

**Prof. Alexandre DOLGUI**

**PUBLICATIONS**

Dr. Alexandre Dolgui is an IISE Fellow, Distinguished Professor (Full Professor of Exceptional Class in France), and the Head of Automation, Production and Computer Sciences Department at the IMT Atlantique (former Ecole des Mines de Nantes and Telecom Bretagne), France. His research focuses on manufacturing line design, production planning and supply chain optimization. His main results are based on the exact mathematical programming methods and their intelligent coupling with heuristics and metaheuristics algorithms. He is the co-author of **5** books, the co-editor of **26** books or conference proceedings, the author of **317** refereed journal papers, **4** prefaces of books, **35** editorials and **37** book chapters as well as over **450** papers in conference proceedings. He is the *Editor-in-Chief* of the International Journal of Production Research, an *Area Editor* of Computers & Industrial Engineering, past Associate Editor of International Journal of Systems Science (2005-2008), IEEE Transactions on Industrial Informatics (2006-2009) and Omega-the International Journal of Management Science (2009-2012), consulting Editor of the International Journal of Systems Science (2009- ) and Advisory Board Member for Journal Européen des Systèmes Automatisés (2005- ). He is *Member of the Editorial Boards* for **27** other journals, including the International Journal of Production Economics, International Journal of Manufacturing Technology & Management, International Journal of Simulation & Process Modelling, International Journal of Engineering Management & Economics, Journal of Decision Systems, Decision Making in Manufacturing and Service, Risk and Decision Analysis, etc. He is an *Active Fellow of the European Academy for Industrial Management*, *Member of the Board of the International Foundation for Production Research*, former *Chair of IFAC TC 5.2 Manufacturing Modelling for Management and Control (2011-2017, currently a vice chair)*, *Member of IFIP WG 5.7 Advances in Production Management Systems*, *IEEE System Council Analytics and Risk Technical Committee*, Guest editor of special issues of European Journal of Operational Research, International Journal of Production Research, International Journal of Production Economics, Omega – The International Journal of Management Science, Journal of Intelligent Manufacturing, Journal of Mathematical Modeling and Algorithms, and Annual Reviews in Control; he was General Scientific Chair of the 12th IFAC symposium INCOM'06, and IFIP APMS'2021, Chairman of International Program Committee of SCM'02, MOSIM'04, INCOM'09, INCOM'12, IESM'13, MIM'13, INCOM'15, IESM'17, GSC'18, MIM'19 and Chairman of Steering committee of MIM'16. Chairman of Organizing Committee of the International Conference MOSIM'01 and ROADEF'2011; last ten years, he was Member of Program Committees of over **200** International Conferences, etc. He has been responsible of the French national CNRS working group on Design of Production Systems (with about **336** individual members) and the regional project on Design and Management of Reconfigurable Manufacturing Systems.

For more details see [www.researchgate.net/profile/Alexandre\\_Dolgui](http://www.researchgate.net/profile/Alexandre_Dolgui)

Two papers were awarded as Best Paper of year by the Institute of Industrial and Systems Engineering (USA):

**IISE Transactions on Design and Manufacturing Best Paper Award 2022:**

A control approach to scheduling flexibly configurable jobs with dynamic structural-logical constraints,

IISE Transactions, 2021, vol. 53, n° 1, pp. 21–38.

Institute of Industrial & Systems Engineers, <https://www.iise.org>

**IIE Transactions on Design and Manufacturing Best Paper Award 2008:**

MIP Approach to Balancing Transfer Lines with Blocks of Parallel Operations,

IIE Transactions, 2006, vol. 38, pp. 869–882.

Institute of Industrial & Systems Engineers, <https://www.iise.org>

**BOOKS (AUTHOR)**

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3. **A. Dolgui**, J.-M. Proth. *Systèmes de production modernes*. Tome 2 : Outils et exercices corrigés. Hermès Science, London, 2006, (ISBN: 2-7462-1250-1), 385 pages.

