Alexandre Dolgui

List of Publications by Citations

392 papers	11,842 citations	51 h-index	96 g-index
437 ext. papers	14,691 ext. citations	4.7 avg, IF	7.88 L-index

#	Paper	IF	Citations
392	The impact of digital technology and Industry 4.0 on the ripple effect and supply chain risk analytics. *International Journal of Production Research*, **2019**, 57, 829-846	7.8	549
391	Viability of intertwined supply networks: extending the supply chain resilience angles towards survivability. A position paper motivated by COVID-19 outbreak. *International Journal of Production Research*, **2020**, 58, 2904-2915	7.8	495
390	A taxonomy of line balancing problems and their solutionapproaches. *International Journal of Production Economics*, **2013**, 142, 259-277	9.3	427
389	Review of quantitative methods for supply chain resilience analysis. *Transportation Research, Part E: Logistics and Transportation Review*, **2019**, 125, 285-307	9	343
388	A dynamic model and an algorithm for short-term supply chain scheduling in the smart factory industry 4.0. *International Journal of Production Research*, **2016**, 54, 386-402	7.8	338
387	The Ripple effect in supply chains: trade-off efficiency-flexibility-resilience in disruption management. *International Journal of Production Research*, **2014**, 52, 2154-2172	7.8	330
386	Ripple effect in the supply chain: an analysis and recent literature. *International Journal of Production Research*, **2018**, 56, 414-430	7.8	316
385	Literature review on disruption recovery in the supply chain*. *International Journal of Production Research*, **2017**, 55, 6158-6174	7.8	296
384	Impacts of epidemic outbreaks on supply chains: mapping a research agenda amid the COVID-19 pandemic through a structured literature review. *Annals of Operations Research*, **2020**, 1-38	3.2	256
383	A digital supply chain twin for managing the disruption risks and resilience in the era of Industry 4.0. *Production Planning and Control*, **2021**, 32, 775-788	4.3	238
382	A stochastic model for operating room planning with elective and emergency demand for surgery. *European Journal of Operational Research*, **2008**, 185, 1026-1037	5.6	226
381	State of art of optimization methods for assembly line design. *Annual Reviews in Control*, **2002**, 26, 163-174	7.3	197
380	Blockchain-oriented dynamic modelling of smart contract design and execution in the supply chain. *International Journal of Production Research*, **2020**, 58, 2184-2199	7.8	187
379	Low-Certainty-Need (LCN) supply chains: a new perspective in managing disruption risks and resilience. *International Journal of Production Research*, **2019**, 57, 5119-5136	7.8	156
378	Reconfigurable supply chain: the X-network. *International Journal of Production Research*, **2020**, 58, 4138-4163	7.8	146
377	Scheduling in production, supply chain and Industry 4.0 systems by optimal control: fundamentals, state-of-the-art and applications. *International Journal of Production Research*, **2019**, 57, 411-432	7.8	142
376	Does the ripple effect influence the bullwhip effect? An integrated analysis of structural and operational dynamics in the supply chain. This is an extended version of the conference paper: Rozhkov M., B., and D. Ivanov. 2018. Contingency Production-Inventory Control Policies for Capacity Disruptions in the Retail Supply Chain with Perishable Products. 16th IFAC Symposium on Information Control Problems in Manufacturing INCOM 2018, IFAC-PapersOnLine 51 (11): 1448–1452.View all notes. *International Journal of Production Research*, **2020**, 58, 1285-1301	7.8	140

