Highlights

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- We suggest a new taxonomy of OR literature reviews that distinguishes nine types of reviews.
- We apply the proposed taxonomy to a body of 709 literature reviews published in 38 pertinent OR journals during the period 2011–2020.
- Our findings include that reviews of all types have been published with a strong focus on scoping and selective reviews and that the remaining types have large, yet untapped potentials to synthesize and create novel OR knowledge in different ways.

Literature Reviews in Operations Research: A New Taxonomy and a Meta Review

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ABSTRACT

Literature reviews represent a key genre for preserving and developing knowledge in many scientific fields, including the operations research (OR) discipline. Although the body of OR reviews shows a large diversity in terms of entities investigated, methodologies applied, and contributions developed, our discipline has been rather silent on the genre of literature reviews. As a consequence, the OR field misses (1) a classification of literature reviews, which would allow authors, readers, editors, and reviewers to distinguish various types of reviews, and (2) an overview of the landscape of (the types of) published reviews, which would allow identifying uncharted territories and untapped potentials of reviews. This meta review addresses both issues by suggesting a taxonomy of literature reviews in the OR field and applying the suggested taxonomy to the landscape of OR reviews. The proposed taxonomy distinguishes nine types of OR reviews (*scoping review*, *selective review*, *tutorial review*, *theoretical review*, *algorithmic review*, *computational review*, *meta-analysis*, *qualitative systematic review*, and *meta review*). In our empirical study, we apply the taxonomy to the body of 709 literature reviews published in 38 pertinent OR journals during the period 2011–2020. Our findings and implications include that reviews of all nine types have been published with a strong focus on scoping and selective reviews, and the remaining types of reviews have large, yet untapped potential to synthesize and create novel OR knowledge in different ways. These insights support scholars in specifying their different expectations of, needs for, and contributions of OR reviews.

1. Introduction

Since its inception in the late 1930s, the field of operations research (OR) has seen a substantial increase in the scientific community, resulting in many national and international societies and the active involvement of thousands of scholars (Merigó and Yang, 2017) publishing their research in numerous journals, conference proceedings, books, and other publication outlets. With its interdisciplinary nature, the OR field overlaps with several disciplines, including mathematical sciences, industrial engineering, operations management, economics, computer science, and several more. Unsurprisingly, this wide disciplinary scope has led to a broad diversity of research techniques applied to many application fields, including transportation, logistics and supply chain management, manufacturing, health care, financial engineering, and accounting[1], just to name a few. All these characteristics and developments in the OR field have led to a huge body of scholarly

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[1]Extensive lists of application fields of OR can be retrieved from the INFORMS website (https://www.informs.org/Explore/History-of-O.R.-Excellence/O.R.-Application-Areas), from the websites of numerous OR journals, and in the bibliometric studies of Merigó and Yang (2017) and Gorman (2016), for example.

literature. It is thus not surprising that the (standalone) literature review has become an established genre and plays an important role in the OR discipline (Gorman, 2016), as it does in many other disciplines, including the social sciences, information sciences, health sciences, management, software engineering, and information systems research (Paré et al., 2015).

Literature reviews are considered a genre of epistemological relevance (Schryen, 2015). They preserve knowledge achieved by other researchers, which is essential for enhancing the body of knowledge as it *"help(s) scholars avoid 'reinventing the wheel'"*(Zorn and Campbell, 2006, p. 173) and, thereby, marginalizing their work. In this regard, reviews assist incremental research by building on what other researchers have done. As Baker (2000, p. 219) notes, *"the evolution and creation of new knowledge proceeds generally by a process of accumulation"*. The particular importance of accumulating knowledge has been regarded even an essential condition for a field to "be scientific" and to develop (Hunter et al., 1982, cited in Paré et al., 2015). As Garfield (1987, p. 113) notes, *"it is not an accident that so many of our greatest scientists have used, created, and contributed to the review literature."*

In the OR field, the relevance and prevalence of literature reviews is mirrored in the publication of several hundreds of review articles in pertinent journals. The bibliometric study of Gorman (2016) identified 343 literature reviews published in 34 OR and management science journals during the period 2000–2014; in our study, we found 709 OR reviews published in 38 OR journals in the decade 2011–2020. Some pertinent OR journals, including *Computers & Operations Research*, *European Journal of Operational Research*, *Annals of Operations Research*, and *Transportation Science* even invite submissions of reviews, highlighting the importance of this genre in the OR field. Also, the scientific impact of literature reviews in terms of citations is remarkably high. For example, among the 20 most cited papers (until the end of 2016) published in the *European Journal of Operational Research* at least half of these papers can be classified as reviews (European Journal of Operational Research, 2017). In a bibliometric cross-journal analysis (Merigó and Yang, 2017), the list of the two hundred most cited papers in operations research and management science revealed that 17 papers contain one of the keywords "survey" or "reviews" in their title.

Given the interdisciplinary nature of our field, it is not surprising that our analysis of the body of literature reviews published in OR journals revealed a large diversity in many regards. For example, literature reviews may pursue different goals and provide different types of contributions. While a mandatory contribution of every literature review is a synthesis of the literature in a specified field (Cooper, 1998; Webster and Watson, 2002; Blumberg et al., 2005; Fink, 2010), which is often referred to as the "state of the art", reviews can and are often required by editors and reviewers to go beyond summarizing the body of literature. Many reviews in the OR field have tapped this potential; for example, we find the suggestion of new artifacts in terms of frameworks (Fragapane et al., 2021), unified model representation schemes (Chen, 2010), and classifications (Coelho et al., 2014; Schryen and Hristova, 2014). Literature reviews have also contributed through the identification of research gaps in the literature and the provision of research agendas (Chen, 2010; Schryen and Hristova, 2014; Fragapane et al., 2021), the suggestion of new datasets with challenging realistic problems (Ikli et al., 2021), and the analysis of the tractability of open problems (Chen, 2010). Unsurprisingly, this list of contributions is far from exhaustive. Reviews have turned out to also

differ with regard to the entities of analysis. For example, in Hartmann and Briskorn (2022) the authors restrict themselves to an overview of problem variants and models rather than methods and algorithms while other reviews (e.g., Minella et al., 2008; Fragapane et al., 2021) explicitly include or even focus on methods. Literature reviews may also vary from a methodological perspective. For example, some reviews apply (suggested or already existing) classifications to unfold literature findings (Coelho et al., 2014; Schryen and Hristova, 2014) while others perform mathematical analyses (e.g., Bouyssou and Pirlot, 2015), computational evaluations (e.g., Ikli et al., 2021) and/or statistical testing (e.g., Minella et al., 2008). Even though the abovementioned dimensions in which OR reviews may differ are not comprehensive, they indicate the large diversity of reviews in the OR field.

Literature reviews play an important role in many scientific disciplines and have been widely acknowledged as both a research genre and methodology. Their wide applications to various domains and topics, and their diversity have been studied in numerous disciplines, in particular in information systems research (Webster and Watson, 2002; Schryen, 2010; Rowe, 2014; Paré et al., 2015; Schryen et al., 2017; Budgen et al., 2018; Rios et al., 2018; Delavari et al., 2020; Schryen et al., 2020), management (Tranfield et al., 2003; Zorn and Campbell, 2006; Alvesson and Sandberg, 2011; Cubric, 2020), and in particular supply chain management (Seuring and Gold, 2012; Kache and Seuring, 2014; Hochrein et al., 2015; Durach et al., 2017; Carter and Washispack, 2018; Martins and Pato, 2019; Bai et al., 2021; Barata, 2021; Seuring et al., 2021), organization science (Denyer and Tranfield, 2009; Aguinis et al., 2023), health sciences (Grant and Booth, 2009; Lachkhem et al., 2018; Dijkers et al., 2021; Marsilio and Pisarra, 2021), engineering (Diaz et al., 2020; Kim and Kim, 2021; Lassalle, 2021), software engineering (Kitchenham et al., 2010; Cruzes and Dyba, 2011; Garousi and Mäntylä, 2016; Hoda et al., 2017; Oliveira et al., 2018; Barros-Justo et al., 2019; Curcio et al., 2019), psychology (Baumeister and Leary, 1997; Cooper, 2010; Siddaway et al., 2019), and social sciences (Hart, 1998; Petticrew and Roberts, 2006). Interestingly, the OR field has been quite silent on the study of the genre of literature reviews, on which it has drawn comprehensively for some decades; we found only five studies in the OR field (Glock et al., 2014; Gorman, 2016; Abedinnia et al., 2017; Banomyong et al., 2019; Kovacs and Moshtari, 2019). As a consequence, the OR field misses a classification of literature reviews that would allow authors, readers, editors, and reviewers to distinguish various types of reviews. The OR field also lacks an overview of the landscape of (the types of) published reviews in OR, which would allow identifying uncharted territories and untapped potentials of reviews in the OR field.

This meta review ("meta" in the sense that we review the landscape of reviews) aims at addressing both issues by providing several contributions. (1) We instantiate and apply a generic taxonomy development method suggested in the literature, which uses both conceptual classification knowledge of the literature and empirical data in terms of literature reviews, resulting in a novel taxonomy of OR literature reviews. The proposed taxonomy distinguishes nine types of OR reviews: scoping review, selective review, tutorial review, theoretical review, algorithmic review, computational review, meta-analysis, qualitative systematic review, and meta review. (2) We conduct an empirical study in which we apply the taxonomy to the body of 709 literature reviews published in 38 pertinent OR journals during the period 2011–2020. The analysis of our results reveals that reviews of all nine types have been published with a strong focus on scoping and

selective reviews. (3) The remaining types of reviews have large, yet untapped potential to synthesize and create novel OR knowledge in different ways. These insights support scholars in specifying their different expectations of, needs for, and contributions of OR reviews. To our best knowledge, no prior research has conducted a systematic assessment of review opportunities and practices in our field.

It should be noticed that we exclude the many bibliometric and scientometric studies of the OR field (e.g., Zopounidis et al., 2015; Gorman, 2016; Laengle et al., 2017; Merigó and Yang, 2017; Zhou et al., 2018; Liao et al., 2019; Calma et al., 2021). Although there are indispensable means for reviewing the literature and measuring scientific impact, their quantitative focus on analyzing meta data of prior research differs from our perspective on reviews which perform content analysis. Also, reviews of the former type differ from those of the latter in terms of methodologies applied. For a review of theory and practice in scientometrics, we refer, for example, to the work of Mingers and Leydesdorff (2015).

This article is organized as follows: In the following section, we elaborate on the nature of literature reviews and their role in the OR field in more detail. Then, we develop a taxonomy of OR literature reviews and apply it to review the landscape of OR literature reviews (meta review). We present implications from our meta review for the OR field before we conclude.

2. Background of literature reviews

2.1. The essence of (standalone) literature reviews

Reviewing the literature is a mandatory step in every research project to not reinvent the wheel, acknowledge prior work of scholars, and position one's work in the landscape of research. Results of a reviewing process may either be presented as part of various documents, such as papers reporting a specific research study, project proposals, or theses, or in a document which is dedicated to the presentation of findings from the literature (Schryen et al., 2017). A document of the latter case is usually referred to as a "standalone literature review" or "review article", which is an important type of publication in its own right (Schwarz et al., 2007). In addition, literature reviews do not only constitute a research genre, but undertaking a literature review is an important research method in itself, which does not require less academic rigor than other genres (Green et al., 2001; Okoli and Schabram, 2010; Schryen, 2015). In this article, we focus on standalone literature reviews.

While there seems to be an intuitive understanding of what a (standalone) literature review is, there is no universally accepted definition of the term. For example, a literature review has been described as *"a journal-length article that has an overarching purpose of summarizing or synthesizing the literature in a field without collecting or analyzing any primary data"* (Paré et al., 2015, p. 184), *"a critical summary and assessment of the range of existing materials dealing with knowledge and understanding in a given field"* (Blaxter et al., 2001, p. 110), *"an appropriate summary of previous work [with] an added dimension – your interpretation"* (Blumberg et al., 2005, p. 11), and *"a systematic, explicit and reproducible method for identifying, evaluating and synthesizing the existing body of completed and recorded work produced by researchers, scholars, and practitioners"* (Fink, 2010, p. 3). A collection of various definitions of literature reviews is provided in (Schryen, 2015). Despite the presence of various definitions, scholars across fields

seem to agree that the essence of a literature review is not only to synthesize or summarize findings within a literature but also to interpret these findings in some way.

While the summary or synthesis of the literature and the interpretation of findings is mandatory for every literature review, review articles may differ in terms of how they interpret literature findings and whether and how they go beyond interpretation. Literature reviews may, for example, identify research gaps, provide a research agenda, develop or test a theory, reconcile equivocal results of prior studies, and provide a critical account of prior research (Cooper, 1988; Paré et al., 2015; Gorman, 2016; Schryen et al., 2020).

Literature reviews have an epistemological relevance as they play a central role in the accumulation and development of scientific knowledge (Webster and Watson, 2002). They are backward-oriented as they summarize and synthesize knowledge created in prior research (Webster and Watson, 2002; Brocke et al., 2009). However, they may also have an impact on succeeding research and knowledge enhancements from a forward-oriented perspective (Webster and Watson, 2002; Schryen et al., 2020) when they, for example, identify research gaps (Jennex, 2015; Müller-Bloch and Kranz, 2015), develop a research agenda (Webster and Watson, 2002; Rivard, 2014; Rowe, 2014), or develop new models or theories (LePine and King, 2010; Rowe, 2014). In Schryen et al. (2015), literature reviews are conceptualized as instruments of various types of knowledge conversion, and in Schryen et al. (2020), a knowledge-based typology of literature reviews (in information system research) is suggested. Several more classifications of literature reviews have been suggested in various disciplines; an overview is provided by Paré et al. (2015).

2.2. Literature reviews in Operations Research

Literature reviews have been published for decades in many scholarly publication outlets in the OR field. As mentioned in the introduction of this article, several hundreds of reviews have been published in OR and management science journals, with reviews published in other outlets, such as conference proceedings, books, reports, and theses not even included. Until 2007, a series of literature reviews known as *Handbook of Operations Research* was released, which was then continued as *Surveys in Operations Research and Management Science (SORMS)* (Gorman, 2016). At the end of 2016, SORMS was incorporated into *Computers & Operations Research* via a "Surveys" section. In addition to these coordinated activities of publishing reviews, some special journal issues dedicated to reviews have been published (e.g., Bouyssou et al., 2007; Waller, 2008).

In our search for literature on literature reviews in the OR field, we identified only five studies: The article of Gorman (2016), labeled as a "metasurvey analysis", is a bibliometric study on the broad fields of OR and management science. It identifies 343 literature reviews published in 34 OR and management science journals during the period 2000–2014. The author reveals a strong upward trend in the number of literature reviews each year and a concentration of reviews with the top five most frequent journals (European Journal of Operations Research, International Journal of Production Economics, Annals of Operations Research, Journal of the Operational Research Society, International Journal of Production Research) accounting for over 50% of the articles, and the top 10 (in addition to the abovementioned journals, Computers and Operations Research, Surveys in Operations Research and Management Science, Supply Chain Management Journal, International Journal of Operations Management, Omega) accounting for 76%.

Although the reported landscape of literature reviews shows a large diversity in terms of covered topics, domains, and methodological groups, the author concludes in his topic analysis that "there seems to be some mismatch in what is being published in leading OR/MS [management science] outlets, and what literature is being surveyed and summarized."

A much narrower focus is adopted in the study on machine scheduling problems in production (MSPP) (Abedinnia et al., 2017), which investigates 129 literature reviews (without any temporal focus adopted). The authors evaluate their sample with respect to three types of literature reviews (Cooper, 2010; Hochrein and Glock, 2012; Hochrein et al., 2015): (i) "Narrative reviews" usually do not describe how the sample was developed and/or do not document the literature search process in a systematic way. (ii) "Systematic reviews" employ a reproducible methodology to generate the literature sample. (iii) "Meta-analyses" extract data from a literature sample and analyze the sample using statistical techniques. The authors use a conceptual framework to categorize the identified reviews. Their framework is described as an extension of the 3-field notation of Graham et al. (1979), and it considers seven categories (in terms of dimensions): (1) type of problem, (2) theory of complexity, (3) practical application of scheduling, (4) solution approaches, (5) constraints, (6) objectives, and (7) flow pattern. For each of the categories, dedicated sub-categories are suggested. The categorization of the reviews along the (sub)categories are used to describe the state of knowledge and to unveil deficiencies of literature reviews on MSPP.

In the study of Glock et al. (2014), the authors intend to develop an overview of major streams of research that emerged from the seminal lot size model of Harris (1913) and to identify major advances. For this purpose, they conduct a tertiary study on the lot sizing problem by analyzing a sample of 52 literature reviews in this area (without any temporal focus adopted). The authors use a content-related classification scheme of lot sizing problems to classify their sample of reviews. This scheme distinguishes classical models (two-stage models, multi-stage models, integrated models) and extended models (scheduling, incentives, productivity). The findings of the tertiary study include the following key insights: various extensions of Harris' model have been developed, such as lot sizing models that include scheduling, incentives, or productivity issues; recent research seems to have a special focus on the modeling of complex inventory systems; there seems to be no review that focuses on sustainability or pricing issues in lot sizing; only one review focusing on learning and forgetting in lot sizing could be found; most of the reviews did not use an established methodology for conducting reviews.

The objectives of the study of Banomyong et al. (2019) are the identification of a suitable methodology for conducting a comprehensive literature review and the enablement of the identification of main research themes and clusters obtained from the literature. Based upon the literature of several academic disciplines, Banomyong et al. (2019) distinguish six types of literature reviews: (i) The "argumentative review" (Petticrew and Roberts, 2006) examines the literature selectively to support or refute an argument, a deeply embedded assumption, or a philosophical problem established in the literature. The purpose of the review is the development of a body of literature that establishes a contrarian viewpoint. (ii) The "integrative review" (Torraco, 2005) synthesizes and critiques representative literature on a topic in an integrated way such that novel frameworks and perspectives on the topic are generated. (iii) The "historical review" (Baumeister

and Leary, 1997) focuses on examining research throughout a specific period. (iv) The "methodological review" (Hart, 1998) aims at reviewing methods of analysis applied in the literature and explaining how researchers draw upon a wide variety of knowledge. (v) The "systematic review" (Booth et al., 2016) provides an overview of existing evidence pertinent to a clearly formulated research question. (vi) The "theoretical review" (Rocco and Plakhotnik, 2009) has the purpose to examine the corpus of theory that has accumulated with regard to an issue, concept, theory, or phenomena. Following Hemingway and Brereton (2009), Banomyong et al. (2019) use the domain of humanitarian operations, logistics, and supply chain performance to illustrate five steps when conducting a systematic literature review; they illustrate literature findings along various phases of the investigated domain.

Finally, the study of Kovacs and Moshtari (2019) analyzes 43 literature reviews on the field of humanitarian operations which have been published in the operations management and operation research disciplines. In order to enhance the rigor and relevance of future studies, the authors focus on the methodological concerns of studies on humanitarian operations as they have been identified in previous reviews. These concerns include problem definition and research design, understanding contextual factors, acknowledging uncertainties, choosing the appropriate data and research methods, incorporating uncertainty in the research, and use of enabling technologies for model development and implementation. Kovacs and Moshtari (2019) suggest a meta-process for research on humanitarian operations and elaborate on the values of using mixed methods and combining empirical methods with analytical methods.