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#### BOOKS (EDITOR)

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7. 10th IFAC Conference on Manufacturing Modelling, Management and Control, MIM 2022, Nantes, France, 22–24 June 2022, *IFACPapersOnline.net*, vol. ??, issue 13, 2022, Elsevier, pp. 1–????, October 2022, Edited by A. Bernard, **A. Dolgui**, H. Haddou-Benderbal, D. Ivanov, D. Lemoine (ISSN 2405-8963)
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9. *Advances in Production Management Systems: Artificial Intelligence for Sustainable and Resilient Production Systems*, IFIP WG 5.7 International Conference, APMS 2021, Nantes, France, September 5–9, 2021, Proceedings, Part II, Edited by **A. Dolgui**, A. Bernard, D. Lemoine, G. von Cieminski, D. Romero, Springer, 2021, 730 pages
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13. *Scheduling in Cloud Manufacturing and Industry 4.0*, Edited by B. Sokolov, D. Ivanov, **A. Dolgui**, International Series in Operations Research & Management Science, vol. 289, Springer, 2020, 273 pages (ISBN 978-3-030-43176-1)
14. 9th IFAC Conference on Manufacturing Modelling, Management and Control, MIM 2019, Berlin, Germany, 28–30 August 2019, *IFACPapersOnline.net*, vol. 52, Issue 13, Elsevier, pp. 1-2838, 2019, Edited by D. Ivanov, **A. Dolgui**, F. Yalaoui, (ISSN 2405-8963)
15. *Handbook of Ripple Effects in the Supply Chain*, Edited by D. Ivanov, **A. Dolgui**, B. Sokolov, International Series in Operations Research & Management Science, vol. 276, Springer, 2019, 365 pages (ISBN 978-3-030-14302-2)
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24. *Supply chain optimisation: product/process design, facilities location and flow control*, Series: Applied Optimization, vol. 94, **A. Dolgui**, J. Soldek, O. Zaikin (Eds.), Springer, 2005, XVI, (Hardcover ISBN: 0-387-23566-3), 289 pages.
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### Invited talks