375	Supply planning under uncertainties in MRP environments: A state of the art. *Annual Reviews in Control*, **2007**, 31, 269-279	10.3	135
374	OR-methods for coping with the ripple effect in supply chains during COVID-19 pandemic: Managerial insights and research implications. *International Journal of Production Economics*, **2021**, 232, 107921	9.3	130
373	Researchers' perspectives on Industry 4.0: multi-disciplinary analysis and opportunities for operations management. *International Journal of Production Research*, **2021**, 59, 2055-2078	7.8	123
372	Supply Chain Engineering **2010**,		120
371	Disruption-driven supply chain (re)-planning and performance impact assessment with consideration of pro-active and recovery policies. *Transportation Research, Part E: Logistics and Transportation Review*, **2016**, 90, 7-24	9	101
370	Structural quantification of the ripple effect in the supply chain. *International Journal of Production Research*, **2016**, 54, 152-169	7.8	100
369	A survey on control theory applications to operational systems, supply chain management, and Industry 4.0. *Annual Reviews in Control*, **2018**, 46, 134-147	10.3	97
368	An exact solution approach for disassembly line balancing problem under uncertainty of the task processing times. *International Journal of Production Research*, **2015**, 53, 1807-1818	7.8	95
367	Recent advances and opportunities in sustainable food supply chain: a model-oriented review. *International Journal of Production Research*, **2018**, 56, 5700-5722	7.8	94
366	A sample average approximation method for disassembly line balancing problem under uncertainty. *Computers and Operations Research*, **2014**, 51, 111-122	4.6	93
365	A model for supply planning under lead time uncertainty. *International Journal of Production Economics*, **2002**, 78, 145-152	9.3	87
364	Applicability of optimal control theory to adaptive supply chain planning and scheduling. *Annual Reviews in Control*, **2012**, 36, 73-84	10.3	86
363	Assembly line balancing under uncertainty: Robust optimization models and exact solution method. *Computers and Industrial Engineering*, **2013**, 65, 261-267	6.4	80
362	Ripple effect modelling of supplier disruption: integrated Markov chain and dynamic Bayesian network approach. *International Journal of Production Research*, **2020**, 58, 3284-3303	7.8	78
361	Blockchain in transport and logistics paradigms and transitions. *International Journal of Production Research*, **2020**, 58, 2054-2062	7.8	77
360	Ergonomics in assembly line balancing based on energy expenditure: a multi-objective model. *International Journal of Production Research*, **2016**, 54, 824-845	7.8	76
359	. *IEEE Transactions on Engineering Management*, **2018**, 65, 303-315	2.6	74
358	Stability analysis of an optimal balance for an assembly line with fixed cycle time. *European Journal of Operational Research*, **2006**, 168, 783-797	5.6	71

357	MIP approach to balancing transfer lines with blocks of parallel operations. *IIE Transactions*, **2006**, 38, 869-882		70
356	Dynamic recovery policies for time-critical supply chains under conditions of ripple effect. *International Journal of Production Research*, **2016**, 54, 7245-7258	7.8	64
355	Scheduling of recovery actions in the supply chain with resilience analysis considerations. *International Journal of Production Research*, **2018**, 56, 6473-6490	7.8	64
354	Ripple effect quantification by supplier risk exposure assessment. *International Journal of Production Research*, **2020**, 58, 5559-5578	7.8	63
353	Lateral inventory transshipment problem in online-to-offline supply chain. *International Journal of Production Research*, **2016**, 54, 1951-1963	7.8	61
352	Ripple effect and supply chain disruption management: new trends and research directions. *International Journal of Production Research*, **2021**, 59, 102-109	7.8	61
351	A multi-period inventory transportation model for tactical planning of food grain supply chain. *Computers and Industrial Engineering*, **2017**, 110, 379-394	6.4	59
350	A special case of transfer lines balancing by graph approach. *European Journal of Operational Research*, **2006**, 168, 732-746	5.6	59
349	Cooperative control in production and logistics. *Annual Reviews in Control*, **2015**, 39, 12-29	10.3	55
348	Second order conic approximation for disassembly line design with joint probabilistic constraints. *European Journal of Operational Research*, **2015**, 247, 957-967	5.6	55
347	A Genetic Algorithm for the Allocation of Buffer Storage Capacities in a Production Line with Unreliable Machines. *Mathematical Modelling and Algorithms*, **2002**, 1, 89-104		55
346	A bibliography of non-deterministic lot-sizing models. *International Journal of Production Research*, **2014**, 52, 2293-2310	7.8	54
345	A solution approach based on beam search algorithm for disassembly line balancing problem. *Journal of Manufacturing Systems*, **2016**, 41, 188-200	9.1	54
344	A review on the buyer–supplier dyad relationships in sustainable procurement context: past, present and future. *International Journal of Production Research*, **2016**, 54, 1443-1462	7.8	52
343	Balancing of simple assembly lines under variations of task processing times. *Annals of Operations Research*, **2012**, 201, 265-286	3.2	51
342	Scheduling with due date assignment under special conditions on job processing. *Journal of Scheduling*, **2012**, 15, 447-456	1.6	51
341	A heuristic approach for transfer lines balancing. *Journal of Intelligent Manufacturing*, **2005**, 16, 159-172	6.7	51
340	HBBA: hybrid algorithm for buffer allocation in tandem production lines. *Journal of Intelligent Manufacturing*, **2007**, 18, 411-420	6.7	50