As a consequence of the scarcity of literature on literature reviews in the OR field, not much is known about this landscape and its diversity. Our analysis of the OR literature revealed that the reviews in our field are not limited to analyzing topics or specific problems but exhibit a rich set of entities that have been investigated, including application fields, models and theoretical properties, systems, concepts, theories, methods and algorithms, and more; Table 1 provides an overview of typical entities. This diversity of reviews in our field calls for a more detailed investigation of literature reviews in OR.

Table 1: Typical entities of literature reviews in OR.

Entities	Sample literature reviews
Application fields	*A survey on risk-averse and robust revenue management* (Goensch, 2017) *OR in spare parts management: A review* (Hu et al., 2018) *A review of trade credit literature: Opportunities for research in operations* (Seifert et al., 2013)
Interfaces with other disciplines	*Operational research and ethics: A literature review* (Ormerod and Ulrich, 2013) *Information technology and systems justification: A review for research and applications* (Gunasekaran et al., 2006)
Problem and problem variants	*A survey on the continuous nonlinear resource allocation problem* (Patriksson, 2008) *A survey of variants and extensions of the location-routing problem* (Drexl and Schneider, 2015)

Typical entities of literature reviews in OR. (cont'd)

Entities	Sample literature reviews
Models and theoretical properties	*Duality in fuzzy linear programming: a survey* (Schryen and Hristova, 2014) *On some graph classes related to perfect graphs: A survey* (Bonomo-Braberman et al., 2020) *Review of properties of different precedence graphs for scheduling problems* (Blazewicz and Kobler, 2002) *Structural results on circular-arc graphs and circle graphs: A survey and the main open problems* (Duran et al., 2014) *Coding for a multiple access OR channel: A survey* (Gyori, 2008)
Systems	*A survey of literature on automated storage and retrieval systems* (Roodbergen and Vis, 2009) *Self-healing systems - survey and synthesis* (Ghosh et al., 2007)
Concepts	*Robustness for uncertain multi-objective optimization: a survey and analysis of different concepts* (Ide and Schoebel, 2016)
Problem formulations and solution frameworks	*Service network design for freight transportation: a review* (Wieberneit, 2008)
Theories	*Splitting up value: A critical review of residual income theories* (Magni, 2009)
Problem structuring methods	*The characteristics of problem structuring methods: A literature review* (Smith and Shaw, 2019)
Solution techniques	*Survey of methods to visualize alternatives in multiple criteria decision making problems* (Miettinen, 2014) *Sensitivity analysis: A review of recent advances* (Borgonovo and Plischke, 2016)
Methods and algorithms	*State-of-the art review – Evolutionary algorithms for vehicle routing* (Potvin, 2009) *A survey of very large-scale neighborhood search techniques* (Ahuja et al., 2002) *ELECTRE: A comprehensive literature review on methodologies and applications* (Govindan and Jepsen, 2016) *PROMETHEE: A comprehensive literature review on methodologies and applications* (Behzadian et al., 2010) *The Benders decomposition algorithm: A literature review* (Rahmaniani et al., 2017)
Applications and implementations of methods and algorithms	*A survey of data envelopment analysis applications in the insurance industry 1993-2018* (Kaffash et al., 2020) *Integrated analytic hierarchy process and its applications - A literature review* (Ho, 2008)

3. A taxonomy of OR literature reviews

3.1. Development process

The process of developing a classification can follow different approaches. A distinction acknowledged across various scientific disciplines distinguishes three levels of developments (Bailey, 1984, 1994): (1) At the conceptual level, the researcher starts with a conceptual or theoretical foundation and then derives the

classification, referred to as *typology*, through deduction. Then, the typology contains types that are based on a theoretical ideal or model and which are later used to examine empirical cases in terms of how much they deviate from the ideal (Nickerson et al., 2013). (2) At the empirical level, the researcher begins with data and derives the classification, referred to as *taxonomy*, empirically or inductively using quantitative methods, such as cluster analysis and other statistical methods. Then, the goal is to identify similarities among the data and to classify similar objects into the same category (Nickerson et al., 2013). (3) At the *indicator* or *operational* level, the researcher adopts a hybrid approach by either starting with a conceptual approach and then examining empirical cases (conceptual to empirical) or by beginning with empirical data clusters and then deductively conceptualizing the nature of each cluster (empirical to conceptual) (Nickerson et al., 2013). The indicator level has been extended in Nickerson et al. (2013), which suggests applying several iterations of the empirical to conceptual or the conceptual to empirical approach in a manner that allows iteratively applying any of the two approaches. This method follows the design science *generate/test cycle* proposed in Hevner et al. (2004). Although not explicitly mentioned in Nickerson et al. (2013), the proposed method provides for another extension: while the empirical approach in Bailey (1994) is based upon quantitative methods, the extended method also includes the informal use of a manual or graphical process.

Our approach to developing a classification instantiates the generic *taxonomy development method* of Nickerson et al. (2013)[2], exploiting its flexibility to incrementally develop a classification of OR literature reviews and integrate the usage of both conceptual classification knowledge of the literature and empirical data in terms of literature reviews into this process. Accounting for how the authors named their method, we refer to our classification as a *taxonomy*. The process of instantiation refers to the particular ways in which the (generic) components of the method are implemented and combined. A first initializing step (cmp. Figure 6 in Appendix A.1) involves the determination of the *meta-characteristic* of the taxonomy to be developed, which should be based on the purpose of the taxonomy. In our case, the purpose of the (literature review) taxonomy is the distinction of literature reviews in OR according to their research paradigm, methodologies, and reviewed literature sources (cmp. Section 2.1). As a second initializing step, (subjective and objective) ending conditions need to be defined, which are evaluated after each iteration to determine when to terminate the taxonomy development process. As subjective ending conditions, we decided to assess the current taxonomy in terms of whether we consider it to be *concise*[3], *robust*[4], *comprehensive*[5], and *extendable*[6]. Objective ending conditions applied include the assessment of whether a representative sample of a set of OR literature reviews has been examined, no new dimensions or characteristics were added in the last iteration, and no dimensions or characteristics were merged or split in the last iteration. We jointly applied the subjective and objective conditions after each iteration in the logical "and" sense. In the first iteration,

[2]A graphical representation of the method is displayed in Figure 6 in Appendix A.1. The method of Nickerson et al. (2013) can be considered to be established and has been used by many researchers; at the same time, we acknowledge that research on taxonomy building is still continued (e.g., Kundisch et al., 2021).

[3]Does the number of dimensions allow the taxonomy to be meaningful without being unwieldy or overwhelming?

[4]Do the dimensions and characteristics provide for differentiation among reviews sufficient to be of interest? Given the characteristics of reviews, what can we say about the reviews?

[5]Can all reviews of the current sample be classified? Are all dimensions of the reviews of interest identified?

[6]Can a new dimension or a new characteristic of an existing dimension be easily added?

we started with a conceptual to empirical approach, drawing on the sophisticated typology[7] suggested in Paré et al. (2015). We consider this classification particularly useful as it is based on a comprehensive analysis of the literature (on review classifications) in multiple scientific disciplines. More specifically, the authors extracted from the literature a set of recurrent first-order constructs (dimensions) most often used to distinguish between review types, including sources from the health sciences, nursing, education, library and information sciences, management, software engineering, and information systems. However, as this typology was developed for the information systems discipline, it still needs to be adapted to fit the needs of the OR discipline so that it can serve as an excellent starting point for the development of an OR-specific taxonomy of literature reviews.

In the remainder of the iterative process, we collected one sample of literature reviews per iteration and updated the current taxonomy (starting with the abovementioned classification) by examining the characteristics and dimensions of the sample reviews; except the first iteration, which followed a conceptual to empirical approach, all other iterations followed the empirical to conceptual approach. Each sample was generated by randomly collecting literature reviews of an iteration-specific OR journal. Applying the abovementioned ending conditions, we terminated the taxonomy development process after considering review samples from 19 top-ranked journals (see Table 6 in Appendix A.3), including journals that cover a broad range of OR topics as well as journals which are focused on, for example, particular application fields or mathematics. As period, we used two decades (2000–2020).[8] Overall, we analyzed 60 literature reviews; a list of the reviews is provided in Table 6 in Appendix A.3.

As a result of the abovementioned procedure, we derive the taxonomy for OR literature reviews which is described in the following subsection.

3.2. Types of literature reviews

The application of the taxonomy development process described in the preceding subsection led to several dimensions (first-order constructs) of literature reviews in the OR field which we use to define and distinguish various review types. Table 2 provides an overview of these dimensions and possible values (characteristics) of each dimension. First, reviews can be described in terms of their *overarching goal* they pursue. While there is consensus in the literature that *summarizing prior knowledge* is a mandatory contribution of each review, some reviews focus on synthesizing and interpreting prior knowledge, often implemented through the identification of research gaps and the resulting suggestion of research avenues. The synthesis and interpretation of knowledge produced in a defined body of literature is a valuable contribution on its own, providing a condensed summary or introduction into a field which is appreciated by many scholars who seek to efficiently gain an overview of the state of the art in a field or a starting point for their research. Synthesizing reviews are also often an invaluable means for undergraduate, graduate, and doctoral students when they look for entry points into the large body of literature in their fields of study. However, literature reviews (not only in OR) can go beyond synthesizing prior knowledge by drawing on this synthesis to additionally *create new knowledge*. This development may result in different “artifacts",

[7] The authors derive their classification following a conceptual approach, thus referring to it as a *typology*

[8] We decided to use a longer period than that applied in our empirical meta-analysis (2011–2020) to also trace those classes of literature reviews which might have been neglected in the past decade.

including (mathematical) theorems, models, classifications, algorithms, etc. An overview of the diversity of artifacts that have been developed in OR reviews is presented in Section 2.2. Finally, literature reviews may pursue as the primary goal the *aggregation or integration of knowledge*. While aggregative synthesis involves the combination of results from homogeneous primary studies, integrative synthesis refers to the collection and comparison of evidence that involve two or more data collection methods (Rousseau et al., 2008).

A second dimension in which OR reviews may differ is the *type of (literature) analysis*. We distinguish (1) *descriptive* analysis which investigates and maps the literature, (2) *prescriptive* analysis which provides normative recommendations for future research based on literature findings, (3) *explanatory* analysis which aims at identifying causal relationships between constructs based on empirical insight provided in the literature, (4) *constructive* analysis which develops new knowledge based on existing knowledge in the literature, and (5) *exploratory* analysis which looks at (explores) issues and problems that are entirely or largely uncharted in the literature.

Reviews may address different *scopes of questions* as another dimension. While some reviews address a *broad* set of problems and issues, for example, to chart the territory in an application domain, such as logistics and revenue management, others focus on a *narrow* set of issues, for example, by reviewing research results on one specific scheduling problem. A further dimension in which literature reviews may differ is the *strategy for searching* the literature. When reviews aim at covering the literature of the area under investigation as broadly as possible, we refer to this strategy as *comprehensive*. In contrast, other reviews limit their search in one or more regards, for example, by focusing on a specific period or/and a particular set of publication outlets; we label such a strategy as *selective*. How reviews search the literature may also differ in terms of which kind of research is covered. The targeted *nature of primary sources* may be, in particular, *theoretical*, *algorithmic*, *computational*, *empirical*, *reviewing*, or combinations thereof. Finally, literature reviews apply different *methods for synthesizing, analyzing, and developing knowledge*. We found reviews which adopt *concept-based*, *narrative*, *mathematical*, *algorithmic*, *computational*, and *statistical* approaches.

Based on the dimensions and their characteristics described above, we now present a taxonomy of OR literature reviews, which resulted from the taxonomy development process described in Section 3.1 and is shown in Table 3. The derived taxonomy consists of nine types[9] of OR literature reviews. These types are constituted by unique combinations of characteristics of the abovementioned dimensions (see Table 2). However, it should be noted that these types of literature reviews are ideal-typical and that a published literature review may be assigned to more than one type; i.e., from an empirical perspective, review types are not mutually exclusive. We now describe the types of literature reviews grouped by their overarching goal. Table 4 illustrates how each review type was applied within the extant OR literature.

A first type of literature review is a **scoping review**, which aims at synthesizing the extant literature on a particular topic of interest to provide the readers with a broad and comprehensive background for understanding the current state of knowledge in that area. These reviews map the territory with little or

[9]Taxonomic units are usually referred to as "taxa", while typology units are labeled as "types". However, as (1) our classification has been essentially derived from a hybrid procedure, which includes elements of both taxonomy and typology building, and (2) the notion "type" is much more common than the term "taxon", we decided to use the former notion.

Table 2
Dimensions and characteristics of literature reviews in Operations Research

Dimension	Characteristics
Overarching goal	Summarization of prior knowledge, development of new knowledge, aggregation, and/or integration of knowledge
Type of analysis	Descriptive, prescriptive, constructive, exploratory, explanatory
Scope of questions	Broad, narrow
Search strategy	Comprehensive, selective
Nature of primary sources	Theoretical, algorithmic, computational, reviews, empirical, reviewing
Methods for synthesizing, analyzing, and developing knowledge	Concept-based, narrative, mathematical, algorithmic, computational, statistical

no contribution to new models, algorithms, and theory (cmp. Rowe, 2014, p. 243f); they are primarily descriptive. Researchers usually conduct such a review to examine the extent, range, and nature of research activities (Paré et al., 2015), identify research gaps in the extant literature (e.g., Visentini et al., 2014), and/or suggest research directions (e.g., Mou et al., 2018). Thereby, these reviews address a broad scope of questions covering the literature comprehensively. The nature of sources is not limited to any specific type and includes theoretical, algorithmic, and computational research articles, among others. The presentation and analysis of findings in *scoping reviews* are usually organized along concepts, such as models, frameworks, themes, and theories. Such concepts may either be self-developed (e.g., Fragapane et al., 2021) or taken from the literature (e.g., Stahlbock and Voss, 2008).

A second type of literature review that primarily summarizes prior knowledge is the **selective review**. In contrast to *scoping reviews*, *selective reviews* do not strive for drawing a comprehensive picture of an area; they rather focus on selected parts of the literature, for example, in terms of journals, periods, methods, and specific (parts of) problems, to dive deeper into specific questions and phenomena. We found reviews that limit their analysis to a ten-year period (Qu et al., 2009), to one specific journal (Keskinocak and Savva, 2020), to specific problems addressed by online algorithms (Albers, 2003) and by reinforcement learning for combinatorial optimization (Mazyavkina et al., 2021), to the structure of precedence constraints in scheduling problems (Prot and Bellenguez-Morineau, 2018), and to certain variants and subclasses of perfect graphs (Bonomo-Braberman et al., 2020). As *scoping reviews*, *selective reviews* are descriptive and apply a concept-based analysis for synthesizing the literature. But *selective reviews* also differ in several regards from *scoping reviews*. Often, there is no attempt to seek generalization from what is reviewed and the scope of questions is usually narrow. *Selective reviews* are usually selective in that they do not involve a comprehensive search of all of the relevant literature; however, the nature of primary sources covered is not necessarily limited to specific types.

A third type of review is the **tutorial review**, which focuses on summarizing prior knowledge. The primary purpose of such reviews is the provision of a research-oriented overview of principles, mathematical foundations, concepts, etc. to guide and stimulate further research. Their focus on foundations often serves as an appropriate starting point for research developments. *Tutorial reviews* should not be confused with tutorials and textbooks for students. In their *tutorial review* of techniques for treating missing data in operations management survey research, Tsikriktsis (2005, p. 53) unfold this subtle yet important difference: *"The purpose of this article is to familiarize empirical* [*operational management*] *researchers with the key issues of dealing with missing data in their research. Its main goal is not to provide a step-by-step guide of how to use each technique, but instead, to provide a review of techniques for treating missing data for those OM researchers who are not very familiar with them."* Although *tutorial reviews* are not identical to a textbook-like presentation of how to apply models and techniques, they often go beyond a pure description of foundations by recommending how research should be conducted, thereby providing prescriptive contributions. For example, in their *tutorial review* on experiments, Lonati et al. (2018) unfold how experiments should be done to ensure not only rigor but also relevance. *Tutorial reviews* may also address the need of students who wish to pursue research projects (Bradley, 2015). *Tutorial reviews* usually have a broad scope of issues in research but apply a selective literature search. While many *tutorial reviews* draw on theoretical, methodological, and/or algorithmic literature sources, they do not necessarily have these limitations. For example, Lonati et al. (2018) include a representative sample of 468 experimental studies. The presentation of literature findings is sometimes structured along concepts, such as problems (Gosavi, 2009) and methodological issues (Lonati et al., 2018), but it can also follow a more narrative summary with specific foci set by the author(s) (Arora, 2003).

While the abovementioned types of literature reviews all focus on the summarization of prior knowledge, we now approach a group of review types that go beyond merely assembling and describing past work. The primary contribution of reviews belonging to this group of review types lies in their ability to develop novel knowledge. Depending on the particular form of developed knowledge, we distinguish several types of knowledge-developing reviews.

When a literature review synthesizes the literature and uses the synthesis to develop new theoretical knowledge, we refer to it as a **theoretical review**. The specific form of a theoretical contribution varies and may include the development of theorems (Chen, 2010), models and properties (Bouzaiene-Ayari et al., 2001; Fertin and Raspaud, 2004), insights on computational complexity (Bentert et al., 2019), and axiomatic characterizations (Bouyssou and Pirlot, 2015). Developing new theoretical insights, *theoretical reviews* are constructive. The scope of questions in terms of theoretical issues addressed may be broad or narrow while the literature search strategy may be selective or comprehensive, focusing on theoretical papers. The predominant methodology for synthesizing previous results and developing new results is a mathematical analysis drawing on theorems, propositions, lemmas, etc.

A second type of knowledge development occurs in an **algorithmic review**, which focuses on algorithmic developments in the literature and additionally contributes with the construction of algorithms and algorithmic frameworks. Depending on the set of problems addressed by algorithms, the scope of questions

may be either broad or narrow. Similar to *theoretical reviews*, the literature search strategy may be selective or comprehensive, but reviewed literature sources can be of theoretical and algorithmic nature. The analysis of algorithms usually adopts a mathematical and/or algorithmic analysis. Some *algorithmic reviews* also have a computational component included; for example, Tsui et al. (2012) conduct a Monte Carlo simulation to investigate the statistical performance of developed algorithms. However, the focus of algorithmic reviews does not lie on the computational analysis of algorithms proposed in the literature. This focus is adopted in the review type described below.

A third type of knowledge development is dedicated to insight based on computational experiments. A **computational review** explores algorithms and/or parameterizations suggested in the literature using implementations and computational studies. Often, the performance of algorithms and parameterizations is compared based on benchmark instances (e.g., Ikli et al., 2021). Metrics of computational evaluations may be targeted to measuring effectiveness (in terms of the quality of solutions), efficiency (in terms of computation times required), and various forms of robustness. The literature search strategy may be selective or comprehensive, with the reviewed literature sources being of algorithmic or computational nature. From a methodological perspective, the predominant method is computational analysis.

Another group of review types follows the overarching goal of aggregating or integrating knowledge. While aggregative synthesis involves the combination of results from homogenous primary studies, integrative synthesis involves the collection and comparison of evidence that involves two or more data collection methods (Rousseau et al., 2008).