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#### Plenary speeches

424. **A. Dolgui** Keynote plenary talk on Combinatorial optimization for preliminary design of machiningsystems: advanced methods and applications, IEEE IRASET conference, ENSET Mohammedia, May 2023, Mohammedia, Morocco
425. **A. Dolgui** Keynote plenary talk on Replenishment planning in supply chains under uncertainties of component lead times, Seminar at Hestim, Casablanca, May 2023, Mohammedia, Morocco
426. **A. Dolgui**. LeArning and robuSt deciSlon SupporT systems for agile mANufacTuring environments (ASSISTANT), The 20th IEEE International Conference on Networking, Sensing and Control, IEEE, Oct 2023, Marseille, France
427. **A. Dolgui**. Optimization and AI are key components of the industry of the future, ICSIF 2023 Conference, Rabat, Marocco, October 24, Oct 2023, Rabat, Morocco
428. **A. Dolgui**. AI in Manufacturing: Example of a Large European Project ASSISTANT, International Conference on Science, Engineering Management and Information Technology (SEMIT 2023), September 14, 2023, Sep 2023, Ankara, Turkey
429. **A. Dolgui** Focus on the European project ASSISTANT (Horizon 2020), International Conference AIAMMS 2023, JECRC University, Nov 2023, Jaipur, India
430. **A. Dolgui**, F. Sippl. ASSISTANT – Learning and robust decision support systems for agile manufacturing environments, Here.We.Go - The Future Industry Forum of the French-German Academy of the Industry of the Future, Oct 2023, Munich, Germany
431. **A. Dolgui**. ASSISTANT: LeArning and robuSt deciSlon SupporT systems for agile mANufacTuring environments (H2020), 8th IEEE Symposium on Analytics and Risk (ARTC 2023), Chinese Academy of Sciences, Jul 2023, Pekin, China
432. **A. Dolgui**. An overall presentation of the project ASSISTANT, EFFRA Manufacturing Partenership Day, European Commission, Sep 2023, Bruxelles, Belgium.
433. **A. Dolgui**. Presentation of the International Journal of Production Research, IFIP APMS Production Management Systems for Responsible Manufacturing, Service and Logistics Future, NTNU, Sep 2023, Trondheim, Norway
434. **A. Dolgui**. Panel on industrial application of operations management research, 2023 POMS international conference, Rennes School of Business, Jul 2023, Paris, France
435. **A. Dolgui**. Presentation of the International Journal of Production Research (IJPR), 2023 POMS international conference, Rennes School of Business, Jul 2023, Paris, France
436. **A. Dolgui**. AI based robust decision support systems in manufacturing: The European project ASSISTANT, 2023 EDSI Annual Conference, Decision Science Institute, USA, Jun 2023, Nantes, France
437. **A. Dolgui**. Keynote talk at Webinar in Hong Kong. Presentation of the European project Assistant - The ASSISTANT project: AI for high level decision in manufacturing, Systems Analytics Global Leaders' Seminars - <https://www.saleaders.hku.hk/>, Jan 2022, Hong Kong, China
438. **A. Dolgui** Keynote talk on Replenishment planning in supply chains under uncertainties of component lead times. 5th European IEOM Rome Conference, July 25-28, 2022
439. **A. Dolgui**. Presentation of the International Journal of Production Research: Editor in Chief forum. (Invited plenary talk). *The 9th Triennial IFAC Conference on Manufacturing Modelling, Management and Control (MIM 2019)*, Berlin, Germany, August 28 to 30, 2019.
440. **A. Dolgui**. Combinatorial optimization in the design of manufacturing systems: new problems and real life applications (Invited plenary talk), *The 8<sup>th</sup> International Conference on Industrial Engineering and Systems Management (IESM 2019)*, September 25 – 27, 2019, Donghua University, Shanghai, China.
441. **A. Dolgui**. Optimal replenishment planning in assembly systems under uncertainties of component lead times (Invited plenary talk), *International Conference on Intelligent Transportation and Logistics with Big Data (ICITL 2019)*, 26 - 28 July 2019, Windsor, Canada.
442. **A. Dolgui**. Optimal supply planning in assembly systems under uncertainties of component replenishment lead times. (Invited plenary talk), *14th International Congress of Logistics and SCM Systems (ICLS 2019)*, August 19-22, 2019, Taipei, Taiwan.
443. **A. Dolgui**. Combinatorial design of manufacturing systems: new approaches and real life applications, (Invited plenary talk), *9<sup>th</sup> International conference on Network Analysis, NET'2019*, Higher School of Economics, Moscow, Russia, May 18, 2019.
444. **A. Dolgui**. Combinatorial design of manufacturing systems: new approaches and real life applications, (Invited plenary talk), *XI Summer School of Operational, Data and Decision Making (ORA'2019)*, Higher School of Economics, Nizhny Novgorod, Russia, May 21, 2019.