339	Graph approach for optimal design of transfer machine with rotary table. *International Journal of Production Research*, **2009**, 47, 321-341	7.8	48
338	Dealing with uncertainty in disassembly line design. *CIRP Annals - Manufacturing Technology*, **2014**, 63, 21-24	4.9	47
337	Outsourcing: definitions and analysis. *International Journal of Production Research*, **2013**, 51, 6769-6777	7.8	47
336	Digital Supply Chain Twins: Managing the Ripple Effect, Resilience, and Disruption Risks by Data-Driven Optimization, Simulation, and Visibility. *Profiles in Operations Research*, **2019**, 309-332	1	45
335	Integration of aggregate distribution and dynamic transportation planning in a supply chain with capacity disruptions and the ripple effect consideration. *International Journal of Production Research*, **2015**, 53, 6963-6979	7.8	45
334	Profit-oriented partial disassembly line design: dealing with hazardous parts and task processing times uncertainty. *International Journal of Production Research*, **2018**, 56, 7220-7242	7.8	44
333	A MIP approach for balancing transfer line with complex industrial constraints. *Computers and Industrial Engineering*, **2010**, 58, 393-400	6.4	44
332	Robust balancing of straight assembly lines with interval task times. *Journal of the Operational Research Society*, **2013**, 64, 1607-1613	2	43
331	Supply planning for single-level assembly system with stochastic component delivery times and service-level constraint. *International Journal of Production Economics*, **2008**, 115, 236-247	9.3	43
330	Generalized newsboy model to compute the optimal planned lead times in assembly systems. *International Journal of Production Research*, **2002**, 40, 4401-4414	7.8	43
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321	Decision support for design of reconfigurable rotary machining systems for family part production. *International Journal of Production Research*, **2017**, 55, 1368-1385	7.8	38
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318	A heuristic multi-start decomposition approach for optimal design of serial machining lines. *European Journal of Operational Research*, **2008**, 189, 902-913	5.6	38
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315	Stability measure for a generalized assembly line balancing problem. *Discrete Applied Mathematics*, **2013**, 161, 377-394	1	37
314	Supply chain coordination through integration of innovation effort and advertising support. *Applied Mathematical Modelling*, **2017**, 49, 108-123	4.5	36
313	Reduction approaches for a generalized line balancing problem. *Computers and Operations Research* , **2012**, 39, 2337-2345	4.6	35
312	Scenario based robust line balancing: Computational complexity. *Discrete Applied Mathematics*, **2012**, 160, 1955-1963	1	35
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310	Comparison of exact and heuristic methods for a transfer line balancing problem. *International Journal of Production Economics*, **2009**, 120, 276-286	9.3	34
309	Operations management issues in design and control of hybrid human-robot collaborative manufacturing systems: a survey. *Annual Reviews in Control*, **2020**, 49, 264-276	10.3	34
308	A reactive GRASP and Path Relinking for balancing reconfigurable transfer lines. *International Journal of Production Research*, **2012**, 50, 5213-5238	7.8	33
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306	A control approach to scheduling flexibly configurable jobs with dynamic structural-logical constraints. *IISE Transactions*, **2021**, 53, 21-38	3.3	33
305	Workforce minimization for a mixed-model assembly line in the automotive industry. *International Journal of Production Economics*, **2015**, 170, 489-500	9.3	32
304	A review of cost and profit oriented line design and balancing problems and solution approaches. *Annual Reviews in Control*, **2015**, 40, 14-24	10.3	32