The first type of review which aggregates (empirical) knowledge is a **meta-analysis**, which uses data extraction techniques and statistical methods to aggregate quantitative data drawing on standard effect measures from two or more functionally similar studies, taking into account the relative sample size of each study (King and He, 2005; Paré et al., 2015; Deeks et al., 2019). *Meta-analyses* are able to determine more precise estimates of effects than those derived from the individual studies (Rosenthal and DiMatteo, 2001; King and He, 2005; Paré et al., 2015). This review type is widely deployed in many other scientific disciplines but can also be found in the OR literature. Investigating quantitative effects between empirical variables, a *meta-analysis* ultimately seeks to explain phenomena. The scope of questions is closely related to the relationship between empirical variables, thereby limiting the scope of questions to a narrow scope. *Meta-analyses* involve a comprehensive search of the empirical, quantitative literature.

A **qualitative systematic review** attempts to search, identify, select, appraise, and abstract data from quantitative empirical studies. They resemble *meta-analyses* concerning their explanatory nature, the narrow scope of questions, and the approach to cover the literature. However, in contrast to *meta-analyses*, they do not apply statistical methods but rather draw on narrative and more subjective methods to bring together the findings of the included studies (Paré et al., 2015).

A final review type is the **meta review**, which has also been labeled as "umbrella review", "overview of systematic reviews", "systematic review of systematic reviews", and "tertiary study" (Thomson et al., 2010). Its primary purpose is to provide a descriptive overview of literature reviews and may, thus, be described as a tertiary type of study that integrates evidence from multiple reviews (qualitative or quantitative) into one

accessible and usable document (Becker and Oxman, 2008; Smith et al., 2011; Paré et al., 2015). In contrast to the aforementioned references, we argue that their applicability is not limited to addressing a narrow research question but argue that *meta reviews* may also target a broad scope of questions. For example, this article itself represents a *meta review* with a broad focus on research issues. *Meta reviews* strive for comprehensiveness in their literature search and aggregate findings of literature reviews in a narrative synthesis.

Table 3: Taxonomy of literature reviews in Operations Research

Overarching goal	Review type	Type of analysis	Scope of questions	Search strategy	Nature of primary sources	Methods for synthesizing/ analyzing findings
Summarization of prior knowledge	Scoping review	Descriptive	Broad	Comprehensive	All	Concept-based
	Selective review	Descriptive	Narrow	Selective	All or specific	Concept-based
	Tutorial review	Descriptive, prescriptive	Broad	Selective	All or specific	Narrative or concept-based
Development of new knowledge	Theoretical review	Constructive	Broad or narrow	Comprehensive or selective	Theoretical	Mathematical
	Algorithmic review	Constructive	Broad or narrow	Comprehensive or selective	Theoretical and algorithmic	Mathematical, algorithmic and/or computational
	Computational review	Exploratory	Broad or narrow	Comprehensive or selective	Algorithmic and computational	Computational
Aggregation or integration of knowledge	Meta-analysis	Explanatory	Narrow	Comprehensive	Empirical (quantitative only)	Statistical (meta-analytic techniques)
	Qualitative systematic review	Explanatory	Narrow	Comprehensive	Empirical (quantitative only)	Narrative
	Meta review	Descriptive	Broad	Comprehensive	Literature reviews	Narrative

Table 4: Examples of literature review types

Review type	Illustration
Scoping review	Guastaroba et al. (2016) conduct a *scoping review* on the operations research literature on freight transportation planning problems within tactical level decisions. The primary purpose of their paper is to present a state-of-the-art review of the main contributions. The authors identify three classes of problems with intermediate facilities: vehicle routing problems, transshipment problems, and service network design problems. For each class of problems, they provide an overview of the main problem variants and survey the methods used for their solution. The authors also indicate open research directions. Beach et al. (2000) argue that a comprehensive understanding of manufacturing flexibility in operations management remains elusive. They conduct an extensive review of the literature to examine the issues surrounding the concept of manufacturing flexibility, and they structure their synthesis along the use of manufacturing flexibility as a strategic objective, the relationship flexibility has with environmental uncertainty, the use of taxonomies as a vehicle for furthering understanding of the types of flexibility, the nature of flexibility, and its measurement. Through this process of synthesis, the paper attempts to establish the extent to which knowledge of manufacturing flexibility has now progressed. Suggestions for future research topics in flexibility are also presented.
Selective review	Keskinocak and Savva (2020) review the healthcare management (modeling) literature published in the journal *Manufacturing & Service Operations Management*. As the authors note (p. 60), *" the goal of this review is to celebrate the knowledge generated by M&SOM since its inception 20 years ago in this area and to briefly reflect on opportunities for future research. The focus is exclusively on modeling work;* […]*"*. The authors structure their synthesis along the themes of clinic operations management, hospital operations management, blood collection and inventory management, ambulance service operations, pharmaceutical industry operations, healthcare system operations, and medical decision-making. Finally, the authors reflect on opportunities for further research. Bonomo-Braberman et al. (2020) survey certain variants and subclasses of perfect graphs defined using min-max relations of other graph parameters; namely: clique-perfect, coordinated, and neighborhood-perfect graphs. They show the connection between graph classes and both hypergraph theory, the clique graph operator, and some other graph classes, and they review different partial characterizations of them by forbidden induced subgraphs. The authors also present the main open problems.

Table 4: Examples of literature review types (cont'd)

Review type	Illustration
Tutorial review	Lonati et al. (2018) provide a *tutorial review* on how to conduct relevant and rigorous experiments. Their methodological guidelines, condensed in "ten commandments" of experimental research, are tailored to the needs of operations management scholars. The authors structure their review along methodological issues, in particular internal and external validity issues, experimental practices, and quasi-experimental techniques. Interestingly, the authors incorporate in their review an empirical literature analysis using a sample of 468 recent experiments from 258 articles published in top-tier journals and focusing on three fields, management, social psychology, and economics. In the *tutorial review* on reinforcement learning, Gosavi (2009) discusses the main ideas in reinforcement learning, with special attention to the underlying mathematical principles. The author also describes a few important algorithms along with pointers to some case studies, and the author points to more than 100 references from the existing literature, hoping that new ideas for research will be stimulated. The review is structured along various types of problems, including Markov decision problems, semi-Markov decision problems, stochastic games, and several more.
Theoretical review	Chen (2010) composes a *theoretical review* in which the author provides a survey of integrated scheduling models of production and outbound distribution, presents a unified model representation scheme, classifies existing models into several different classes, and gives for each class of the models an overview of the optimality properties, computational tractability, and solution algorithms for the various problems studied in the literature. The author also clarifies the tractability of some open problems left in the literature and some new problems by providing intractability proofs or polynomial-time exact algorithms. New results are condensed in theorems, corollaries, and lemmas. Finally, the author identifies several problem areas and issues for future research. Bouyssou and Pirlot (2015) review the various kinds of axiomatizations of outranking relations, such as those produced by the Electre I or II or the Tactic methods, proposed so far in the literature. The authors analyze the relationships between reflexive and asymmetric outranking relations in a conjoint measurement framework, consolidating their previous work. Making a step further, they provide a common axiomatic characterization for both types of relations.

Table 4: Examples of literature review types (cont'd)

Review type	Illustration
Algorithmic review	Tsui et al. (2012) address likelihood-based charting methods. The authors review two likelihood ratio (LR) methods for temporal surveillance assuming independent data, namely, CUSUM and Shiryayev–Roberts procedures. As a stepping-stone for spatiotemporal surveillance, they also propose four LR methods for spatial surveillance, which are based on hypothesis testing methods with special alternative hypotheses. The statistical performance of these hypothesis testing procedures is compared using a Monte Carlo simulation. The authors further discuss eight alternative surveillance methods for the spatiotemporal case under independence assumptions and provide an example based on male thyroid cancer data for New Mexico between 1973 and 2006 to illustrate the detection of emerging clusters. Lust and Teghem (2012) focus on metaheuristics for multiobjective extensions of the knapsack problem and its multidimensional version. The authors describe and classify existing works and propose an adaptation of the two-phase Pareto local search, which makes use of a very large-scale neighborhood, to solve the multiobjective extension of the multidimensional knapsack problem. Computational experiments are conducted to compare results achieved with their method with state-of-the-art results.
Computational review	In their *computational review*, Ikli et al. (2021) present a review of the most relevant techniques in the recent literature on the aircraft runway scheduling problem, including exact approaches such as mixed-integer programming and dynamic programming, metaheuristics, and novel approaches based on reinforcement learning. Via a comparative study, the authors show how benchmark instances used in the literature are no longer challenging for current versions of solvers because they can be solved optimally in reasonable computation times. Therefore, they provide new data sets of challenging realistic problems constructed from real-world air traffic. Minella et al. (2008) compile a *computational review* of methods for solving multiobjective flowshop problems. The authors strive for comprehensiveness and consider articles about lexicographical, goal programming, objective weighting, and Pareto approaches. The authors computationally evaluate exact, heuristic, and metaheuristic methods. A total of 23 different algorithms have been tested under three different two-criteria combinations with a comprehensive benchmark. All methods have been studied under recent state-of-the-art quality measures. Parametric and nonparametric statistical testing is employed to support the observed performance of the compared methods. As a result, the authors identify the best-performing methods from the literature, which along with the review, constitutes a reference work for further research.

Table 4: Examples of literature review types (cont'd)

Review type	Illustration
Meta-analysis	Chen et al. (2010) conduct a *meta-analysis* to understand antecedents of new product development (NPD) speed. Their *meta-analysis* assesses the generalizability of the relationships between NPD speed and 17 of its antecedents to provide a better understanding of the salient and cross-situationally consistent factors that affect NPD speed. They group the antecedents into four categories of strategy, project, process, and team, and found that process and team characteristics are more generalizable and cross-situationally consistent determinants of NPD speed than strategy and project characteristics. They also conduct subgroup analyses and found that research method variables, such as level of analysis, source of data, and measurement of speed, moderate the relationships between NPD speed and its antecedents. Wang et al. (2018) perform a *meta-analysis* on servitization as a means for manufacturers to achieve superior performance. As the servitization-performance relationship is controversial since prior empirical studies have provided inconsistent and even contradictory results, the purpose of their review is to provide a quantitative review of the servitization-performance relationship based on research findings reported in the extant literature. Studies from 41 peer-reviewed journal articles are sampled and analyzed. A meta-analytic approach is adopted to conduct a quantitative review of the relationship between servitization and firm performance. The results confirm a positive servitization-performance relationship. In addition, the results reveal that the observed servitization-performance relationship is influenced by the operationalization of constructs (servitization and performance) and control variables (industry and region).
Qualitative systematic review	Vokurka and O'Leary-Kelly (2000) analyze the empirical research about manufacturing flexibility. They present a comprehensive contingency-based framework for examining the content-related issues involving the relationships and variables included in past studies. They also examine several important research design/methodology issues (e.g., sampling, data collection, and measurement) and propose solutions to some identified problems. Zhang et al. (2011) review and classify survey-based research connecting information and communication technology (ICT), supply chain management (SCM), and supply chain (SC) performance. The review evaluates present empirical results and aims at detecting explanations for similarities and differences in reported findings in the current literature. The paper aims at reviewing the survey-based literature only; findings from case studies and other types of studies are not considered. The point of departure in this paper is the possible inconsistency in reported findings within this field of research. The paper finds that measurements and constructs in all three major variables (ICT, SCM, SC performance) are different and often incomparable, and contextual factors are not systematically considered. Surprisingly, despite these differences, the papers reviewed show that generally, there is a positive direct or indirect effect of ICT on performance and SCM.

Table 4: Examples of literature review types (cont'd)

Review type	Illustration
Meta review	The *meta review* of Kovacs and Moshtari (2019) provides a survey of 43 literature reviews on disaster management and humanitarian operations published from 2006 to 2018. It also points out research gaps in this field and suggests a meta-process for research on humanitarian operations. This article itself represents a meta-review.

4. Applying the taxonomy to the Operations Research literature

4.1. Search for literature reviews

Searching and evaluating the OR literature for reviews is challenging when pursuing the two conflicting goals of generating "representative" results and keeping the manual efforts of the content-based coding of reviews manageable. First, we decided to limit the temporal scope of our search to the period from 2011 through 2020 in favor of widening the scope of publication outlets. One consequence is that our results refer to this decade only and do not necessarily reflect the publication landscape of prior periods. However, as we are particularly interested in the most recent research, we leave it to future research endeavors to analyze other periods and to identify changes in the review publication landscape that occurred over time. Second, we focused on a basket of 44 OR journals. It is challenging, if not impossible, to sharply identify all those journals which are considered OR journals for several reasons: (1) Scholars may not be consistent when looking for such a binary classification. (2) Disagreements may be fostered by the strongly interdisciplinary nature of the OR field. (3) Another source of potential disagreements lies in the adopted (journal) level. A particular journal, especially one that covers interfaces between OR and other disciplines, may publish articles that are most consistently considered to be OR articles while other articles may be classified as OR papers quite inconsistently.

Thus, we decided to draw on a classification of journals which is based on a survey with more than 1,100 scholars (VHB, 2014); we argue that this classification represents a sufficiently high level of scholarly agreement about which journals can be considered OR journals. This classification is also a rating, which distinguishes five classes of journal reputation (A+, A, B, C, D; in descending order of reputation). We considered all journals of the top three classes, excluding two journals, *Management Information Systems Quarterly* and *Information Systems Research*, which we do not consider to be typical OR journals. In addition to considering journals of the abovementioned ranking, we also included journals listed by several international OR communities, namely *IFORS*, *EURO*, *INFORMS*, and *The OR Society*. The resulting list of 44 OR journals is shown in Table 7 in Appendix A.2. We acknowledge that literature reviews have also been published in outlets other than journals, such as conference proceedings, books, and reports. However, to keep the efforts manageable, we excluded those types of outlets from our search.

We conducted a title search for these journals in the *Web of Science* literature database, using the keywords "review", "overview", "year*", "survey", "meta analysis", and "meta-analysis". For one journal,

namely *INFORMS Journal on Optimization*, which is not covered by this database, we applied the title search using *Google Scholar*. Overall, we yielded a (first) set of 846 articles.

In addition to applying the described title search, we also conducted a review search for the abovementioned journals by applying the *Review Articles* quick filter available on *Web of Science*. Overall, we obtained a second set of 712 articles.

Consolidating the two sets of articles, we removed 484 duplicates and 21 articles published in 2021, yielding a list of 1053 review candidates. Then, we manually analyzed each of the candidates, adopting the following procedure: First, based on reading the title and abstract, we removed 183 papers that are clearly not literature reviews (e.g., those articles addressing "online reviews" and "periodic reviews"). Second, we conducted a more detailed examination of those articles which remained unclear regarding their classification as literature reviews, resulting in a removal of 161 articles. Overall, we obtained a final sample of 709 OR literature reviews. The complete list of references of our sample is available in Table 12 in the Online Appendix B.

4.2. Coding process

The coding of literature reviews in terms of assigning them to one or several types of reviews[10] was implemented by two student helpers (the coders). In order to ensure a high-quality coding process, the authors explained and discussed the developed taxonomy, including the demonstration of coding a sample of literature reviews. In addition, we developed a coding scheme that provides guidance for classifying reviews in terms of their review type(s).

In a multi-stage test coding phase, the coders and one author classified a first set of 30 reviews, where each coder worked independently. The inter-coder reliability, measured with Fleiss' kappa, amounted to 0.53, which reflects only moderate agreement. Thus, the coding of the first set of reviews was discussed. In the second stage, a set of 30 other reviews was coded by the two coders and one author, resulting in a Fleiss' kappa value of 0.66 (substantial agreement).

Finally, in the actual coding phase, the body of 709 reviews was divided approximately equally among the two coders. The coders were asked to consult the authors in case of questions, which were then resolved jointly.

4.3. Results

The distribution of our full sample of 709 literature reviews according to the publication year and review type can be retrieved from Figures 1 and 2, with the former showing absolute frequencies and the latter one displaying relative frequencies; the absolute and relative frequencies are included in Tables 9 and 10, respectively, in Appendix A. Apparently, the total number of published review articles has monotonically increased during the observed period years. In each year, *scoping* and *selective reviews* "strongly dominate" the landscape of OR reviews, with their aggregated ratios having even increased since 2018. Our numerical results also show that an increase of the relative frequency of one of these review types correlates with the decrease of the other type.

[10] A particular review might share characteristics that belong to more than one review type (Cooper, 1988; Paré et al., 2015).

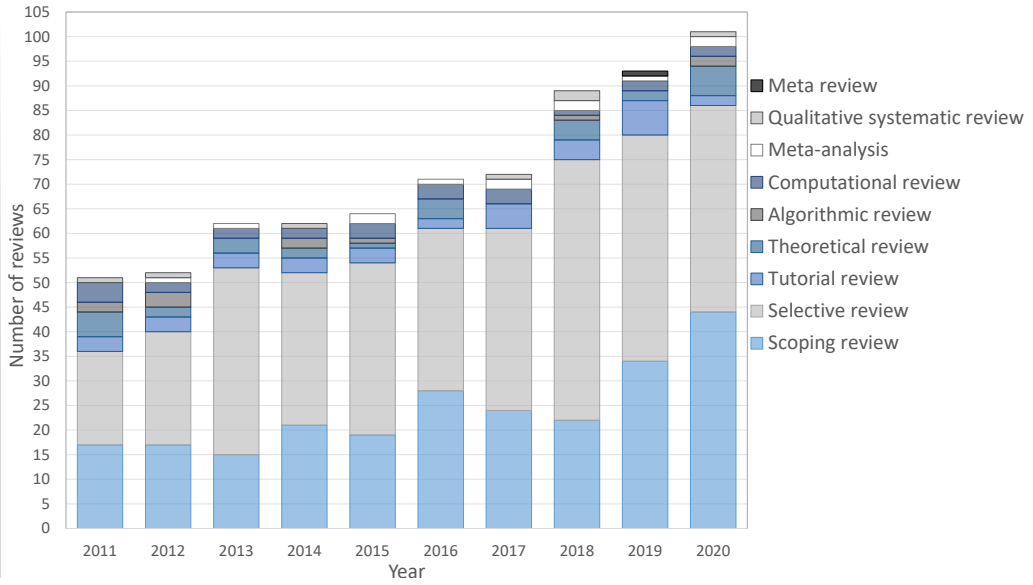

Figure 1: Absolute frequencies of reviews per year and review type.

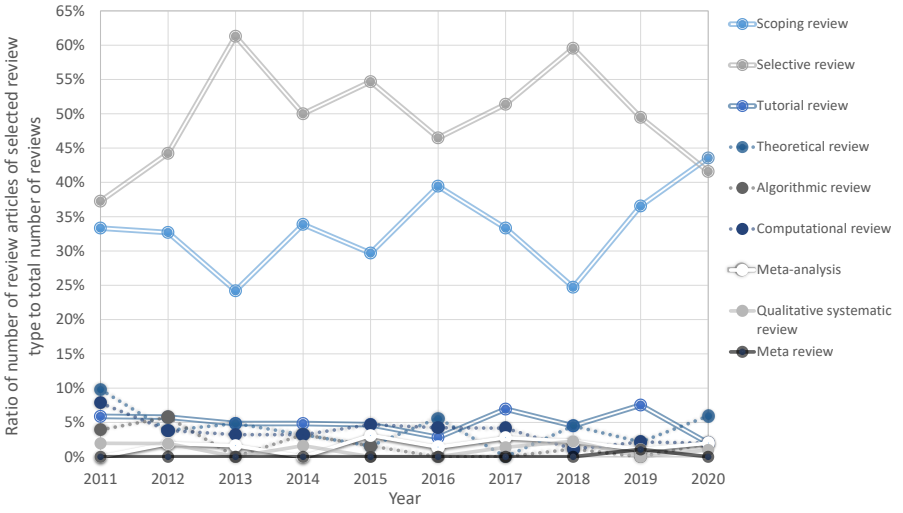

Figure 2: Relative frequencies of reviews per year and review type.