445. **A. Dolgui.** Replenishment planning in assembly systems under lead time uncertainty, (Invited plenary talk), *XI Summer School of Operational, Data and Decision Making (ORA'2019)*, Higher School of Economics, Nizhny Novgorod, Russia, May 21, 2019.
446. **A. Dolgui.** Invited presentation of International Journal of Production Research. Editor in Chief forum. The 19th Asia Pacific Conference on Industrial Engineering and Management Systems (APIEMS 2018), Hong Kong, 5-8 December 2018, The University of Hong Kong.
447. A. Dolgui. Replenishment planning in supply chains under uncertainties (invited plenary keynote talk), The 48th International Conference on Computers & Industrial Engineering (CIE48), Auckland, New Zealand, 2- 5 December 2018, The University of Auckland.
448. A. Dolgui. Combinatorial design of machining lines: new optimization problems and techniques (invited plenary keynote talk), 14th International Industrial Engineering Conference, February 7-8, 2018, Tehran, University of Teheran, Iran.
449. A. Dolgui. Combinatorial design of paced production lines in machining environment (invited plenary keynote talk), The XIX Congress of the Portuguese Association of Operational Research, 5-8 September 2018, University of Aveiro, Portugal.
450. A. Dolgui. Replenishment planning for assembly to order systems under uncertainty of component lead times (invited plenary keynote talk), 16th Int. Logistics and Supply Chain Congress (LMSCM 2018), 18-20 October, 2018, Pamukkale University, Denizli, Turkey.
451. **A. Dolgui.** Combinatorial techniques to optimally customize machining/assembly lines, *Optimization Problems and Their Applications*, OPTA 2018, 7<sup>th</sup> International Conference, Omsk, Russia, 8-14 July 2018, A. Ereemeev, M. Khachay, Y. Kochetov, P. Pardalos (Eds.), Series: Communications in Computer and Information Science (CCIS), vol. 871, 2018, Springer (Invited plenary talk)
452. O. Ben-Ammar, B. Bettayeb, **A. Dolgui.** Production planning problem with dynamic demand and stochastic lead times. *Proceedings of the 8th International conference "Tanaev's Readings 2018"*, March 27–30, 2018, B.M. Rozin, M.Y. Kovalyov (Eds), National Academy of Sciences, Minsk, Belarus, 2018, pp. 192–196. ISBN 978-985-6744-98-6 (Invited plenary talk)
453. **A. Dolgui.** Combinatorial design of machining lines: new optimization problems and techniques. *Proceedings of the 18th Asia Pacific Industrial Engineering and Management System Conference 2017*, Yogyakarta, 3–6 December 2017, Indonesia, ISBN: 978-602-50913-0-8, (Invited plenary talk)
454. **A. Dolgui.** 55<sup>th</sup> anniversary of Production Research, *24<sup>th</sup> International Conference on Production Research (ICPR 24)*, Poznan, Poland, July 30 – August 3, 2017, Conference Programme, p. 7. (Invited plenary talk)
455. **A. Dolgui.** IJPR (International Journal of Production Research) is celebrating its 55th anniversary, Intrenational Conference on *Industrial Engineering and Systems Management (IESM 2017)*, Saarbrücken, Germany, October 11–13, 2017, <http://www.iesm17.org/special-journal-issues-and-selected-papers/> (Invited plenary talk)
456. **A. Dolgui.** Combinatorial design of machines and machining lines – new application domain for OR, *5<sup>th</sup> International Conference on Operations Research and Enterprise Systems (ICORES'2016)*, Rome, Italy, February 23–25, 2016, Final Program and Book of Abstracts, p. 41. (Invited plenary talk).
457. **A. Dolgui.** Line design and balancing problems in machining environment, *Workshop "ALBP 60 years later: State-of-the-art and Future developments roadmap"*, Toulouse, France, November 5<sup>th</sup>–6<sup>th</sup>, 2015, Book of Abstracts, p. 9. (Invited plenary talk).
458. **A. Dolgui.** Inventory control and risk management in supply chains under lead time uncertainties, *2015 IEEE Symposium on Analytics and Risk in Complex Management Systems (ISARCRM 2015)*, Beijing, University of Chinese Academy of Sciences, August 14–15, 2015 (Invited plenary talk)
459. **A. Dolgui.** Editorial Policy of the International Journal of Production Research. *IIE International Conference on Engineering Systems and Networks: The way ahead for industrial engineering and operations management (ICIEOM-CIO –IIE 2015)*, Universidade de Aveiro, Portugal, July 6th · 8th, 2015 (Invited plenary talk)
460. **A. Dolgui.** Combinatorial design of production lines. *Shaastrarth 2015: International Conference on Adavced Research Applications in Engineering and Technology*, June 29-30, 2015, Rungta College of Engineering & Technology, Bhilai, India, pp. 3–15. (Invited plenary talk).
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462. **A. Dolgui.** An example of university-industry based R&D for machining industry in France. *The 34th Conference for Operations Research and Industrial Engineering (YAEM 2014)*, June 25 - 27, 2014, Görükle Campus of Uludag University, Bursa, Turkey. (Invited plenary talk).
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465. **A. Dolgui.** Optimization techniques for MRP parametrization under lead time uncertainties, *The First International Conference on Reasoning and Optimization in Information Systems (ROIS'2013)*, September 6-7, 2013, Hammam- Sousse, Tunisia (*Invited plenary talk*).
466. **A. Dolgui.** Utilisation des modèles stochastiques et des techniques d'optimisation combinatoire pour le paramétrage de MRP (Manufacturing Resource Planning). *Colloque sur l'Optimisation et les Systèmes d'Information (COSI'2013)*, 9-11 juin 2013, Alger, Algérie (*Invited plenary talk*).
467. **A. Dolgui, J.-M. Proth.** Assembly Line Balancing: Conventional Methods and Extensions. *Proceedings of the IFAC Conference on Manufacturing Modelling, Management and Control (MIM'2013)*, St Petersburg, Russia, June 19-21, 2013, N. Bakhtadze, K. Chernyshov, A. Dolgui, V. Lototsky (Eds.), Elsevier Science, 2013, IFAC-PapersOnline.net (ISSN 1474-6670), pp. 43-48. (*Invited plenary talk*).
468. **A. Dolgui.** Optimization in Design of Automated Machining Systems. *The 9<sup>th</sup> International Conference on Informatics in Control, Automation and Robotics (ICINCO'2012)*, Rome, Italy, July 28-31, 2012. (*Invited plenary talk*).
469. **A. Dolgui.** Decision-aid support in design of machining systems. *The International Conference on Industrial Engineering & Manufacturing (ICIEM'2012)*, Batna, Algeria, May 6-7, 2012, 2 pages. (*Invited plenary talk*).
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#### Keynote speeches for invited sessions