303	Scheduling of truck arrivals, truck departures and shop-floor operation in a cross-dock platform, based on trucks loading plans. *International Journal of Production Economics*, **2017**, 194, 102-112	9.3	32
302	Branch and bound algorithm for a transfer line design problem: Stations with sequentially activated multi-spindle heads. *European Journal of Operational Research*, **2009**, 197, 1119-1132	5.6	32
301	New disruption risk management perspectives in supply chains: digital twins, the ripple effect, and resileanness. *IFAC-PapersOnLine*, **2019**, 52, 337-342	0.7	32
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297	Pricing strategies and models. *Annual Reviews in Control*, **2010**, 34, 101-110	10.3	31
296	Machine learning in manufacturing and industry 4.0 applications. *International Journal of Production Research*, **2021**, 59, 4773-4778	7.8	31
295	Genetic algorithm for balancing reconfigurable machining lines. *Computers and Industrial Engineering*, **2013**, 66, 541-547	6.4	30
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293	Genetic algorithm for supply planning in two-level assembly systems with random lead times. *Engineering Applications of Artificial Intelligence*, **2009**, 22, 906-915	7.2	30
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287	Lagrangian Relaxation for Stochastic Disassembly Line Balancing Problem. *Procedia CIRP*, **2014**, 17, 56-60	1.8	28
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275	Balancing modular transfer lines with serial□parallel activation of spindle heads at stations. *Discrete Applied Mathematics*, **2009**, 157, 68-89	1	23
274	Manipulator motion planning for high-speed robotic laser cutting. *International Journal of Production Research*, **2009**, 47, 5691-5715	7.8	23
273	Balancing lines with CNC machines: A multi-start ant based heuristic. *CIRP Journal of Manufacturing Science and Technology*, **2010**, 2, 176-182	3.4	23
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271	User activity measurement in rating-based online-to-offline (O2O) service recommendation. *Information Sciences*, **2019**, 479, 180-196	7.7	23
270	Supply Chain Design With Disruption Considerations: Review of Research Streams on the Ripple Effect in the Supply Chain. *IFAC-PapersOnLine*, **2015**, 48, 1700-1707	0.7	22
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263	Single-period inventory model for one-level assembly system with stochastic lead times and demand. *International Journal of Production Research*, **2016**, 54, 186-203	7.8	20
262	An exact optimization approach for a transfer line reconfiguration problem. *International Journal of Advanced Manufacturing Technology*, **2014**, 72, 717-727	3.2	20
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260	Multi-stage supply chain scheduling with non-preemptive continuous operations and execution control. *International Journal of Production Research*, **2014**, 52, 4059-4077	7.8	20
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258	Multi-product lot sizing and scheduling on unrelated parallel machines. *IIE Transactions*, **2010**, 42, 514-524		20
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255	Cloud supply chain: Integrating Industry 4.0 and digital platforms in the □upply Chain-as-a-Service□ *Transportation Research, Part E: Logistics and Transportation Review*, **2022**, 160, 102676	9	20
254	Optimal cost design of flow lines with reconfigurable machines for batch production. *International Journal of Production Research*, **2020**, 58, 2937-2952	7.8	19
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251	Planned lead time optimization in material requirement planning environment for multilevel production systems. *Journal of Systems Science and Systems Engineering*, **2008**, 17, 132-155	1.2	19
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246	Some new results on the analysis and simulation of bucket brigades (self-balancing production lines). *International Journal of Production Research*, **2009**, 47, 369-387	7.8	17
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222	Optimisation of the aggregation and execution rates for intersecting operation sets: an example of machining process design. *International Journal of Production Research*, **2020**, 58, 2658-2676	7.8	13
221	CONTROL THEORY APPLICATIONS TO OPERATIONS SYSTEMS, SUPPLY CHAIN MANAGEMENT AND INDUSTRY 4.0 NETWORKS. *IFAC-PapersOnLine*, **2018**, 51, 1536-1541	0.7	13
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215	A multi-objective approach for design of reconfigurable transfer lines. *IFAC-PapersOnLine*, **2016**, 49, 509-514	0.7	12
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212	Minimizing setup costs in a transfer line design problem with sequential operation processing. *International Journal of Production Economics*, **2014**, 151, 186-194	9.3	11
211	Exponential Smoothing for Multi-Product Lot-Sizing With Heijunka and Varying Demand. *Management and Production Engineering Review*, **2014**, 5, 20-26		11
210	Line configuration to minimize setup costs. *Mathematical and Computer Modelling*, **2012**, 55, 2087-2095		11
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