We also investigated the distribution of published reviews over the set of considered journals. Figures 3 and 4 show the distribution of reviews along review type and journal, with Table 11 in Appendix A showing the associated contingency table; we identified only six out of 44 journals which have not published any review during the considered period. The results clearly indicate that the number of published reviews largely varies between the journals. A more detailed analysis of the data is provided in the succeeding section. It should be noticed that the total number of 717 entries in Tables 9 and 11 exceeds the number of 709 reviews found since a few reviews have been assigned to more than one review type. More precisely, we assigned six literature reviews to two types and one review to three types. These reviews are listed in Online Appendix B in Table 13.

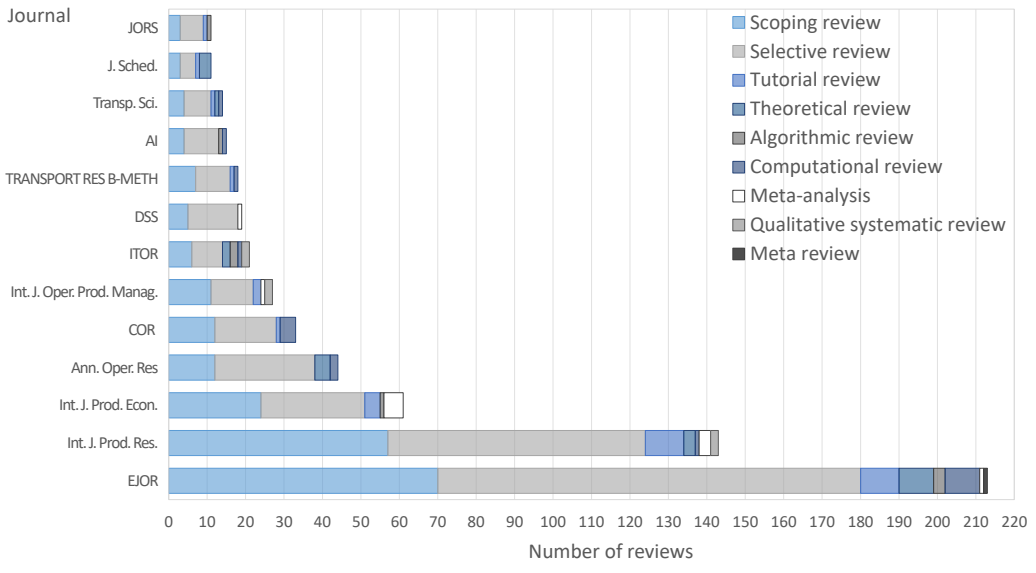

Figure 3: Absolute frequencies of reviews per journal and review type (frequencies > 10).

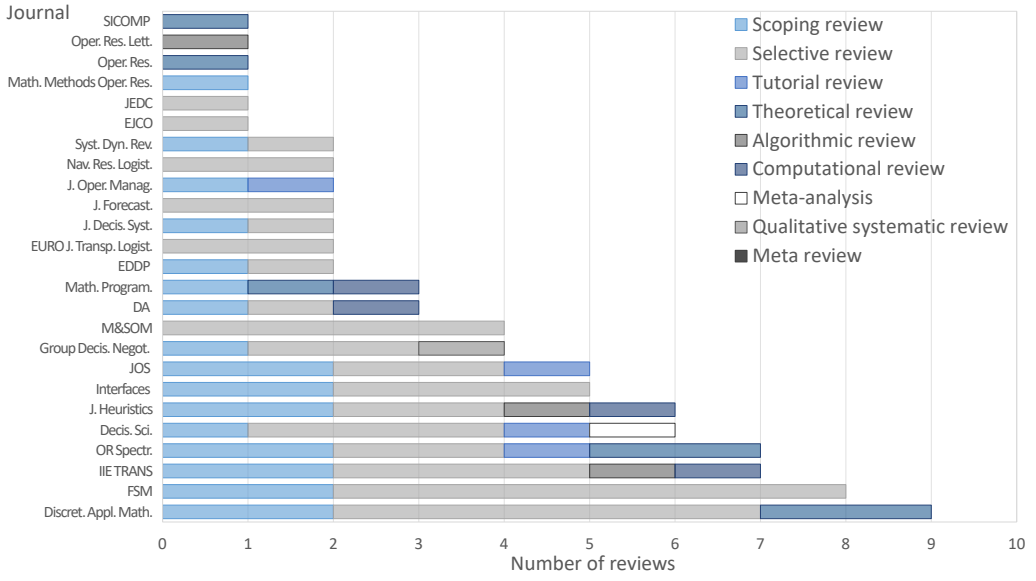

Figure 4: Absolute frequencies of reviews per journal and review type ($0 <$ frequencies ≤ 10).

5. Discussion

Our literature study reveals that the number of published reviews in the OR field (in terms of the considered journals) has grown monotonically since 2011 and has almost doubled in 2020 compared with 2011. This increasing amount of reviews published in 38 OR journals demonstrates the growing interest in and relevance of the review genre in the OR field. On one hand, our results reveal that a broad set of OR journals has contributed to this development and that all nine types of the proposed literature taxonomy can be found in the OR literature. These findings indicate a high diversity of published reviews in terms

of both review types and publishing journals. However, on the other hand, our results also show a large variance in the distributions of reviews over journals and review types: from a total of 709 literature reviews which we identified, two journals (*European Journal of Operational Research* and *International Journal of Production Research*) account for almost 50% (356 reviews) and five journals (*European Journal of Operational Research*, *International Journal of Production Research*, *International Journal of Production Economics*, *Annals of Operations Research*, and *Computers & Operations Research*) account for more than two thirds (494 reviews); *scoping* and *selective reviews* account for more than 84% (598 reviews).

Our analysis of citations (see Table 12 in Online Appendix B) – based upon *Google Scholar* and *Web of Science* – emphasizes the attention that reviews have attracted in the OR field. We identified 17 particularly influential reviews with more than 1,000 (Google Scholar) citations[11]: 50 (7%) reviews have attracted at least 500 citations, and almost half of all reviews (344; 48.5%) have gained at least 100 citations. From a bibliometric perspective, the large scientific impact that literature reviews have had may encourage scholars to compile literature reviews and editors of journals to foster the relevance of reviews in their outlets. Unsurprisingly, the numbers of citations across all types of reviews vary substantially: the mean, median, and standard deviation amount to 175.89, 94, and 246.20, respectively. The factors that may explain the variance of citations would need to be identified in a scientometric analysis, which is out of the scope of this article. In particular, this analysis needs to account for the time that has elapsed since the review was published, and it may also include the investigation of the (quantitative) effect of the review type on the number of citations. An example of such an analysis in the field of information systems research can be found in (Wagner et al., 2021). Figure 5 shows box plots for the citations which each review type has attracted.

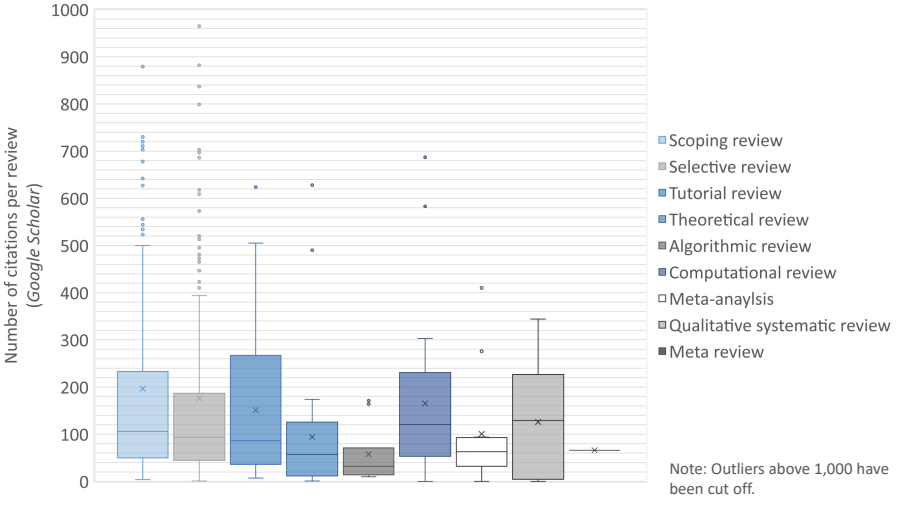

Figure 5: Box plots of type-specific citations of reviews.

While the abovementioned arguments highlight the relevance of reviews at the genre level, several empirical phenomena, including

- the diversity of literature reviews reflected in our proposed taxonomy,

[11] In the remainder of this section, all numbers of citations are based upon *Google Scholar*

- the increasingly large basket of published reviews with a high variance in terms of review types,
- different aims and scopes of journals,
- and a variety of research goals, topics, and methodologies of prospective authors of reviews

call for a more nuanced discussion of OR literature reviews to identify uncharted territories and untapped potentials of reviews in the OR field as well as potential benefits of (particular types of) reviews for editors and authors. We unfold this discussion along the proposed review types.

Scoping reviews and *selective reviews* have largely dominated the landscape of reviews in the OR field from a quantitative perspective; the absolute numbers and relative frequencies of published reviews of both types have remained high compared to those of the other review types over the period 2011-2020. These types of reviews are presumably those that scholars have in mind when they think of reviews. Both types are descriptive and their overarching goal is the synthesis of prior knowledge, including the identification of research gaps and the suggestion of research directions. They are both indispensable means for getting orientation in a (sub)field. The OR field has acknowledged that this orientation may either refer to a broad scope of questions and a comprehensive literature search (*scoping review*) or to a narrow scope and a selective search (*selective review*). We found several *scoping reviews* with more than 1,000 citations each; for example, Pillac et al. (2013) review dynamic vehicle routing problems, Lu et al. (2015) provide a survey on recommender system application developments, Hassini et al. (2012) review sustainable supply chains, and Burke et al. (2013) provide the state of the art of hyper-heuristics. We also found several *selective reviews* with more than 1,000 citations each; for example, Sarkis et al. (2011) review the green supply chain management literature, Govindan (2013) reviews the field of vendor-managed inventory, Wamba et al. (2015) provide a survey on how big data can make a big impact, and Ngai et al. (2011) analyze the literature on the application of data mining techniques in financial fraud detection. In summary, both types of reviews have dominated the landscape of OR literature reviews, condensed knowledge in many OR fields, and had an overall huge impact on the literature. We expect and hope that a high level of reviews of both types will continue to occur in the future to condense the knowledge of our field and build a "literature memory".

All of the remaining seven types of literature reviews have been published much more rarely in the OR literature than the abovementioned two types. *Tutorial reviews*, which share the overarching goal of summarizing prior knowledge with *scoping* and *selective reviews*, focus on synthesizing principles, mathematical foundations, and methodologies and aim at guiding future research; thus, they are of descriptive and prescriptive nature. Although the number of published *tutorial reviews* has been constantly low (below 10 in each year; cf. Figure 1 and Table 9) in the observed period, we consider those reviews as indispensable means for condensing knowledge in the OR field and stimulating future research by providing research recommendations for scholars. This type of guidance has been acknowledged by scholars as the numbers of citations show (cf. Table 12 and Figure 5). For example, the review of Souza (2013) presents a tutorial on closed-loop supply chains and has attracted more than 600 citations, and the review of Kolm et al. (2014) on portfolio optimization has gained more than 500 citations. We would like to note, again, that *tutorial reviews* are not to be confused with textbooks. They provide guidance for researchers and may strengthen

the rigor of research. We see a huge, yet untapped potential for *tutorial reviews* and suggest that, in particular, experienced researchers compile guiding reviews. The attractiveness for scholars to compile such reviews may increase substantially when editors of those OR journals that have methodological and mathematical foundations in their scope explicitly call for *tutorial reviews*.

The review types *theoretical review*, *algorithmic review*, and *computational review*, which all share the overarching goal of developing novel knowledge, have been published only rarely (all below 10 in each year; cf. Figure 1 and Table 9) in the OR literature during the observed period. While the former two types are constructive, the latter one adopts an exploratory approach to analyze the literature. Although their appearances in the literature have been low, all three types have been acknowledged and created scientific impact in terms of citations (cf. Table 12 and Figure 5). For example, the *theoretical review* of Qin et al. (2011), which examines extensions for analyzing the newsvendor problem in the context of modeling customer demand, supplier costs, and the buyer risk profile, has attracted 490 citations. Another example is the *theoretical review* of Gondzio (2012), which discusses several issues related to interior point methods and which has gained 380 citations. These two reviews represent prominent examples of impactful reviews which combine reviewing the literature with developing novel theoretical knowledge. Given that theoretical contributions, such as theorems, models, and insights on computational complexity, are cornerstones of the OR discipline, we call for fostering *theoretical reviews* to condense and develop theoretical knowledge. Those types of reviews may be particularly attractive for editors and prospective authors of journals with a focus on mathematical and theoretical foundations.

Although rarely published, some *algorithmic reviews* have attracted substantial attention in the literature. For example, Lust and Teghem (2012) provide a survey on algorithms for the multiobjective multidimensional knapsack problem and suggest a new approach; this review has received 171 citations. A second example is the review of Azadegan et al. (2011), which reviews, in the field of manufacturing, algorithms based on fuzzy logic and proposes a novel algorithm based on linear programming with fuzzy constraints and integer variables; this review has obtained 164 citations. As theoretical contributions, algorithmic developments are also important cornerstones of the OR discipline. Preserving and developing algorithmic knowledge in *algorithmic reviews* are thus valuable contributions to our field. Editors of journals that aim at fostering algorithmic developments might find it useful to call for such reviews.

A third type of review that aims at developing novel knowledge is a *computational review*. We found several reviews of this type which have created large scientific impact. For example, the review of Prodhon and Prins (2014), which has attracted 687 citations, analyzes the literature on the standard location-routing problem (LRP) and its extensions, and it compares the results of state-of-the-art metaheuristics on standard sets of instances for the classical LRP, the two-echelon LRP and the truck and trailer problem (cf. Table 12). Another example of a highly cited *computational review* (with 583 citations) is the article of Amores (2013), which addresses multiple instance learning with a comparative study of different methods. The author analyzes the performance of the approaches across a variety of well-known databases and also studies their behavior in synthetic scenarios. Given that computational studies of algorithms form a substantial body of research in the OR field, we appreciate *computational reviews* and encourage editors and prospective authors

of journals with an interest in the study of computational behavior of algorithms to call for and to submit such reviews, respectively. Intensifying the publication of *computational reviews* supports the computational exploration of algorithms and/or their parameterizations and, thereby, also informs those stakeholders who are interested in practical applications of algorithms suggested in the literature.

A third group of reviews addresses the overarching goal of aggregating or integrating knowledge. *Meta-analyses* and *qualitative systematic reviews* both aggregate findings of empirical studies, with the former applying statistical methods and the latter adopting narrative or subjective methods. Even though both review types are widely deployed in empirical disciplines other than OR, we identified a few reviews of both types in the OR literature (both below 3 in each year; cf. Figure 1 and Table 9). For example, the *meta-analysis* of Geng et al. (2017), which has attracted 410 citations, investigates the relationship between green supply chain management and performance in Asian emerging economies; the *meta-analysis* of Hong et al. (2017), which has received 276 citations, aims at understanding the determinants of online review helpfulness; the *qualitative systematic review* of Hasle et al. (2012), which has attracted 344 citations, reviews the literature on the effects of lean on the working environment and employee health and well-being; and the *qualitative systematic review* of Hietschold et al. (2014), which has gained 239 citations, structures the research field of measuring critical success factors of total quality management implementation. We deem the publication of *meta-analyses* and *qualitative systematic reviews* useful for empirical research areas in the OR field and suggest fostering this type of review, which has only rarely been published but has gained much more attention in neighboring disciplines.

Finally, we found a single *meta review* published in the OR discipline. Kovacs and Moshtari (2019) suggest a road map for higher research quality in humanitarian operations by analyzing 43 literature reviews; this review has attracted 66 citations. We consider *meta reviews* particularly useful for mature fields in which several literature reviews have already been published to integrate knowledge condensed in various (types of) reviews. Such reviews have the potential to become seminal articles in a particular field by condensing knowledge (provided in reviews at a secondary level) through a tertiary study.

Table 5 summarizes our findings and implications along the overarching goals of reviews.

6. Conclusion

Literature reviews have been, and are predicted to remain, a key genre in many scientific fields, including the OR discipline. It is not surprising that, among the several hundreds of reviews that we found in the OR literature, a large diversity occurs in terms of several characteristics, including the types of entities investigated, methodologies applied, contributions developed, and so forth. However, it is surprising that, despite the important empirical role of reviews to preserve and develop novel knowledge in the OR field, our discipline has been rather silent on the genre of literature reviews, in contrast to many other scientific disciplines.

In this work, we address this lack of research from both a conceptual and an empirical perspective. Applying a hybrid method, we incrementally develop a taxonomy of OR literature reviews by integrating conceptual classification knowledge of the literature and empirical data in terms of literature reviews. The

Table 5
Findings and implications

Overarching goal of reviews	Findings and implications
Summarization of prior knowledge	*Scoping reviews* and *selective reviews* have largely dominated the landscape of OR reviews; some reviews have unfolded a huge scientific impact with more than 1,000 citations. *Scoping reviews* and *selective reviews* are indispensable means to build up an OR "literature memory". *Tutorial reviews* have been published only rarely in the OR literature. *Tutorial reviews* have a large, yet untapped potential to provide guidance for researchers and to strengthen the rigor of research. Editors of OR journals with a focus on methodological and mathematical foundations are recommended to attract *tutorial reviews* compiled by experienced researchers.
Development of new knowledge	*Theoretical reviews*, *algorithmic reviews*, and *computational reviews* have been published only rarely in the OR literature; however, all three types have created a large scientific impact in terms of citations. *Theoretical reviews* should be fostered to condense and develop theoretical knowledge as a cornerstone in the OR field; they are particularly attractive for editors and prospective authors of journals with a focus on mathematical and theoretical foundations. *Algorithmic reviews* should be deployed to preserve and develop algorithmic knowledge as another cornerstone of the OR discipline; editors of journals with a focus on algorithmic developments may find it useful to call for *algorithmic reviews*. *Computational reviews* support the computational exploration of algorithms and their applications in practice; their rare appearances in the literature call for increasing attention, particularly in journals with an interest in the computational behavior of algorithms.
Aggregation or integration of knowledge	*Meta-analyses* and *qualitative systematic reviews* are hardly deployed in the OR field; however, they are valuable for and should be fostered in empirical research areas in the OR field. Only a single *meta review* has been published in the OR discipline. However, they are particularly useful for mature fields to integrate knowledge condensed in various reviews.

suggested taxonomy accounts for six dimensions (*overarching goal*, *type of analysis*, *scope of questions*, *search strategy*, *nature of primary sources*, *methods*) and distinguishes nine types of OR reviews (*scoping review*, *selective review*, *tutorial review*, *theoretical review*, *algorithmic review*, *computational review*, *meta-analysis*, *qualitative systematic review*, *meta review*). Our application of the proposed taxonomy to the body of OR literature demonstrates that it is appropriate to classify the landscape of published OR reviews. We

identified reviews of each type, and most, albeit not all, reviews could be assigned to a single type. The latter phenomenon reflects the situation that classification is often ideal-typical and does not allow assigning a single type to each object to be classified.