473. O. Hazir, X. Delorme, **A. Dolgui.** A Survey on Cost and Profit Oriented Assembly Line Balancing, *Proceedings of the 19th IFAC World Congress*, Cape Town, E. Boj, and X. Xia (Eds.), South Africa. August 24-29, 2014, pp. 6159 – 6167. (*Keynote talk in an invited session*).
474. L. Monostori, P. Valckenaers, **A. Dolgui**, H. Panetto, M. Brdys, B.C. Csáji. Cooperative Control in Production and Logistics, *Proceedings of the 19th IFAC World Congress*, Cape Town, E. Boj, and X. Xia (Eds.), South Africa. August 24-29, 2014, pp. 4247 – 4265. (*Keynote milenstone talk*).
475. O. Battaïa, X. Delorme, A. Dolgui, F. Grimaud. Integrated Decision Making in Flow Line Balancing, *Invited keynote paper for a special session*, *Proceedings of the IFAC Conference on Manufacturing Modelling, Management and Control (MIM'2013)*, St Petersburg, Russia, June 19-21, 2013, N. Bakhtadze, K. Chernyshov, A. Dolgui, V. Lototsky (Eds.), Elsevier Science, 2013, IFAC-PapersOnline.net (ISSN 1474-6670), pp. 831-838.
476. O. Ben Ammar, **A. Dolgui**, F. Hnaïen, A.-M. Ould Louly. Supply planning and inventory control under lead time uncertainty: A review, *Invited keynote paper for a special session*, *Proceedings of the IFAC Conference on Manufacturing Modelling, Management and Control (MIM'2013)*, St Petersburg, Russia, June 19-21, 2013, N. Bakhtadze, K. Chernyshov, A. Dolgui, V. Lototsky (Eds.), Elsevier Science, 2013, IFAC-PapersOnline.net (ISSN 1474-6670), pp. 359-370.
477. **A. Dolgui**, J.M. Proth, Radio Frequency IDentification (RFID) in Supply Chain: Technology, Applications and Concerns, *Invited keynote paper for a special Track*, *Proceedings of the 14th IFAC Symposium on Information Control Problems in Manufacturing (INCOM'12)*, Bucharest, Romania, May 23-25, 2012, T. Borangiu, I. Dumitrache, A. Dolgui, F. Filip (Eds.), Elsevier Science, 2012, IFAC-PapersOnline.net (ISSN 1474-6670), pp. 49-56.
478. D. Ivanov, **A. Dolgui**, B. Sokolov. On Applicability of Optimal Control Theory to Adaptive Supply Chain Planning and Scheduling, *Invited keynote paper for a special session*, *Proceedings of the 18<sup>th</sup> IFAC World Congress*, Milano, (Italy), S. Bittanti, A. Cenedese, S. Zampieri (Eds.), August 28 - September 2, 2011, IFAC-PapersOnline.net (ISSN 1474-6670), pp. 423-434.
479. **A. Dolgui**, J.-M. Proth. RFID Technology in Supply Chain Management: State of the Art and Perspectives. *Proceedings of the 17th IFAC World Congress*, Seoul, Korea, July 6-11, M.J. Chung, P. Misra and H. Shim (Ed.), 2008, Elsevier Science, IFAC-PapersOnline.net (ISSN 1474-6670), *invited keynote paper for a special session*, pp. 4464- 4475.

480. M. Sarkar, B. Sarkar, **A. Dolgui** (2022). An Automated Smart Production with System Reliability under a Leader-Follower Strategy of Supply Chain Management. In: Kim, D.Y., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Smart Manufacturing and Logistics Systems: Turning Ideas into Action. APMS 2022. IFIP Advances in Information and Communication Technology*, vol 663. Springer, Cham. [https://doi.org/10.1007/978-3-031-16407-1\\_54](https://doi.org/10.1007/978-3-031-16407-1_54)
481. I. Slama, O. Ben-Ammar, **A. Dolgui** (2021). A Model for a Multi-level Disassembly System Under Random Disassembly Lead Times. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 630. Springer, Cham. [https://doi.org/10.1007/978-3-030-85874-2\\_5](https://doi.org/10.1007/978-3-030-85874-2_5)
482. B. Bettayeb, O. Ben-Ammar, **A. Dolgui** (2021). Multi-period Multi-sourcing Supply Planning with Stochastic Lead-Times, Quantity-Dependent Pricing, and Delivery Flexibility Costs. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 630. Springer, Cham. [https://doi.org/10.1007/978-3-030-85874-2\\_54](https://doi.org/10.1007/978-3-030-85874-2_54)
483. S. Razm, N. Brahimi, **A. Dolgui**, R. Hammami (2021). Designing Bioenergy Supply Chains Under Social Constraints. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 630. Springer, Cham. [https://doi.org/10.1007/978-3-030-85874-2\\_41](https://doi.org/10.1007/978-3-030-85874-2_41)
484. D. Luo, S. Thevenin, **A. Dolgui** (2021). A Digital Twin-Driven Methodology for Material Resource Planning Under Uncertainties. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 630. Springer, Cham. [https://doi.org/10.1007/978-3-030-85874-2\\_34](https://doi.org/10.1007/978-3-030-85874-2_34)
485. E. Hajjem, H.H. Benderbal, N. Hamani, **A. Dolgui** (2021). Digital Twin Framework for Reconfigurable Manufacturing Systems: Challenges and Requirements. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 631. Springer, Cham. [https://doi.org/10.1007/978-3-030-85902-2\\_59](https://doi.org/10.1007/978-3-030-85902-2_59)
486. P. Metzker, S. Thevenin, Y. Adulyasak, **A. Dolgui** (2021). Optimization for Lot-Sizing Problems Under Uncertainty: A Data-Driven Perspective. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 631. Springer, Cham. [https://doi.org/10.1007/978-3-030-85902-2\\_75](https://doi.org/10.1007/978-3-030-85902-2_75)
487. B. Vahedi-Nouri, R. Tavakkoli-Moghaddam, Z. Hanzalek, **A. Dolgui** (2021). Integrated Workforce Allocation and Scheduling in a Reconfigurable Manufacturing System Considering Cloud Manufacturing. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 631. Springer, Cham. [https://doi.org/10.1007/978-3-030-85902-2\\_57](https://doi.org/10.1007/978-3-030-85902-2_57)
488. O. Battaïa, **A. Dolgui**, N. Guschinsky, F. Makssoud (2021). Mathematical Model for Processing Multiple Parts on Multi-positional Reconfigurable Machines with Turrets. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 631. Springer, Cham. [https://doi.org/10.1007/978-3-030-85902-2\\_60](https://doi.org/10.1007/978-3-030-85902-2_60)
489. B. Loger, **A. Dolgui**, F. Lehuédé, G. Massonnet (2021). A Robust Data Driven Approach to Supply Planning. In: Dolgui, A., Bernard, A., Lemoine, D., von Cieminski, G., Romero, D. (eds) *Advances in Production Management Systems. Artificial Intelligence for Sustainable and Resilient Production Systems. APMS 2021. IFIP Advances in Information and Communication Technology*, vol 633. Springer, Cham. [https://doi.org/10.1007/978-3-030-85910-7\\_18](https://doi.org/10.1007/978-3-030-85910-7_18)
490. A.R. Yelles-Chaouche, E. Gurevsky, N. Brahimi, **A. Dolgui**. Minimizing task reassignments in the design of reconfigurable manufacturing lines with space restrictions, 21th IFAC World Congress, Edited by R. Findeisen, S. Hirche, K. Janschek, M. Mönnigmann, *IFAC PapersOnLine*, vol. 53, n°2, 2020, pp. 10437–10442. Doi: 10.1016/j.ifacol.2020.12.2785
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#### INVITED SEMINARS AND COMMUNICATIONS