Our taxonomy provides a classification of reviews that allows scholars in different roles (authors, readers, editors, and reviewers) to distinguish various types of reviews and to more precisely specify which characteristics of a review of the literature they are (not) interested in. Furthermore, our empirical application of the suggested taxonomy to a large body of OR literature allowed us to identify uncharted territories and untapped potentials of reviews in the OR field. We hope that our study contributes to creating a deeper understanding of the relevance and (both conceptual and empirical) variety of literature reviews to preserve and develop knowledge in the OR field.

Our article has some limitations which show avenues for future research. First, we only considered reviews published in a basket of 44 journals and identified through conducting a title search with selected keywords and applying the "Review Articles quick filter" available on Web of Science. Future research may broaden the data scope, for example, accounting for an extended period, more journals, and other types of publication outlets, including book chapters, textbooks, white papers, and articles published in conference proceedings. An empirical analysis of a larger body of literature reviews would help identify possibly missing types of reviews and re-evaluate to what extent the suggested taxonomy seems appropriate for classifying OR literature reviews. Second, our study has excluded scientometric and bibliometric reviews, resulting in a taxonomy that is hardly applicable to such reviews. Third, future work may perform a scientometric analysis of reviews to unfold the determinants of scientific impact in terms of citations; for example, such determinants may be at the journal level, article level, and/or author level (Wagner et al., 2016, 2021).

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A. Appendix

A.1. Taxonomy development

Figure 6 shows the taxonomy development method of Nickerson et al. (2013), which was used for our taxonomy development. Table 6 lists all 60 literature reviews published in 19 journals which have been used

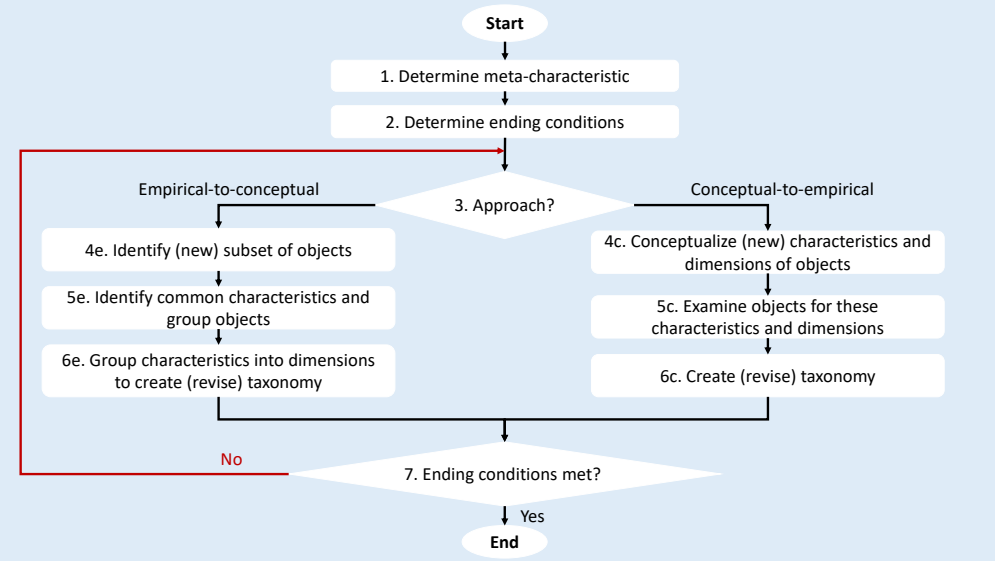

Figure 6: The taxonomy development method (Nickerson et al., 2013, p. 345)

to build the taxonomy of OR reviews, grouped by journals.

Table 6: OR literature reviews used in the taxonomy building process.

Journal	Literature reviews
Annals of Operations Research	(Anaya-Arenas et al., 2014; Bouyssou and Pirlot, 2015)
Computers & Operations Research	(Nguyen et al., 2018; Ikli et al., 2021; Mazyavkina et al., 2021)
Decision Sciences	(Zhao et al., 2006; Wowak et al., 2013)
Decision Support Systems	(Ghosh et al., 2007; Seuring, 2013)
Discrete Applied Mathematics	(Fertin and Raspaud, 2004; Bradley, 2015; Bonomo-Braberman et al., 2020)
European Journal of Operational Research	(Beach et al., 2000; Shioura et al., 2018; Fragapane et al., 2021; Fowler and Mönch, 2022; Hartmann and Briskorn, 2022)
II(S)E Transactions	(Tekin and Sabuncuoglu, 2004; Chen et al., 2006; Grant and Settles, 2009; Shi and Zhou, 2009; Tsui et al., 2012; Cheng et al., 2015)

Table 6 (cont'd)

Journal	Literature reviews
INFORMS Journal on Computing	(Ingolfsson et al., 2007; Minella et al., 2008; Gosavi, 2009; Potvin, 2009)
Interfaces	(Newman et al., 2010)
International Journal of Operations & Production Management	(Zhang et al., 2011; Wang et al., 2018)
Journal of Operations Management	(Vokurka and O'Leary-Kelly, 2000; Tsikriktsis, 2005; Nair, 2006; Chen et al., 2010; Mackelprang and Nair, 2010; Cao and Lumineau, 2015; Lonati et al., 2018)
Journal of Scheduling	(Qu et al., 2009; Visentini et al., 2014; Prot and Bellenguez-Morineau, 2018; Bentert et al., 2019; Gawiejnowicz, 2020)
Journal of the Operational Research Society	(Fildes et al., 2008; Potts and Strusevich, 2009)
Manufacturing & Service Operations Management	(Keskinocak and Savva, 2020; Singh et al., 2020)
Mathematical Programming	(Albers, 2003; Arora, 2003; Bao et al., 2011)
Operations Research	(Kanet and Sridharan, 2000; Glazebrook and Washburn, 2004; Chen, 2010)
OR Spectrum	(Steenken et al., 2004; Stahlbock and Voss, 2008; Schryen and Hristova, 2014; Woerbelauer et al., 2019)
Transportation Research Part B	(Ibarra-Rojas et al., 2015)
Transportation Science	(Bouzaiene-Ayari et al., 2001; Coelho et al., 2014; Guastaroba et al., 2016)

A.2. OR journals

Table 7 lists all 44 OR journals in alphabetical order used in our search for literature reviews. Here, a (P) after the ISSN number stands for the print ISSN and the (E) for the electronic ISSN. If the print ISSN was not available, the electronic ISSN was entered in Table 7. Table 8 lists all abbreviation used for the journal names.

Table 7: Examined Operations Research Journals.

No.	Source	Journal Name	ISSN
1	VHB	Annals of Operations Research	0254-5330 (P)
2	VHB	Artificial Intelligence	0004-3702 (P)
3	VHB	Computers and Operations Research	0305-0548 (P)

Table 7 (cont'd)

No.	Source	Journal Name	ISSN
4	INFORMS	Decision Analysis	1545-8504 (E)
5	VHB	Decision Sciences	0011-7315 (P)
6	VHB	Decision Support Systems	0167-9236 (P)
7	VHB	Discrete Applied Mathematics	0166-218X (P)
8	EURO	EURO Journal on Computational Optimization	2192-4406 (E)
9	EURO	EURO Journal on Decision Processes	2193-9438 (E)
10	VHB	EURO Journal on Transportation and Logistics	2192-4376 (P)
11	VHB	European Journal of Operational Research	0377-2217 (P)
12	VHB	Flexible Services and Manufacturing Journal	1936-6582 (P)
13	VHB	Group Decision and Negotiation	0926-2644 (P)
14	VHB	IIE Transactions	0740-817X (P)
15	VHB	INFORMS Journal on Computing	1091-9856 (P)
16	INFORMS	INFORMS Journal on Optimization	1936-6590 (E)
17	VHB	Interfaces	0092-2102 (P)
18	VHB	International Journal of Operations & Production Management	0144 -3577 (P)
19	VHB	International Journal of Production Economics	0925-5273 (P)
20	VHB	International Journal of Production Research	0020-7543 (P)
21	The OR Society	International Journal of Systems Science: Operations & Logistics	2330-2682 (E)
22	IFORS	International Transactions in Operational Research	1475-3995 (E)
23	VHB	Journal of Decision Systems	1246-0125 (P)
24	VHB	Journal of Economic Dynamics & Control	0165-1889 (P)
25	VHB	Journal of Forecasting	0277-6693 (P)
26	VHB	Journal of Heuristics	1381-1231 (P)
27	VHB	Journal of Operations Management	0272-6963 (P)
28	VHB	Journal of Risk and Uncertainty	0895-5646 (P)
29	VHB	Journal of Scheduling	1094-6136 (P)
30	The OR Society	Journal of Simulation	1747-7786 (E)
31	VHB	JORS. Journal of the Operational Research Society (previously: Operational Research Quarterly)	0160-5682 (P)
32	VHB	Managerial and Decision Economics	0143-6570 (P)
33	VHB	Manufacturing & Service Operations Management	1523-4614 (P)
34	VHB	Mathematical Methods of Operations Research	1432-2994 (P)
35	VHB	Mathematical Programming	0025-5610 (P)
36	VHB	Mathematics of Operations Research	0364-765X (P)

Table 7 (cont'd)

No.	Source	Journal Name	ISSN
37	VHB	Naval Research Logistics	0894-069X (P)
38	VHB	Operations Research	1047-7047 (P)
39	VHB	Operations Research Letters	0167-6377 (P)
40	VHB	OR Spectrum	0171-6468 (P)
41	VHB	SIAM Journal on Computing	0097-5397 (P)
42	VHB	System Dynamics Review	0883-7066 (P)
43	VHB	Transportation Research Part B: Methodological	0191-2615 (P)
44	VHB	Transportation Science	0041-1655 (P)

Verband der Hochschullehrer für Betriebswirtschaft (VHB), International Federation of Operational Research Societies (IFORS), The Association of European Operational Research Societies (EURO), The Operational Research Society (The OR Society), Institute for Operations Research and the Management Sciences (INFORMS), Print ISSN (P), Electronic ISSN (E)

Table 8: Abbreviation of journal names.

Full title	Abbreviation
Annals of Operations Research	Ann. Oper. Res
Artificial Intelligence	AI
Computers and Operations Research	COR
Decision Analysis	DA
Decision Sciences	Decis. Sci.
Decision Support Systems	DSS
Discrete Applied Mathematics	Discret. Appl. Math.
EURO Journal on Computational Optimization	EJCO
EURO Journal on Decision Processes	EDDP
EURO Journal on Transportation and Logistics	EURO J. Transp. Logist.
European Journal of Operational Research	EJOR
Flexible Services and Manufacturing Journal	FSM
Group Decision and Negotiation	Group Decis. Negot.
IIE Transactions	IIE TRANS
INFORMS Journal on Computing	JOC
INFORMS Journal on Optimization	INFORMS J Opti
Interfaces	Interfaces
International Journal of Operations & Production Management	Int. J. Oper. Prod. Manag.
International Journal of Production Economics	Int. J. Prod. Econ.

Table 8 (cont'd)

Full title	Abbreviation
International Journal of Production Research	Int. J. Prod. Res.
International Journal of Systems Science: Operations & Logistics	Int. J. Syst. Sci.: Oper. Logist.
International Transactions in Operational Research	ITOR
Journal of Decision Systems	J. Decis. Syst.
Journal of Economic Dynamics & Control	JEDC
Journal of Forecasting	J. Forecast.
Journal of Heuristics	J. Heuristics
Journal of Operations Management	J. Oper. Manag.
Journal of Risk and Uncertainty	J. Risk Uncertain.
Journal of Scheduling	J. Sched.
Journal of Simulation	JOS
Journal of the Operational Research Society	JORS
Managerial and Decision Economics	MDE
Manufacturing & Service Operations Management	M&SOM
Mathematical Methods of Operations Research	Math. Methods Oper. Res.
Mathematical Programming	Math. Program.
Mathematics of Operations Research	Math. Oper. Res.
Naval Research Logistics	Nav. Res. Logist.
Operations Research	Oper. Res.
Operations Research Letters	Oper. Res. Lett.
OR Spectrum	OR Spectr.
SIAM Journal on Computing	SICOMP
System Dynamics Review	Syst. Dyn. Rev.
Transportation Research Part B: Methodological	TRANSPORT RES B-METH
Transportation Science	Transp. Sci.

A.3. OR literature reviews

Table 9 and Table 10 show the absolute and relative frequencies according to the publication year and review type. Table 11 lists the distribution of reviews along the review type and journal. Note that the total number of 717 reviews in Table 9 and 11 exceeds the number of 709 reviews found since a few reviews have been assigned to more than one review type. Table 12 in Online Appendix B contains the full sample of 709 literature reviews, including journal name, review type, and the number of citations as provided by *Google Scholar* and *Web of Science*. In addition, all seven literature reviews that were assigned to multiple types are listed in Table 13 in Online Appendix B.

Table 9
Absolute frequencies according to publication year and review type.

LR type / year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	Total
Scoping review	17	17	15	21	19	28	24	22	34	44	241
Selective review	19	23	38	31	35	33	37	53	46	42	357
Tutorial review	3	3	3	3	3	2	5	4	7	2	35
Theoretical review	5	2	3	2	1	4	0	4	2	6	29
Algorithmic review	2	3	0	2	1	0	0	1	0	2	11
Computational review	4	2	2	2	3	3	3	1	2	2	24
Meta-analysis	0	1	1	0	2	1	2	2	1	2	12
Qualitative systematic review	1	1	0	1	0	0	1	2	0	1	7
Meta review	0	0	0	0	0	0	0	0	1	0	1
Total	51	52	62	62	64	71	72	89	93	101	717

Table 10
Relative frequencies according to publication year and review type.

LR type / year	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Scoping review	33%	33%	24%	34%	30%	39%	33%	25%	37%	44%
Selective review	37%	44%	61%	50%	55%	46%	51%	60%	49%	42%
Tutorial review	6%	6%	5%	5%	5%	3%	7%	4%	8%	2%
Theoretical review	10%	4%	5%	3%	2%	6%	0%	4%	2%	6%
Algorithmic review	4%	6%	0%	3%	2%	0%	0%	1%	0%	2%
Computational review	8%	4%	3%	3%	5%	4%	4%	1%	2%	2%
Meta-analysis	0%	2%	2%	0%	3%	1%	3%	2%	1%	2%
Qualitative systematic review	2%	2%	0%	2%	0%	0%	1%	2%	0%	1%
Meta review	0%	0%	0%	0%	0%	0%	0%	0%	1%	0%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Table 11: Distribution of reviews along review type and journal.

Journal abbr. / LR type	Scoping review	Selective review	Tutorial review	Theoretical review	Algorithmic review	Computational review	Meta-analysis	Qualitative systematic review	Meta review	Total
Ann. Oper. Res	12	26	0	4	0	2	0	0	0	44
AI	4	9	0	0	1	1	0	0	0	15
COR	12	16	1	0	0	4	0	0	0	33
DA	1	1	0	0	0	1	0	0	0	3
Decis. Sci.	1	3	1	0	0	0	1	0	0	6
DSS	5	13	0	0	0	0	1	0	0	19
Discret. Appl. Math.	2	5	0	2	0	0	0	0	0	9
EJCO	0	1	0	0	0	0	0	0	0	1
EDDP	1	1	0	0	0	0	0	0	0	2
EURO J. Transp. Logist.	0	2	0	0	0	0	0	0	0	2
EJOR	70	110	10	9	3	9	1	0	1	213
FSM	2	6	0	0	0	0	0	0	0	8
Group Decis. Negot.	1	2	0	0	0	0	0	1	0	4
IIE TRANS	2	3	0	0	1	1	0	0	0	7
JOC	0	0	0	0	0	0	0	0	0	0
INFORMS J Opti	0	0	0	0	0	0	0	0	0	0
Interfaces	2	3	0	0	0	0	0	0	0	5
Int. J. Oper. Prod. Manag.	11	11	2	0	0	0	1	2	0	27
Int. J. Prod. Econ.	24	27	4	0	1	0	5	0	0	61
Int. J. Prod. Res.	57	67	10	3	0	1	3	2	0	143
Int. J. Syst. Sci.: Oper. Logist.	0	0	0	0	0	0	0	0	0	0
ITOR	6	8	0	2	2	1	0	2	0	21
J. Decis. Syst.	1	1	0	0	0	0	0	0	0	2

Table 11 (cont'd)

Journal abbr. / LR type	Scoping review	Selective review	Tutorial review	Theoretical review	Algorithmic review	Computational review	Meta-analysis	Qualitative systematic review	Meta review	Total
JEDC	0	1	0	0	0	0	0	0	0	1
J. Forecast.	0	2	0	0	0	0	0	0	0	2
J. Heuristics	2	2	0	0	1	1	0	0	0	6
J. Oper. Manag.	1	0	1	0	0	0	0	0	0	2
J. Risk Uncertain.	0	0	0	0	0	0	0	0	0	0
J. Sched.	3	4	1	3	0	0	0	0	0	11
JOS	2	2	1	0	0	0	0	0	0	5
JORS	3	6	1	0	1	0	0	0	0	11
MDE	0	0	0	0	0	0	0	0	0	0
M&SOM	0	4	0	0	0	0	0	0	0	4
Math. Methods Oper. Res.	1	0	0	0	0	0	0	0	0	1
Math. Program.	1	0	0	1	0	1	0	0	0	3
Math. Oper. Res.	0	0	0	0	0	0	0	0	0	0
Nav. Res. Logist.	0	2	0	0	0	0	0	0	0	2
Oper. Res.	0	0	0	1	0	0	0	0	0	1
Oper. Res. Lett.	0	0	0	0	1	0	0	0	0	1
OR Spectr.	2	2	1	2	0	0	0	0	0	7
SICOMP	0	0	0	1	0	0	0	0	0	1
Syst. Dyn. Rev.	1	1	0	0	0	0	0	0	0	2
TRANSPORT RES B-METH	7	9	1	0	0	1	0	0	0	18
Transp. Sci.	4	7	1	1	0	1	0	0	0	14
Total	241	357	35	29	11	24	12	7	1	717