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1073. D. Ivanov, **A. Dolgui**. Supply Chain Viability, Intertwined Supply Networks, and Digital Supply Chain, INFORMS Webinar, May 4, 2023
1074. **A. Dolgui**. The history, current state and policy of the International Journal of Production Research. Seminar, School of Economics and Management, Fuzhou University, China. September 30, 2019
1075. X. Delorme, **A. Dolgui**. Conception de systèmes de production reconfigurables/flexibles, Colloque Systèmes de Production du Futur, Institut Mines Télécom (IMT), 9 octobre 2018, Paris
1076. **A. Dolgui**. Gestion des réapprovisionnements en composants pour les systèmes d'assemblage sous incertitudes des délais de livraison, séminaire invité FORAC et CIRRELT, Université Laval, 12 octobre 2018, Québec
1077. **A. Dolgui**. Replenishment planning for assembly to order systems under uncertainty of component lead times, Invited Seminar, Bandung Institute of Technology, Indonesia
1078. **A. Dolgui**. Industrie 4.0, presentation au séminaire « Usine du futur » à l'Université de technologie de Troyes, Mai, 2017.
1079. **A. Dolgui**. Panel Session "How can enterprise modelling and simulation methods help in implementing and managing the support and service processes required for the new paradigm of Digital Manufacturing" at 8<sup>th</sup> IFAC conference on Manufacturing Modelling for Management and Control (MIM'2016), June 27-30, 2016, Troyes, France, Animation: Prof. Dr. Xavier Boucher, Ecole des Mines de Saint Etienne, France
1080. **A. Dolgui**. Panel Session at 7th International Conference on Operations Research and Enterprise Systems (ICORES 2016) in Rome, Italy, February 23 – 25, 2016, Animation: Prof. Dominique de Werra, Ecole Polytechnique Fédérale de Lausanne, Switzerland
1081. **A. Dolgui**. Industrie 4.0 – concepts, état de notre recherche et perspectives, Colloque IMT « *Usine du Future* », 26 novembre 2015, Paris, Institut Mines-Télécom (*présentation des résultats du groupe de travail GT3 miroir Automatique, Transitiue, Robotique*)
1082. **A. Dolgui**. Optimization techniques for MRP parametrization under lead time uncertainties, School of Management and Economics, Beijing Institute of Technology, September 9, 2015 (*Invited talk*)
1083. **A. Dolgui**. Optimisation en conception des lignes d'usage, Lab. CIRRELT, Québec, Université Laval, ville de Québec, Canada, 18 juin 2014. (*Séminaire invité*).
1084. **A. Dolgui**. The International Journal of Production Research: current policy and perspectives, China, Hefei University of Technology, July 3, 2014. (*Invited talk*).