B. Online Appendix

Table 12: Full sample of OR literature reviews

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Abdulla et al. (2019)	J. Oper. Manag.	Scoping review	51 | 24
Acuna and Lowndes (2014)	Interfaces	Scoping review	36 | 16
Adulyasak et al. (2015)	COR	Computational review	232 | 122
Agatz et al. (2012)	EJOR	Selective review	1024 | 517
Aghamohammadi and Laval (2020)	TRANSPORT RES B-METH	Scoping review	38 | 13
Aguilar et al. (2020)	COR	Scoping review	10 | 5
Agyapong-Kodua et al. (2013)	Int. J. Prod. Res.	Selective review	20 | 12
Ahmadi-Javid et al. (2017b)	COR	Selective review	352 | 183
Ahmadi-Javid et al. (2017a)	EJOR	Scoping review	356 | 182
Ain et al. (2019)	DSS	Selective review	141 | 47
Akcali and Cetinkaya (2011)	Int. J. Prod. Res.	Scoping review	267 | 140
Akgunduz and Tunali (2011)	Int. J. Prod. Res.	Selective review	37 | 18
Akter and Wamba (2019)	Ann. Oper. Res	Selective review	219 | 113
Alba et al. (2013)	ITOR	Scoping review	302 | 165
Albrecht and Stone (2018)	AI	Selective review	323 | 114
Alidaee (2014)	EJOR	Selective review	5 | 5
Allahverdi (2015)	EJOR	Selective review	425 | 251
Allahverdi (2016)	EJOR	Scoping review	179 | 113
Amaran et al. (2016)	Ann. Oper. Res	Selective review	372 | 193
Amideo et al. (2019)	EJOR	Selective review	63 | 40
Amores (2013)	AI	Computational review	583 | 294
Amorim et al. (2013)	FSM	Selective review	182 | 85
Anaya-Arenas et al. (2014)	Ann. Oper. Res	Scoping review	242 | 132
Andriolo et al. (2014)	Int. J. Prod. Econ.	Scoping review	206 | 114
Andriosopoulos et al. (2019)	JORS	Scoping review	28 | 15
Anjos and Vieira (2017)	EJOR	Selective review	161 | 95

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Ansari et al. (2018)	TRANSPORT RES B-METH	Scoping review	87 | 38
Aouchiche and Hansen (2013)	Discret. Appl. Math.	Scoping review	194 | 95
Aringhieri et al. (2017)	COR	Scoping review	250 | 105
Atan et al. (2017)	EJOR	Scoping review	70 | 36
Atashbar et al. (2018)	Int. J. Prod. Res.	Scoping review	104 | 63
Aust and Buscher (2014)	EJOR	Selective review	199 | 121
Aven (2016)	EJOR	Selective review	1177 | 447
Azadegan et al. (2011)	Int. J. Prod. Econ.	Algorithmic review	164 | 95
Azadeh et al. (2019)	Transp. Sci.	Selective review	189 | 102
Bakker et al. (2012)	EJOR	Scoping review	720 | 379
Bakker et al. (2013)	Int. J. Prod. Res.	Selective review	52 | 23
Baldacci et al. (2012)	EJOR	Selective review	520 | 237
Banasik et al. (2018)	FSM	Scoping review	105 | 53
Banerjee et al. (2020)	EJOR	Scoping review	27 | 11
Bao et al. (2011)	Math. Program.	Theoretical review and computational review	134 | 74
Barbosa-Povoa et al. (2018)	EJOR	Selective review	267 | 148
Barchi and Greco (2018)	Group Decis. Negot.	Selective review	29 | 11
Bart et al. (2021)	Int. J. Prod. Res.	Scoping review	23 | 13
Baryannis et al. (2019)	Int. J. Prod. Res.	Selective review	332 | 169
Basso et al. (2019)	ITOR	Selective review	63 | 33
Battaia and Dolgui (2013)	Int. J. Prod. Econ.	Selective review	686 | 409
Beekman et al. (2020)	DA	Computational review	0 | 0
Behl and Dutta (2019)	Ann. Oper. Res	Selective review	146 | 85
Bektas et al. (2019)	EJOR	Selective review	119 | 75
Belanger et al. (2019)	EJOR	Selective review	139 | 67
Belien and Force (2012)	EJOR	Scoping review	430 | 198

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Belien et al. (2014)	Transp. Sci.	Scoping review	192 | 71
Ben Abdelaziz (2012)	EJOR	Selective review	132 | 74
Ben-Daya et al. (2019)	Int. J. Prod. Res.	Selective review	799 | 357
Bentert et al. (2019)	J. Sched.	Theoretical review	13 | 6
Bentz et al. (2013)	EJOR	Selective review	11 | 5
Berthold et al. (2019)	EJCO	Selective review	21 | 7
Bezerra et al. (2020)	JORS	Algorithmic review	14 | 11
Bhamra et al. (2011)	Int. J. Prod. Res.	Scoping review	1345 | 513
Bhamu and Sangwan (2014)	Int. J. Oper. Prod. Manag.	Scoping review	1059 | 350
Bhoopalam et al. (2018)	TRANSPORT RES B-METH	Selective review	216 | 100
Bier et al. (2020)	Int. J. Prod. Res.	Selective review	88 | 55
Bierwirth and Meisel (2015)	EJOR	Scoping review	439 | 284
Bigi et al. (2013)	EJOR	Selective review	168 | 132
Bijvank and Vis (2011)	EJOR	Scoping review	235 | 99
Billionnet (2013)	EJOR	Theoretical review	74 | 44
Blot et al. (2018)	J. Heuristics	Algorithmic review	25 | 10
Bodirsky et al. (2012)	Discret. Appl. Math.	Theoretical review	62 | 30
Bogataj and Bogataj (2019)	Int. J. Prod. Res.	Tutorial review	27 | 16
Bomze (2012)	EJOR	Scoping review	156 | 88
Bonomo-Braberman et al. (2020)	Discret. Appl. Math.	Theoretical review	1 | 1
Borgonovo and Plischke (2016)	EJOR	Scoping review	703 | 417
Borodin et al. (2016)	EJOR	Selective review	197 | 99
Bortfeldt and Waescher (2013)	EJOR	Scoping review	409 | 186
Boscari et al. (2018)	Int. J. Prod. Res.	Selective review	27 | 13
Boukouvala et al. (2016)	EJOR	Selective review	190 | 115

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Bouyssou and Pirlot (2015)	Ann. Oper. Res	Theoretical review	7 | 5
Boysen et al. (2012b)	EJOR	Selective review	111 | 57
Boysen et al. (2012a)	EJOR	Scoping review	151 | 72
Boysen et al. (2013)	Transp. Sci.	Selective review	128 | 68
Boysen et al. (2015)	EJOR	Selective review	247 | 123
Boysen and Stephan (2016)	EJOR	Selective review	104 | 63
Boysen et al. (2019a)	EJOR	Scoping review	41 | 18
Boysen et al. (2019b)	EJOR	Selective review	321 | 151
Bradley (2015)	Discret. Appl. Math.	Selective review	3 | 0
Brahimi et al. (2017)	EJOR	Selective review	144 | 75
Brailsford et al. (2019)	EJOR	Scoping review	213 | 91
Brandt and Nickel (2019)	EJOR	Scoping review	44 | 18
Brax et al. (2017)	Int. J. Oper. Prod. Manag.	Selective review	93 | 43
Breedveld et al. (2019)	EJOR	Selective review	58 | 34
Bressanelli et al. (2019)	Int. J. Prod. Res.	Scoping review	239 | 144
Brinch (2018)	Int. J. Oper. Prod. Manag.	Scoping review	80 | 47
Briskorn and Dienstknecht (2018)	COR	Selective review	27 | 13
Brusco et al. (2017)	Int. J. Oper. Prod. Manag.	Selective review	59 | 33
Buergisser et al. (2011)	SICOMP	Theoretical review	107 | 47
Buijs et al. (2014)	EJOR	Selective review	179 | 77
Bulo and Pelillo (2017)	EJOR	Selective review	44 | 13
Burke et al. (2013)	JORS	Scoping review	1121 | 562
Burt and Caccetta (2014)	Interfaces	Scoping review	108 | 37
Buyuktahtakin and Haight (2018)	Ann. Oper. Res	Selective review	43 | 29
Cacchiani et al. (2014)	TRANSPORT RES B-METH	Selective review	618 | 340
Calleja et al. (2018)	Int. J. Prod. Res.	Selective review	32 | 17

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Calmels (2019)	Int. J. Prod. Res.	Scoping review	26 | 13
Campbell and O'Kelly (2012)	Transp. Sci.	Selective review	573 | 300
Cao et al. (2012)	Int. J. Prod. Res.	Meta-analysis	56 | 16
Cardoso (2019)	Discret. Appl. Math.	Scoping review	6 | 2
Carlo et al. (2014a)	EJOR	Selective review	363 | 199
Carlo et al. (2014b)	EJOR	Selective review	305 | 158
Carlo et al. (2015)	FSM	Selective review	189 | 108
Carrillo et al. (2015)	DA	Selective review	44 | 22
Carrizosa and Romero Morales (2013)	COR	Tutorial review	166 | 79
Castillo-Salazar et al. (2016)	Ann. Oper. Res	Computational review	164 | 62
Castro (2012)	EJOR	Computational review	53 | 18
Cerchione and Esposito (2016)	Int. J. Prod. Econ.	Scoping review	177 | 94
Chahal et al. (2020)	Int. J. Prod. Econ.	Meta-analysis	35 | 21
Chakuu et al. (2019)	Int. J. Prod. Econ.	Scoping review	57 | 38
Chan et al. (2017)	Int. J. Prod. Res.	Selective review	80 | 9
Charwat et al. (2015)	AI	Selective review	154 | 89
Chaudhry and Khan (2016)	ITOR	Selective review	317 | 169
Chelly et al. (2019)	Int. J. Prod. Res.	Scoping review	54 | 51
Chen et al. (2014)	Int. J. Prod. Econ.	Selective review	240 | 128
Cheng et al. (2013)	Int. J. Prod. Res.	Scoping review	80 | 43
Cheng et al. (2015)	IIE TRANS	Computational review	149 | 85
Cherri et al. (2014)	EJOR	Selective review	72 | 38
Chiu and Choi (2016)	Ann. Oper. Res	Scoping review	256 | 183
Choi et al. (2016)	Ann. Oper. Res	Selective review	87 | 25
Choong (2014)	Int. J. Prod. Res.	Tutorial review	112 | 46

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Christiansen et al. (2013)	EJOR	Selective review	609 | 335
Christiansen et al. (2020)	EJOR	Scoping review	46 | 26
Chung et al. (2020)	COR	Scoping review	111 | 51
Cleophas et al. (2019)	EJOR	Selective review	187 | 94
Cocca et al. (2019)	Int. J. Prod. Res.	Selective review	38 | 21
Coelho et al. (2014)	Transp. Sci.	Scoping review	682 | 298
Colapinto et al. (2017)	Ann. Oper. Res	Selective review	91 | 53
Copil et al. (2017)	OR Spectr.	Scoping review	165 | 94
Corne et al. (2012)	EJOR	Scoping review	100 | 48
Craighead et al. (2020)	DA	Selective review	172 | 85
Crainic et al. (2018)	EJOR	Selective review	155 | 78
Cruz and Rios Rincon (2012)	EJOR	Scoping review	57 | 22
Cuda et al. (2015)	COR	Selective review	325 | 178
Dai et al. (2020)	M&SOM	Selective review	12 | 4
Dakpo et al. (2016)	EJOR	Selective review	215 | 144
Darabi and Hosseinichimeh (2020)	Syst. Dyn. Rev.	Scoping review	54 | 35
Dasaklis et al. (2012)	Int. J. Prod. Econ.	Selective review	231 | 120
De Bruecker et al. (2015)	EJOR	Tutorial review	299 | 150
De Corte and Soerensen (2013)	EJOR	Selective review	86 | 41
de Gooyert et al. (2017)	EJOR	Scoping review	151 | 55
de Jonge and Scarf (2020)	EJOR	Selective review	187 | 112
Dekker et al. (2012)	EJOR	Selective review	965 | 478
Dekker et al. (2013)	Int. J. Prod. Econ.	Selective review	143 | 52
Dekkers et al. (2013)	Int. J. Prod. Econ.	Selective review	132 | 55
de Kok et al. (2018)	EJOR	Selective review	77 | 35
Delorme et al. (2016)	EJOR	Computational review	288 | 125
Demange et al. (2015)	EJOR	Selective review	52 | 26
de Ona and de Ona (2015)	Transp. Sci.	Tutorial review	270 | 144

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Dernir et al. (2014)	EJOR	Scoping review	711 | 388
De Witte and Lopez-Torres (2017)	JORS	Tutorial review	361 | 150
DeYong (2020)	Int. J. Prod. Res.	Selective review and theoretical review	8 | 6
Di and Liu (2016)	TRANSPORT RES B-METH	Scoping review	117 | 70
Diallo et al. (2017)	Int. J. Prod. Res.	Selective review	111 | 79
Diaz-Balteiro et al. (2017)	EJOR	Selective review	236 | 164
Diaz-Madronero et al. (2014)	Int. J. Prod. Res.	Selective review	101 | 57
Ding et al. (2018)	Int. J. Prod. Econ.	Selective review	52 | 30
Di Pasquale et al. (2020a)	Int. J. Prod. Res.	Scoping review	17 | 12
Di Pasquale et al. (2020b)	Int. J. Prod. Res.	Scoping review	10 | 2
Domshlak et al. (2011)	AI	Scoping review	218 | 86
Donais et al. (2019)	EDDP	Scoping review	11 | 7
Dotoli et al. (2017)	Int. J. Prod. Res.	Selective review	41 | 17
Dotoli et al. (2019)	Int. J. Prod. Res.	Selective review	72 | 45
Doukas (2013)	EJOR	Selective review	50 | 31
Doukas and Nikas (2020)	EJOR	Theoretical review	72 | 51
Doumpos and Zopounidis (2011)	EJOR	Selective review	120 | 65
Dragovic et al. (2017)	FSM	Scoping review	147 | 66
Drake et al. (2020)	EJOR	Selective review	128 | 64
Drexl (2012)	Transp. Sci.	Selective review	465 | 250
Drexl and Schneider (2015)	EJOR	Selective review	410 | 219
Dror and Hartman (2011)	JORS	Selective review	53 | 23
Duijzer et al. (2018)	EJOR	Selective review	124 | 62
Duong and Chong (2020)	Int. J. Prod. Res.	Selective review	59 | 38
Duran et al. (2014)	Discret. Appl. Math.	Selective review	23 | 9
Durbach and Stewart (2012)	EJOR	Scoping review	348 | 205

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Durugbo (2016)	Int. J. Prod. Res.	Scoping review	71 | 40
Durugbo (2020)	Int. J. Prod. Res.	Scoping review	39 | 18
Dutta and Mitra (2017)	JORS	Selective review	181 | 78
Ebrahimi and Sadeghi (2013)	Int. J. Prod. Res.	Selective review	183 | 70
Edis et al. (2013)	EJOR	Selective review and theoretical review	132 | 86
Eksoz et al. (2014)	Int. J. Prod. Econ.	Selective review	126 | 57
El Kadiri and Kiritsis (2015)	Int. J. Prod. Res.	Scoping review	99 | 45
Engebrethsen and Dauzere-Peres (2019)	EJOR	Selective review	27 | 14
Epstein (2018)	J. Sched.	Theoretical review	14 | 9
Erdinc and Yeow (2011)	Int. J. Prod. Res.	Tutorial review	41 | 21
Erhard et al. (2018)	EJOR	Scoping review	142 | 70
Eruguz et al. (2016)	Int. J. Prod. Econ.	Scoping review	67 | 35
Eruguz et al. (2017)	COR	Scoping review	57 | 30
Eslami et al. (2019)	Int. J. Prod. Res.	Selective review	50 | 30
Esmaeilikia et al. (2016)	Ann. Oper. Res	Selective review	140 | 85
Fampa et al. (2016)	ITOR	Theoretical review	17 | 8
Farahani et al. (2013)	EJOR	Scoping review	678 | 358
Farahani et al. (2015)	Int. J. Prod. Res.	Scoping review	106 | 62
Farahani et al. (2019)	EJOR	Selective review	76 | 46
Farahani et al. (2020)	EJOR	Selective review	80 | 46
Fernandez-Viagas et al. (2017)	EJOR	Computational review	142 | 97
Fiestras-Janeiro et al. (2011)	EJOR	Theoretical review	166 | 59
Fikar and Hirsch (2017)	COR	Selective review	355 | 171
Filippi et al. (2020)	ITOR	Scoping review	27 | 17
Fliege et al. (2012)	EJOR	Scoping review	19 | 5

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Fogliatto et al. (2012)	Int. J. Prod. Econ.	Scoping review	879 | 373
Formentini and Romano (2016)	Int. J. Oper. Prod. Manag.	Selective review	42 | 18
Framinan et al. (2019)	EJOR	Selective review	66 | 51
Froger et al. (2016)	EJOR	Scoping review	168 | 72
Gabrel et al. (2014)	EJOR	Selective review	837 | 447
Gabriel et al. (2022)	JOS	Tutorial review	7 | 4
Gadalla and Xue (2017)	Int. J. Prod. Res.	Scoping review	63 | 44
Gagliardi et al. (2012)	Int. J. Prod. Res.	Selective review	128 | 67
Gahm et al. (2016)	EJOR	Selective review	382 | 247
Galindo and Batta (2013)	EJOR	Selective review	688 | 377
Gansterer and Hartl (2018)	EJOR	Scoping review	216 | 108
Gascons et al. (2012)	IIE TRANS	Scoping review	17 | 7
Gaussin et al. (2013)	Int. J. Prod. Econ.	Selective review	120 | 51
Gavalas et al. (2014)	J. Heuristics	Scoping review	305 | 143
Gawiejnowicz (2020)	J. Sched.	Scoping review	17 | 11
Geiger (2020)	Group Decis. Negot.	Scoping review	10 | 5
Gendreau et al. (2015)	COR	Scoping review	231 | 126
Geng et al. (2017)	Int. J. Prod. Econ.	Meta-analysis	410 | 210
Georgievski and Aiello (2015)	AI	Scoping review	132 | 57
Geraldi et al. (2011)	Int. J. Oper. Prod. Manag.	Scoping review	627 | 268
Gerards et al. (2016)	J. Sched.	Scoping review	41 | 21
Ghadge et al. (2020)	Int. J. Prod. Res.	Scoping review	77 | 42
Ghadimi et al. (2016)	Int. J. Prod. Res.	Selective review	98 | 45
Ghiani et al. (2014)	COR	Selective review	266 | 137
Giddings et al. (2014)	J. Heuristics	Scoping review	19 | 9
Glas et al. (2018)	Int. J. Oper. Prod. Manag.	Selective review	40 | 12

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Glock (2012)	Int. J. Prod. Econ.	Selective review	377 | 223
Glock and Grosse (2015)	Int. J. Prod. Res.	Selective review	63 | 41
Glock et al. (2017)	Int. J. Prod. Econ.	Scoping review	98 | 10
Glock (2017)	Int. J. Prod. Econ.	Selective review	94 | 48
Godinho Filho et al. (2014)	FSM	Selective review	61 | 32
Goensch (2017)	EJOR	Scoping review	43 | 24
Goensch (2020)	EJOR	Scoping review	8 | 3
Golmohammadi and Hassini (2020)	Int. J. Prod. Res.	Selective review	11 | 7
Gondzio (2012)	EJOR	Tutorial review and theoretical review	380 | 155
Gorman et al. (2014)	Interfaces	Selective review	61 | 36
Gourieroux et al. (2017)	Ann. Oper. Res	Selective review	3 | 1
Govindan (2013)	Int. J. Prod. Res.	Scoping review	123 | 57
Govindan et al. (2015)	EJOR	Selective review	1783 | 975
Govindan and Jepsen (2016)	EJOR	Scoping review	470 | 266
Govindan et al. (2017)	EJOR	Scoping review	500 | 290
Govindan and Hasanagic (2018)	Int. J. Prod. Res.	Theoretical review	628 | 336
Greasley and Owen (2018)	Int. J. Oper. Prod. Manag.	Tutorial review	36 | 17
Grieco et al. (2021)	JORS	Scoping review	27 | 9
Groesser and Schaffernicht (2012)	Syst. Dyn. Rev.	Selective review	128 | 55
Grosse et al. (2015)	Int. J. Prod. Econ.	Meta-analysis	90 | 50
Guajardo and Ronnqvist (2016)	ITOR	Selective review	226 | 118
Guastaroba et al. (2016)	Transp. Sci.	Selective review	85 | 44
Gudwin (2019)		Selective review	1 | 1

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Guenin (2016)	Discret. Appl. Math.	Selective review	1 | 0
Gunasekaran and Ngai (2012)	Int. J. Prod. Econ.	Tutorial review	238 | 106
Gunasekaran et al. (2015)	Int. J. Prod. Econ.	Selective review	233 | 92
Gunasekaran et al. (2019)	Int. J. Prod. Res.	Selective review	112 | 49
Gunawan et al. (2016)	EJOR	Selective review	495 | 266
Gupta et al. (2019)	Ann. Oper. Res	Scoping review	84 | 36
Gupta et al. (2020)	Int. J. Prod. Res.	Scoping review	128 | 58
Gutjahr and Nolz (2016)	EJOR	Selective review	215 | 125
Gutjahr and Pichler (2016)	Ann. Oper. Res	Selective review	156 | 77
Haghani and Sarvi (2018)	TRANSPORT RES B-METH	Selective review	197 | 127
Hahn and Kuhn (2012)	DSS	Selective review	60 | 24
Han et al. (2020b)	Int. J. Prod. Res.	Scoping review	58 | 35
Han et al. (2020a)	Int. J. Oper. Prod. Manag.	Selective review	15 | 4
Hanafi and Todosijevic (2017)	J. Heuristics	Selective review	11 | 5
Harkonen et al. (2015)	Int. J. Prod. Econ.	Scoping review	77 | 26
Hasle et al. (2012)	Int. J. Oper. Prod. Manag.	Qualitative systematic review	344 | 142
Hasni et al. (2019)	Int. J. Prod. Res.	Scoping review	43 | 25
Hassin and Sarid (2018)	EJOR	Scoping review	7 | 5
Hassini et al. (2012)	Int. J. Prod. Econ.	Scoping review	1253 | 600
Hatami-Marbini et al. (2011)	EJOR	Scoping review	460 | 273
Hazir and Ulusoy (2020)	Int. J. Prod. Econ.	Scoping review	43 | 16
Heil et al. (2020)	EJOR	Scoping review	44 | 21

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Hellmann and Staudigl (2014)	EJOR	Theoretical review	69 | 39
Hietschold et al. (2014)	Int. J. Prod. Res.	Qualitative systematic review	239 | 73
Hinz et al. (2017)	Discret. Appl. Math.	Selective review	59 | 35
Ho et al. (2015)	Int. J. Prod. Res.	Selective review	1009 | 476
Ho et al. (2018)	TRANSPORT RES B-METH	Selective review	311 | 153
Ho and Ma (2018)	EJOR	Selective review	306 | 159
Hogenboom et al. (2016)	DSS	Scoping review	135 | 55
Hojny et al. (2020)	Ann. Oper. Res	Theoretical review	11 | 4
Hong et al. (2017)	DSS	Meta-analysis	276 | 158
Howick and Ackermann (2011)	EJOR	Selective review	157 | 87
Hu et al. (2018b)	ITOR	Scoping review	51 | 22
Hu et al. (2018a)	EJOR	Scoping review	129 | 55
Huang et al. (2012)	EJOR	Scoping review	172 | 109
Huang et al. (2013)	DA	Selective review	280 | 157
Hudson et al. (2015)	Int. J. Prod. Res.	Tutorial review	43 | 22
Hwang and Lin (2018)	COR	Selective review	10 | 7
Ibarra-Rojas et al. (2015)	TRANSPORT RES B-METH	Scoping review	556 | 306
Ide and Schoebel (2016)	OR Spectr.	Theoretical review	151 | 90
Illgen and Hoeck (2019)	TRANSPORT RES B-METH	Selective review	112 | 55
Inglis and Zolfaghari (2017)	Interfaces	Selective review	9 | 5
Ingrand and Ghallab (2017)	AI	Selective review	265 | 101
Inman et al. (2013)	IIE TRANS	Selective review	84 | 49
Insua et al. (2020)	EJOR	Selective review	22 | 12
Ivanov et al. (2014)	Int. J. Prod. Res.	Selective review	476 | 284
Ivanov et al. (2017)	Int. J. Prod. Res.	Selective review	423 | 261

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Ivanov and Dolgui (2019)	Int. J. Prod. Res.	Scoping review	205 | 147
Jabbour et al. (2019)	Int. J. Prod. Res.	Selective review	40 | 32
Jaegler et al. (2018)	Int. J. Prod. Res.	Tutorial review	45 | 25
Jaehn and Neumann (2015)	EJOR	Selective review	107 | 63
Jaehn (2016)	EJOR	Scoping review	111 | 69
Jaghbeer et al. (2020)	Int. J. Prod. Res.	Selective review	47 | 24
Jain et al. (2013)	Int. J. Prod. Res.	Scoping review	187 | 87
Jakovac and Peterin (2018)	Discret. Appl. Math.	Selective review	18 | 11
Jalali and Van Nieuwenhuyse (2015)	IIE TRANS	Selective review	84 | 40
Jamshidi et al. (2019)	Int. J. Prod. Res.	Selective review	30 | 16
Janiak et al. (2015)	EJOR	Selective review	104 | 68
Janssen et al. (2016)	Int. J. Prod. Econ.	Selective review	259 | 136
Jin et al. (2016)	Int. J. Prod. Res.	Scoping review	14 | 9
Jin et al. (2020)	AI	Selective review	19 | 4
Jitpaiboon et al. (2016)	Int. J. Prod. Res.	Meta-analysis	23 | 10
Johnes (2015)	EJOR	Scoping review	166 | 72
Jorgensen and Zaccour (2014)	EJOR	Scoping review	224 | 146
Jung et al. (2015)	Ann. Oper. Res	Selective review	5 | 3
Kaffash et al. (2020)	EJOR	Scoping review	61 | 26
Kakhki and Gargeya (2019)	Int. J. Prod. Res.	Scoping review	60 | 28
Kalia (2017)	Int. J. Oper. Prod. Manag.	Tutorial review	46 | 15
Kamalahmadi and Parast (2016)	Int. J. Prod. Econ.	Scoping review	705 | 330
Kamble et al. (2020)	Int. J. Prod. Econ.	Selective review	342 | 200
Kamble and Gunasekaran (2020)	Int. J. Prod. Res.	Scoping review	96 | 41
Kao (2014)	EJOR	Scoping review	544 | 323

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Karagozoglu and Urhan (2017)	Group Decis. Negot.	Qualitative systematic review	30 | 13
Karsu and Morton (2015)	EJOR	Selective review	113 | 59
Kauppi (2013)	Int. J. Oper. Prod. Manag.	Selective review	202 | 96
Kavadias and Ulrich (2020)	M&SOM	Selective review	16 | 7
Keizer et al. (2017)	EJOR	Selective review	271 | 175
Keller and Buscher (2015)	EJOR	Scoping review	86 | 54
Keskinocak and Savva (2020)	M&SOM	Selective review	43 | 16
Khan et al. (2011)	Int. J. Prod. Econ.	Selective review	285 | 160
Khatami et al. (2020)	EJOR	Computational review	11 | 5
Kim and Fortado (2021)	Int. J. Prod. Res.	Qualitative systematic review	9 | 6
Kim and Kim (2016)	Ann. Oper. Res	Selective review	115 | 43
Kleijnen (2014)	JOS	Selective review	50 | 27
Kleijnen (2017)	EJOR	Selective review	237 | 155
Klein et al. (2020)	EJOR	Selective review	61 | 21
Koc et al. (2016)	EJOR	Scoping review	245 | 136
Koc and Laporte (2018)	COR	Scoping review	94 | 49
Koc et al. (2020)	COR	Scoping review	55 | 27
Kolm et al. (2014)	EJOR	Tutorial review	505 | 222
Komaki et al. (2019)	Int. J. Prod. Res.	Scoping review	60 | 42
Kontorinaki et al. (2017)	TRANSPORT RES B-METH	Computational review	51 | 37
Kovacevic and Pflug (2014)	EJOR	Theoretical review	52 | 20
Kovacs and Moshtari (2019)	EJOR	Meta review	66 | 38
Kravchenko and Werner (2011)	J. Sched.	Selective review	68 | 37
Kress and Pesch (2012)	EJOR	Selective review	144 | 74

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Kress et al. (2018)	OR Spectr.	Selective review	12 | 7
Kumar and Ramachandran (2016)	Int. J. Prod. Res.	Selective review	34 | 20
Kumar (2019)	Int. J. Prod. Res.	Selective review	81 | 42
Kumar et al. (2020)	Int. J. Prod. Res.	Selective review	32 | 19
Kunc et al. (2020)	JORS	Selective review	26 | 12
Kuo and Kusiak (2019)	Int. J. Prod. Res.	Selective review	141 | 92
Kusumastuti et al. (2016)	Int. J. Prod. Econ.	Selective review	101 | 60
Lahyani et al. (2015)	EJOR	Selective review	305 | 142
Laporte et al. (2018)	Ann. Oper. Res	Selective review	71 | 43
Larranaga et al. (2012)	J. Heuristics	Selective review	90 | 60
Leao et al. (2020)	EJOR	Selective review	59 | 32
Lee and Song (2017)	TRANSPORT RES B-METH	Tutorial review	267 | 146
Lehnfeld and Knust (2014)	EJOR	Selective review	168 | 105
Leitner and Leopold-Wildburger (2011)	EJOR	Selective review	54 | 23
Lejeune et al. (2019)	EJOR	Tutorial review	31 | 11
Leung and Li (2016)	Int. J. Prod. Econ.	Scoping review	37 | 23
Li et al. (2011)	Math. Methods Oper. Res.	Scoping review	391 | 198
Li (2012)	DSS	Selective review	394 | 154
Li et al. (2014)	EJOR	Selective review	31 | 16
Li and Zhu (2014)	EJOR	Selective review	14 | 10
Li et al. (2017)	COR	Computational review	83 | 58
Li et al. (2020)	Int. J. Prod. Econ.	Selective review	46 | 26
Liang et al. (2021)	Int. J. Prod. Res.	Scoping review	25 | 20
Liberopoulos and Andrianesis (2016)	Oper. Res.	Theoretical review	80 | 36
Lightfoot et al. (2013)	Int. J. Oper. Prod. Manag.	Scoping review	534 | 25

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Lim et al. (2018)	Ann. Oper. Res	Scoping review	64 | 47
Lin and Lee (2011)	Int. J. Prod. Res.	Scoping review	81 | 38
Lin et al. (2011)	AI	Selective review	228 | 67
Lin and Gen (2018)	Int. J. Prod. Res.	Selective review	48 | 23
Liu and Ceder (2017)	TRANSPORT RES B-METH	Scoping review	27 | 23
Liu et al. (2019)	Int. J. Prod. Res.	Selective review	193 | 98
Locatelli and Schoen (2012)	EJOR	Tutorial review	13 | 9
Lonati et al. (2018)	J. Oper. Manag.	Tutorial review	130 | 80
Long and Meadows (2018)	JOS	Scoping review	28 | 16
Lopes et al. (2013)	ITOR	Scoping review	119 | 63
Lorentziadis (2016)	EJOR	Selective review	42 | 22
Lu et al. (2015)	DSS	Scoping review	1347 | 670
Luo et al. (2014)	Oper. Res. Lett.	Algorithmic review	10 | 4
Lusby et al. (2011)	OR Spectr.	Selective review	363 | 157
Lusby et al. (2018)	EJOR	Selective review	104 | 51
Lust and Teghem (2012)	ITOR	Algorithmic review	171 | 76
Ma et al. (2019)	Int. J. Prod. Res.	Scoping review	32 | 18
Maestrini et al. (2017)	Int. J. Prod. Econ.	Selective review	290 | 131
Mahmoudi and Parviziomran (2020)	Int. J. Prod. Econ.	Scoping review	52 | 24
Mahut et al. (2017)	Int. J. Prod. Res.	Selective review	100 | 41
Malik et al. (2018)	Ann. Oper. Res	Selective review	85 | 30
Manerba et al. (2017)	EJOR	Tutorial review	62 | 32
Mani et al. (2017)	Int. J. Prod. Res.	Selective review	169 | 97
Mansini et al. (2014)	EJOR	Scoping review	217 | 98
Mantena et al. (2012)	DSS	Selective review	21 | 12
Mariz et al. (2018)	ITOR	Selective review	59 | 39
Marques et al. (2013)	JORS	Selective review	116 | 63
Marti et al. (2013)	EJOR	Selective review	171 | 88
Martinez-Costa et al. (2014)	Int. J. Prod. Econ.	Selective review	144 | 64

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Martins et al. (2018)	FSM	Selective review	12 | 2
Marttunen et al. (2017)	EJOR	Selective review	306 | 161
Marttunen et al. (2018)	EJOR	Meta-analysis	63 | 39
Marynissen and Demeulemeester (2019)	EJOR	Selective review	82 | 33
Masae et al. (2020)	Int. J. Prod. Econ.	Scoping review	85 | 45
Masmoudi and Ben Abdelaziz (2018)	Ann. Oper. Res	Selective review	38 | 25
Matl et al. (2018)	Transp. Sci.	Selective review and theoretical review and computational review	66 | 38
Matthews and Marzec (2012)	Int. J. Prod. Res.	Selective review	94 | 43
Melega et al. (2018)	EJOR	Selective review	72 | 44
Menafoglio and Secchi (2017)	EJOR	Selective review	51 | 29
Mencarelli and D'Ambrosio (2019)	ITOR	Selective review	16 | 7
Meng et al. (2014)	Transp. Sci.	Scoping review	398 | 263
Meng and Lu (2017)	TRANSPORT RES B-METH	Selective review	15 | 12
Miettinen (2014)	OR Spectr.	Tutorial review	142 | 76
Mihalache and Mihalache (2016)	DA	Scoping review	84 | 40
Milan et al. (2019)	COR	Selective review	60 | 32
Misic and Perakis (2020)	M&SOM	Selective review	78 | 37
Modgil et al. (2020)	Ann. Oper. Res	Selective review	40 | 27
Moench et al. (2011)	J. Sched.	Tutorial review	353 | 215
Moench et al. (2018a)	Int. J. Prod. Res.	Selective review	75 | 34
Moench et al. (2018b)	Int. J. Prod. Res.	Selective review	54 | 24
Mokhtar et al. (2019)	Int. J. Prod. Econ.	Tutorial review	53 | 23

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Molenbruch et al. (2017)	Ann. Oper. Res	Scoping review	146 | 73
Mondal et al. (2014)	Int. J. Prod. Res.	Scoping review	40 | 25
Montoyo et al. (2012)	DSS	Selective review	295 | 123
Morana et al. (2017)	DSS	Scoping review	69 | 20
Morgan and Gagnon (2013)	Int. J. Prod. Res.	Selective review	80 | 55
Mortenson et al. (2015)	EJOR	Scoping review	268 | 121
Mostafaie et al. (2020)	COR	Selective review	26 | 10
Mou et al. (2018)	EJOR	Selective review	149 | 68
Mourad et al. (2019)	TRANSPORT RES B-METH	Selective review	168 | 76
Moyano-Fuentes and Sacristan-Diaz (2012)	Int. J. Oper. Prod. Manag.	Scoping review	358 | 143
Mundi et al. (2019)	Int. J. Prod. Res.	Scoping review	18 | 11
Murthy et al. (2020)	Ann. Oper. Res	Theoretical review	1 | 1
Nakano and Akikawa (2014)	Int. J. Prod. Econ.	Scoping review	33 | 14
Napoleone et al. (2018)	Int. J. Prod. Res.	Selective review	45 | 23
Narayanamurthy and Gurumurthy (2016)	Int. J. Oper. Prod. Manag.	Scoping review	138 | 67
Narbon-Perpina and De Witte (2018a)	ITOR	Qualitative systematic review	169 | 99
Narbon-Perpina and De Witte (2018b)	ITOR	Qualitative systematic review	129 | 64
Nascimento and de Carvalho (2011)	EJOR	Computational review	227 | 103
Negahban and Yilmaz (2014)	JOS	Scoping review	77 | 41
Netland and Aspelund (2014)	Int. J. Oper. Prod. Manag.	Selective review	78 | 37
Neufeld et al. (2016)	COR	Selective review	86 | 57
Ngai et al. (2011)	DSS	Selective review	1179 | 431

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Nightingale (2011)	AI	Algorithmic review	16 | 7
Nisafani et al. (2020)	J. Decis. Syst.	Scoping review	38 | 11
Niu et al. (2021)	Int. J. Prod. Res.	Selective review	8 | 6
Nobel (2016)	Ann. Oper. Res	Selective review	13 | 3
Noroozi and Wikner (2017)	Int. J. Prod. Econ.	Scoping review	77 | 30
Noshad and Awasthi (2015)	Int. J. Prod. Res.	Scoping review	67 | 25
Ntabe et al. (2015)	Int. J. Prod. Econ.	Selective review	167 | 58
Nunez-Merino et al. (2020)	Int. J. Prod. Res.	Scoping review	115 | 71
Olesen and Petersen (2016)	EJOR	Selective review	199 | 114
Oliveira et al. (2016)	Ann. Oper. Res	Selective review	60 | 28
Ormerod and Ulrich (2013)	EJOR	Selective review	84 | 38
Ortiz-Astorquiza et al. (2018)	EJOR	Scoping review	97 | 44
Osorio et al. (2015)	Int. J. Prod. Res.	Selective review	185 | 89
Osterrieder et al. (2020)	Int. J. Prod. Econ.	Scoping review	223 | 101
Oyola et al. (2017)	EURO J. Transp. Logist.	Selective review	78 | 32
Oyola et al. (2018)	EURO J. Transp. Logist.	Selective review	113 | 46
Ozceylan et al. (2019)	Int. J. Prod. Res.	Scoping review	148 | 98
Pahl and Voss (2014)	EJOR	Selective review	165 | 98
Pala and Zhuang (2019)	DA	Scoping review	22 | 12
Pan and Ruiz (2013)	COR	Computational review	128 | 78
Pan et al. (2019)	Int. J. Prod. Res.	Scoping review	119 | 63
Pandey et al. (2017)	Interfaces	Selective review	14 | 7
Pantuso et al. (2014)	EJOR	Selective review	132 | 69
Panwalkar et al. (2013)	Nav. Res. Logist.	Selective review	53 | 41
Papageorgiou et al. (2014)	EJOR	Computational review	110 | 56