1085. **A. Dolgui**. Modélisation et optimisation des systèmes industriels, Colloque IMT « *Grande échelle et complexité* », 26 et 27 mars 2014, Paris, Institut Mines-Télécom. (Conférence invitée).
1086. **A. Dolgui**. Assembly Line Balancing: Applications in Machining Environments, *University of Sciences and Technologies of Chine*, Hefei, China, 21 November 2013. (Invited talk).
1087. **A. Dolgui**. The International Journal of Production Research, *22nd International Conference on Production Research (ICPR-22)*, July 28 - August 3, Brazil, 2013. (Invited talk).
1088. **A. Dolgui**. Speech when Appointed as a Fellow of the European Academy for Industrial Management, *Advances in Sustainable Production Conference (AIM 2013)*, 19-22 September 2013, Split, Croatia.
1089. **A. Dolgui** Panel Session at 9th International Conference on Informatics in Control, Automation and Robotics (ICINCO 2012) in Rome, Italy, July 28 – 31, 2012, Animation: Prof. Kurosh Madani, University of Paris-EST Créteil (UPEC), France
1090. **A. Dolgui**, M. Barth. Présentation du groupe de travail « Conception des systèmes de production ». 3èmes Journées Nationales MACS, JN-MACS-2009 du CNRS, 16-18 mars 2009, Angers, J. Zaytoon, P. Ladet (Eds.), p. 45-48. (in French)
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1092. **A. Dolgui**. Conception et planification des lignes d'assemblage, EPFL, Lausanne, Suisse, 2003. (Séminaire invité).

#### TALKS IN WORKING GROUPS

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1093. **A. Dolgui**. Optimisation de flux et planification des chaînes de production, *Pôle de compétitivité PASCA et EMC2*, le 3 mars 2016, Saint-Nazaire
1094. **A. Dolgui**. Configuration et reconfiguration des lignes d'usinage pour l'industrie automobile, *Pôle de compétitivité EMC2 et ID4car, journée « Quel futur pour le manufacturing automobile ? »*, Nantes, Ecole des Mines, le 13 janvier 2016
1095. M.K.K. Habibi, O. Battaïa, V.-D. Cung, **A. Dolgui**, La coordination de la collecte des produits en fin de vie et de leurs désassemblages dans les chaînes logistiques inversées. *La 20ème journée du pôle STP (Sciences et Techniques de la Production) du GdR MaCS (Groupe de Recherche du CNRS en Modélisation, Analyse et Conduite des Systèmes dynamiques)*, 5 février 2015, Troyes, France
1096. **A. Dolgui**. Affectation optimale des opérateurs aux postes de travail dans une ligne de montage dans l'industrie automobile, *19èmes journées STP du GdR MACS*, Arts et Métiers ParisTech, 3 et 4 avril 2014.
1097. **A. Dolgui**, M. C. Portmann, J. M. Proth. Plannification des systèmes d'assemblage multi-produits avec approvisionnement aléatoire, *groupe GOTHa (ordonancement théorique et appliqué)*, Univ. Paris 6, 1995.
1098. GDR MACS (2003 – 2013), one or two presentations a year.
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