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Pape (2015)	EJOR	Algorithmic review and computational review	57 | 41
Paraskevopoulos et al. (2017)	EJOR	Scoping review	86 | 43
Parente et al. (2020)	Int. J. Prod. Res.	Scoping review	66 | 38
Paterson et al. (2011)	EJOR	Selective review	481 | 230
Peeters and van Ooijen (2020)	Int. J. Prod. Res.	Scoping review	26 | 9
Pelissari et al. (2020)	Ann. Oper. Res	Scoping review	72 | 39
Pellerin and Perrier (2019)	Int. J. Prod. Res.	Selective review	64 | 24
Pellerin et al. (2020)	EJOR	Selective review	123 | 73
Pelletier et al. (2016)	Transp. Sci.	Selective review	295 | 152
Pelletier et al. (2017)	TRANSPORT RES B-METH	Selective review	271 | 148
Pentico and Drake (2011)	EJOR	Selective review	154 | 65
Pereira et al. (2020)	Int. J. Prod. Econ.	Selective review	36 | 15
Perera et al. (2020)	Int. J. Oper. Prod. Manag.	Selective review	36 | 22
Perez et al. (2015)	Ann. Oper. Res	Scoping review	150 | 85
Perez Perez et al. (2016)	Int. J. Prod. Res.	Selective review	68 | 32
Perez-Salazar et al. (2019)	Int. J. Prod. Res.	Selective review	26 | 15
Perrier et al. (2013a)	COR	Selective review	52 | 29
Perrier et al. (2013b)	COR	Selective review	47 | 23
Peters et al. (2018)	Int. J. Prod. Res.	Selective review	23 | 11
Pham et al. (2015)	EJOR	Selective review	92 | 51
Pickardt and Branke (2012)	Int. J. Prod. Res.	Computational review	41 | 26
Pillac et al. (2013)	EJOR	Scoping review	1347 | 606
Pillay (2014)	Ann. Oper. Res	Selective review	158 | 61
Pillay (2016)	Ann. Oper. Res	Selective review	83 | 38
Pinho and Mendes (2017)	Int. J. Prod. Res.	Scoping review	57 | 36
Piraban et al. (2019)	COR	Scoping review	76 | 33

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Pirim et al. (2012)	COR	Selective review	118 | 62
Piu and Speranza (2014)	ITOR	Scoping review	55 | 21
Pop (2020)	EJOR	Scoping review	38 | 19
Pourhabibi et al. (2020)	DSS	Selective review	102 | 42
Powell (2013)	Int. J. Oper. Prod. Manag.	Selective review	85 | 36
Powell (2019)	EJOR	Scoping review	177 | 75
Pradeepkumar and Ravi (2018)	COR	Selective review	59 | 34
Prakken and Sartor (2015)	AI	Selective review	133 | 52
Prieto-Rumeau and Hernandez-Lerma (2016)	Ann. Oper. Res	Theoretical review	11 | 3
Prodhon and Prins (2014)	EJOR	Computational review	687 | 340
Prot and Bellenguez-Morineau (2018)	J. Sched.	Selective review	27 | 17
Qi et al. (2020)	Nav. Res. Logist.	Selective review	13 | 2
Qin et al. (2011)	EJOR	Theoretical review	490 | 260
Queiroz et al. (2022)	Ann. Oper. Res	Selective review	473 | 251
Raap et al. (2019)	COR	Selective review	10 | 2
Rahmaniani et al. (2017)	EJOR	Scoping review	523 | 271
Rahwan et al. (2015)	AI	Selective review	171 | 90
Rais and Viana (2011)	ITOR	Scoping review	448 | 170
Rajaeian et al. (2017)	DSS	Scoping review	50 | 16
Rashidi (2017)	JOS	Selective review	13 | 6
Rasouli (2019)	Int. J. Prod. Res.	Scoping review	26 | 15
Rasti and Vogiatzis (2019)	Ann. Oper. Res	Scoping review	12 | 6
Rathore et al. (2017)	DA	Selective review	90 | 49
Ravelomanantsoa et al. (2019)	Int. J. Prod. Res.	Scoping review	35 | 16
Rego et al. (2011)	EJOR	Computational review	303 | 118
Ren and Huang (2018)	COR	Selective review	50 | 33
Rezaei-Malek et al. (2019)	Int. J. Prod. Res.	Selective review	31 | 17

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Ribeiro-Soriano and Kraus (2018)	Group Decis. Negot.	Selective review	11 | 7
Ritzinger et al. (2016)	Int. J. Prod. Res.	Scoping review	371 | 202
Rodriguez et al. (2020)	Int. J. Prod. Econ.	Scoping review	18 | 7
Rojas-Gonzalez and Van Nieuwenhuyse (2020)	COR	Selective review	37 | 17
Rosa et al. (2020)	Int. J. Prod. Res.	Scoping review	267 | 152
Rossit et al. (2019)	COR	Computational review	22 | 12
Roungkvist and Enevoldsen (2020)	Int. J. Forecast.	Selective review	17 | 7
Roy (2016)	Int. J. Prod. Res.	Selective review	37 | 26
Roy et al. (2018)	Int. J. Oper. Prod. Manag.	Scoping review	118 | 69
Rubin and Watson (2011)	AI	Scoping review	139 | 45
Russo et al. (2020)	ITOR	Theoretical review and algorithmic review	11 | 9
Rustogi and Strusevich (2012)	EJOR	Algorithmic review	64 | 35
Sabbaghtorkan et al. (2020)	EJOR	Scoping review	74 | 37
Safarishahrbijari (2018)	Int. J. Forecast.	Selective review	23 | 9
Sahin et al. (2013)	Int. J. Prod. Res.	Tutorial review	123 | 59
Salih et al. (2019)	COR	Scoping review	150 | 88
Samuel et al. (2015)	Int. J. Oper. Prod. Manag.	Selective review	191 | 62
Santander-Mercado and Jubiz-Diaz (2016)	Int. J. Prod. Res.	Scoping review	23 | 15
Saputro et al. (2015)	Int. J. Prod. Res.	Scoping review	23 | 7
Sarker (2014)	Int. J. Prod. Econ.	Scoping review	57 | 38
Sarkis et al. (2011)	Int. J. Prod. Econ.	Selective review	2284 | 1058

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Sartor et al. (2016)	Int. J. Prod. Econ.	Scoping review	81 | 34
Scheepmaker et al. (2017)	EJOR	Scoping review	260 | 170
Schiffer et al. (2019)	Transp. Sci.	Scoping review	91 | 52
Schmid et al. (2013)	EJOR	Selective review	128 | 68
Schmid and Limere (2019)	Int. J. Prod. Res.	Selective review	33 | 16
Schmidt (2011)	EJOR	Selective review	26 | 13
Schneider and Drexl (2017)	Ann. Oper. Res	Selective review	127 | 53
Schryen and Hristova (2015)	OR Spectr.	Scoping review	4 | 2
Schryen (2020)	EJOR	Selective review	21 | 8
Segev (2020)	EJOR	Scoping review	41 | 20
Seifert et al. (2013)	EJOR	Scoping review	326 | 206
Selviaridis and Wynstra (2015)	Int. J. Prod. Res.	Scoping review	224 | 107
Sen et al. (2016)	Ann. Oper. Res	Scoping review	9 | 3
Seuring (2013)	DSS	Selective review	1153 | 582
Shabtay et al. (2013)	J. Sched.	Theoretical review	174 | 142
Shafiee and Chukova (2013)	EJOR	Scoping review	248 | 138
Sharma et al. (2020)	COR	Scoping review	210 | 110
Shen and Li (2017)	ITOR	Selective review	44 | 28
Shen et al. (2019a)	Int. J. Prod. Res.	Selective review	173 | 133
Shen et al. (2019b)	TRANSPORT RES B-METH	Selective review	95 | 58
Shi and Yu (2013)	Int. J. Oper. Prod. Manag.	Scoping review	151 | 58
Shi et al. (2014)	Ann. Oper. Res	Selective review	116 | 52
Shin et al. (2015)	EJOR	Selective review	90 | 48
Shioura et al. (2018)	EJOR	Scoping review	35 | 23
Shou et al. (2017)	Int. J. Prod. Res.	Scoping review	123 | 47
Shukla and Jharkharia (2013)	Int. J. Oper. Prod. Manag.	Scoping review	472 | 222
Si et al. (2011)	EJOR	Selective review	1874 | 1087
Silva et al. (2016)	ITOR	Selective review	39 | 19
Simangunsong et al. (2012)	Int. J. Prod. Res.	Scoping review	432 | 194

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Singhal et al. (2019)	Int. J. Prod. Res.	Meta-analysis	59 | 45
Slotnick (2011)	EJOR	Scoping review	277 | 162
Smart et al. (2017)	Int. J. Oper. Prod. Manag.	Scoping review	54 | 34
Smeulders et al. (2019)	EJOR	Tutorial review	11 | 4
Smith and Shaw (2019)	EJOR	Selective review	69 | 40
Smith and Song (2020)	EJOR	Scoping review	80 | 38
Smith-Miles and Lopes (2012)	COR	Scoping review	207 | 100
Snyder et al. (2016)	IIE TRANS	Scoping review	730 |376
Soheilirad et al. (2018)	Ann. Oper. Res	Scoping review	86 | 50
Soto-Silva et al. (2016)	EJOR	Scoping review	237 | 118
Souza (2013)	DA	Tutorial review	624 | 371
Spanaki et al. (2018)	Int. J. Prod. Res.	Selective review	34 | 17
Sprock et al. (2019)	Int. J. Prod. Res.	Selective review	11 | 4
Sriskandarajah and Shetty (2018)	Int. J. Prod. Res.	Selective review	11 | 8
Staudt et al. (2015)	Int. J. Prod. Res.	Selective review	178 | 56
SteadieSeifi et al. (2014)	EJOR	Selective review	703 | 334
Steeneck and Sarin (2013)	Int. J. Prod. Res.	Selective review	59 | 36
Stern (2019)		Scoping review	30 | 10
Stindt and Sahamie (2014)	FSM	Selective review	152 | 81
Strauss et al. (2018)	EJOR	Selective review	115 | 40
Subramanian and Ramanathan (2012)	Int. J. Prod. Econ.	Selective review	697 | 311
Sun et al. (2018)	Int. J. Prod. Res.	Theoretical review	28 | 20
Sun et al. (2019)	Int. J. Prod. Res.	Scoping review	40 | 18
Sunder et al. (2018)	Int. J. Oper. Prod. Manag.	Scoping review	119 | 82
Syntetos et al. (2016)	EJOR	Scoping review	258 | 113
Szejka et al. (2017)	Int. J. Prod. Res.	Tutorial review	32 | 14
Tang and Zhou (2012)	EJOR	Selective review	447 | 294
Tao et al. (2011)	Int. J. Prod. Res.	Scoping review	93 | 63
Taylor (2019)	EJOR	Tutorial review	49 | 24

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Tenenhaus and Tenenhaus (2014)	EJOR	Algorithmic review	71 | 39
Thi and Dinh (2018)	Math. Program.	Scoping review	212 | 102
Thibaud et al. (2018)	DSS	Selective review	182 | 77
Thies et al. (2019)	EJOR	Scoping review	89 | 43
Thome et al. (2012)	Int. J. Prod. Econ.	Scoping review	327 | 110
Thuerer et al. (2011)	Int. J. Prod. Res.	Scoping review	110 | 56
Thurer et al. (2020)	Int. J. Prod. Res.	Scoping review	56 | 31
Toimil and Gomez (2017)	ITOR	Selective review	38 | 24
Tol (2013)	JEDC	Selective review	182 | 87
Tran and Haasis (2015)	FSM	Selective review	122 | 62
Trieu (2017)	DSS	Scoping review	300 | 102
Trigeorgis and Tsekrekos (2018)	EJOR	Selective review	117 | 55
Tsui et al. (2012)	IIE TRANS	Algorithmic review	32 | 22
Tu and Piramuthu (2020)	DSS	Selective review	16 | 11
Tukamuhabwa et al. (2015)	Int. J. Prod. Res.	Scoping review	642 | 300
Tuomikangas and Kaipia (2014)	Int. J. Prod. Econ.	Scoping review	206 | 80
Turken et al. (2020)	Int. J. Prod. Res.	Tutorial review	20 | 10
Turkoglu and Genevois (2020)	Ann. Oper. Res	Selective review	41 | 11
Twomey et al. (2020)	J. Decis. Syst.	Selective review	2 | 1
Uriarte et al. (2020)	Int. J. Prod. Res.	Scoping review	46 | 28
Uthus and Aha (2013)	AI	Selective review	104 | 21
Utomo et al. (2018)	EJOR	Selective review	107 | 51
Uzsoy et al. (2018)	Int. J. Prod. Res.	Selective review	38 | 22
Vadlamani et al. (2016)	Int. J. Prod. Econ.	Tutorial review	102 | 58
van Ackooij et al. (2018)	Ann. Oper. Res	Scoping review	110 | 57
Van den Bergh et al. (2013)	EJOR	Selective review	882 | 407
van Doorn and Pollett (2013)	EJOR	Selective review	99 | 48

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
van Gils et al. (2018)	EJOR	Selective review	232 | 108
Van Horenbeek et al. (2013)	Int. J. Prod. Econ.	Selective review	251 | 138
van Kampen et al. (2012)	Int. J. Oper. Prod. Manag.	Selective review	153 | 53
Vansteenwegen et al. (2011)	EJOR	Scoping review	1033 | 524
Vega-Mejia et al. (2019)	Ann. Oper. Res	Selective review	30 | 13
Vega-Velazquez et al. (2018)	Int. J. Prod. Econ.	Selective review	26 | 14
Vidal et al. (2013)	EJOR	Selective review	466 | 226
Vidal et al. (2020)	EJOR	Scoping review	156 | 56
Visentini et al. (2014)	J. Sched.	Selective review	47 | 23
Volling et al. (2013)	EJOR	Selective review	69 | 27
Vosooghidizaji et al. (2020)	Int. J. Prod. Res.	Selective review	69 | 43
Vrielink et al. (2019)	Ann. Oper. Res	Scoping review	53 | 16
Wahab et al. (2015)	DSS	Selective review	150 | 85
Waltho et al. (2019)	Int. J. Prod. Econ.	Selective review	88 | 63
Wamba et al. (2015)	Int. J. Prod. Econ.	Selective review	1627 | 722
Wang et al. (2011)	Int. J. Prod. Res.	Selective review	134 | 87
Wang et al. (2015)	EJOR	Selective review	327 | 177
Wang et al. (2016)	Int. J. Prod. Econ.	Scoping review	1137 | 551
Wang and Disney (2016)	EJOR	Scoping review	346 | 153
Wang et al. (2018b)	Int. J. Prod. Res.	Selective review	75 | 42
Wang et al. (2018c)	TRANSPORT RES B-METH	Scoping review	151 | 69
Wang et al. (2018a)	Int. J. Oper. Prod. Manag.	Meta-analysis	92 | 50
Wang et al. (2019)	Ann. Oper. Res	Computational review	54 | 32
Wang and Yang (2019)	TRANSPORT RES B-METH	Scoping review	226 | 116

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Weber et al. (2011)	EJOR	Theoretical review	48 | 31
Weglarz et al. (2011)	EJOR	Scoping review	327 | 180
Wei and Zhang (2018)	COR	Selective review	48 | 33
Weitzel and Glock (2018)	EJOR	Scoping review	128 | 74
Wen et al. (2019)	Int. J. Prod. Econ.	Selective review	82 | 41
Werner et al. (2017)	EJOR	Selective review	83 | 48
Wetzstein et al. (2016)	Int. J. Prod. Econ.	Scoping review	178 | 97
White et al. (2011)	EJOR	Selective review	88 | 35
Winands et al. (2011)	EJOR	Scoping review	119 | 52
Winkelhaus and Grosse (2020)	Int. J. Prod. Res.	Scoping review	328 | 154
Woerbelauer et al. (2019)	OR Spectr.	Theoretical review	18 | 10
Worthington et al. (2020)	JORS	Selective review	7 | 0
Wowak et al. (2013)	DA	Meta-analysis	80 | 51
Wright (2014)	EJOR	Selective review	87 | 41
Wright et al. (2019)	EJOR	Tutorial review	46 | 16
Wu and Parlar (2011)	Int. J. Prod. Econ.	Tutorial review	27 | 8
Wu (2014)	Int. J. Prod. Res.	Selective review	53 | 33
Wu and Hao (2015)	EJOR	Scoping review	266 | 142
Wu et al. (2020)	DSS	Selective review	127 | 43
Wudhikarn et al. (2018)	Int. J. Prod. Res.	Scoping review	36 | 18
Xia and Cao (2012)	EJOR	Scoping review	30 | 17
Xu et al. (2011)	EJOR	Scoping review	94 | 54
Xu (2012)	Ann. Oper. Res	Selective review	109 | 74
Xu et al. (2015)	IIE TRANS	Selective review	9 | 6
Xu et al. (2020)	Int. J. Prod. Econ.	Meta-analysis	29 | 9
Yadav and Jayswal (2018)	Int. J. Prod. Res.	Tutorial review	86 | 39
Yanikoglu et al. (2019)	EJOR	Tutorial review	178 | 93
Yao and Askin (2019)	Int. J. Prod. Res.	Selective review	42 | 26

Table 12 (cont'd)

Reference	Journal (abbrev.)	LR type(s)	No. of citations (as of 08/04/22) Google Scholar | Web of Science
Yelles-Chaouche et al. (2021)	Int. J. Prod. Res.	Selective review	41 | 26
Yu et al. (2015)	Int. J. Prod. Econ.	Meta-analysis	94 | 52
Yugma et al. (2015)	J. Sched.	Selective review	61 | 31
Zennaro et al. (2019)	Int. J. Prod. Res.	Selective review	56 | 29
Zhang et al. (2011b)	Int. J. Oper. Prod. Manag.	Qualitative systematic review	214 | 89
Zhang and Wilhelm (2011)	Ann. Oper. Res	Selective review	63 | 31
Zhang et al. (2011a)	Int. J. Prod. Res.	Selective review	69 | 26
Zhang (2011)	J. Heuristics	Computational review	267 | 164
Zhang (2014)	Int. J. Prod. Res.	Scoping review	140 | 69
Zhang (2015)	Int. J. Prod. Econ.	Scoping review	50 | 26
Zhang and Benyoucef (2016)	DSS	Selective review	513 | 214
Zhang et al. (2018)	EJOR	Selective review	305 | 214
Zhang et al. (2019)	Int. J. Prod. Res.	Scoping review	21 | 14
Zhao and Huchzermeier (2015)	EJOR	Selective review	87 | 61
Zhao et al. (2016)	ITOR	Computational review	113 | 51
Zhou et al. (2013)	JORS	Selective review	136 | 64
Zhou and Wen (2020)	EJOR	Scoping review	44 | 30
Zhu et al. (2018)	Int. J. Prod. Res.	Selective review	145 | 86
Zimmer et al. (2016)	Int. J. Prod. Res.	Tutorial review	368 | 193
Zografos et al. (2017)	J. Sched.	Scoping review	83 | 46
Zohrizadeh et al. (2020)	EJOR	Selective review	41 | 17
Zopounidis et al. (2015)	EJOR	Selective review	131 | 72
Zopounidis et al. (2018)	EDDP	Selective review	18 | 7

Table 13: OR literature reviews with multiple types.

Reference	Journal (abbrev.)	LR type(s)
Bao et al. (2011)	Math. Program.	Theoretical review and computational review
DeYong (2020)	Int. J. Prod. Res.	Selective review and theoretical review
Edis et al. (2013)	EJOR	Selective review and theoretical review
Gondzio (2012)	EJOR	Tutorial review and theoretical review
Matl et al. (2018)	Transp. Sci.	Selective review, theoretical review and computational review
Pape (2015)	EJOR	Algorithmic review and computational review
Russo et al. (2020)	ITOR	Theoretical review and algorithmic review

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