10th IFAC CONFERENCE ON MANUFACTURING MODELLING, MANAGEMENT AND CONTROL
New challenges for management and control in the Industry 4.0 era
Hybrid conference – June 22-24, 2022, Nantes, France

Closing Ceremony
CLOSING CEREMONY
June 24th, 2022

Pr. Dmitry Ivanov, IPC Chair
Belin School of Management and Low, Germany

Pr. Alexandre Dolgui, General chair
IMT Atlantique, France

Pr. Alain Bernard, Vice-general chair
Centrale Nantes, France

Pr. David Lemoine, NOC chair
IMT Atlantique, France
Chair IFAC Technical Committee (TC) 5.2
Management and Control in Manufacturing and Logistics

IPC Chair IFAC MIM 2022

Prof. Dr. Dmitry Ivanov
(Berlin School of Economics and Law)
General Conference Chair

Professor
Alexandre Dolgui
(France)

Chair International Program Committee

Professor Dr.
Ivanov
(Germany)

113 members from 28 countries
MIM 2022 Scientific Program

Number of submissions  806 from more than 70 countries
including Track and Session Proposals  78

Accepted papers  544
Acceptance rate  75%

Number of sessions  125

Number of authors in program  1908 from 68 countries

Number of reviewers  837 reviewers

Number of registered participants  767
Corresponding authors of the papers in the program are from 68 countries.

<table>
<thead>
<tr>
<th>Country</th>
<th>Papers</th>
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<tbody>
<tr>
<td>France</td>
<td>380</td>
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<tr>
<td>Italy</td>
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<tr>
<td>China</td>
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<td>Germany</td>
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<td>Brazil</td>
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<td>India</td>
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<td>United Kingdom</td>
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<td>Spain</td>
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Papers in program

- France
- Italy
- China
- Germany
- Brazil
- Russia
- Canada
- India
- United Kingdom
- Spain
- Morocco
- Portugal
- Tunisia
- United States of America
- Greece
Six outstanding keynote presentations

- Prof. David Simchi-Levi (MIT, USA): **From Data to Science and Back**
- Prof. Mike Pinedo (NY Univ, USA): **Scheduling Applications in Industry – Steelmaking and Micro-electronics**
- Prof. Dimitris Mourtzis (U. Patras, Greece): **Artificial Intelligence for Production Management and Control towards Mass Personalization in Industry 4.0**
- Prof. Volodymyr Babich (Georgetown U., USA): **Playing with DISASTER: a Behavioral Simulation Platform of Supply Shortages, Competition for Supplier Capacity, Blockchain-enabled Strategic Information Sharing, and Markets for Capacity-Token Trading**
- Prof. Gisela Lanza (KIT, Germany): **Enabling changeable production by utilizing digital twins**
- Prof. Alain Bensoussan (Hong Kong): **Major challenges of Risk Management in Industry**
General chair of conference

Prof. Dr. Alexandre Dolgui
(IMT Atlantique, France)
The Department Automation, Production and Computer Sciences (DAPI) of IMT Atlantique, campus in Nantes, France

DAPI is composed of 3 groups (44 Faculty members):

- Software Engineering and Distribution
- Optimization and Decision Aid
- Robotics, Control and Interactions
The Program is still available on:
https://ifac.papercept.net/conferences/conferences/MIM22/program/MIM22_ProgramAtAGlanceWeb.html

The Proceedings were published by Elsevier in IFAC-PapersOnline
https://www.sciencedirect.com/journal/ifac-papersonline/vol/55/issue/10

The articles are in open access and with DOI
Post-conference publications in journals (special issues were announced, the submissions of selected articles are in progress)
Vice-general chair

Prof. Dr. Alain Bernard
(Centrale Nantes, France)
President of National Organizing Committee (NOC)

Prof. Dr. David Lemoine
(IMT Atlantique, France)
Organizing Committee

Rosa Abbou
Hichem haddou benderbal
Lyes benyoucef
Félicien Barhebwa-meshamuka
Odile Bellenguez
Nadjib Brahimi
Olivier Cardin
Catherine Da Cunha
Alban Derrien
Audrey Derrien
Oussama Djedidi
Alexandre Dolgui
Seyyed-Ehsan.Hashemi-petroodi
Mihalis Giannakis
Evgeny Gurevsky
Ramzi Hammami
Seyyed Ehsan Hashemi Petroodi
Maryam Karimi Mamaghan

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Rennes School of Business
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IMT Atlantique
IMT Atlantique
Audencia
Université de Nantes
Rennes School of Business
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IMT Atlantique
<table>
<thead>
<tr>
<th>Name</th>
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<tr>
<td>Arnaud Laurent</td>
<td>IMT Atlantique</td>
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<td>David Lemoine</td>
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<td>Dan Luo</td>
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<td>Guillaume Massonnet</td>
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<td>Nasser Mebarki</td>
<td>Université de Nantes</td>
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<td>Dan Mahoro</td>
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<td>Mehrdad Mohammadi</td>
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<td>Dominique Morel</td>
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<td>Mathieu Porez</td>
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<td>Naly Rakoto</td>
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<td>Maria-Isabel Restrepo-Ruiz</td>
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<td>Rui Sa Shibasaki</td>
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<td>Haed Tavakkoli-Moghaddam</td>
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<td>Simon Thevenin</td>
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<td>Joy Vavasseur</td>
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<td>Karim Yelles-Chaouche</td>
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Secretaries (assistants)

Mrs Barbara RIERE
Mrs Aurore GUILLON
Mrs Catherine FOURNY
Mrs Joy VAVASSEUR

Thank you very much!
Conference Awards:

Commended Paper Award
Young Author Award
Best Application Paper
Best Paper

Award Committee:
Commended Paper Award
Commended Paper Award

Schamp Matthias, Demasure Thibaut, Huysentruyt Stijn, Lamote Jan, Aghezzaf El-Houssaine & Cottyn Johannes

For the paper titled

Multi-level Approach to Virtual Commissioning: A Reconfigurable Assembly System Case

Presented at the IFAC MIMS2022 Conference
June 22 – 24, 2022, Nantes, France
Commended Paper Award

Mourtzis Dimitris, Angelopoulos John & Panopoulos Nikos

For the paper titled

Unmanned Aerial Vehicle (UAV) Manipulation Assisted by Augmented Reality (AR): The case of a drone

Presented at the IFAC MIMS2022 Conference
June 22 – 24, 2022, Nantes, France

Alexandre Dolgui
Conference Chair

Dmitry Ivanov
Program Chair

David Lemoine
NOC Chair
Commended Paper Award

Liu Ming, Tang Hao, Chu Feng, Zheng Feifeng & Chu Chengbin

For the paper titled

A Reinforcement Learning Variable Neighborhood Search for the Robust Dynamic Bayesian Network Optimization Problem Under the Supply Chain Ripple Effect

Presented at the IFAC MIMS2022 Conference
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Dmitry Ivanov
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Commended Paper Award

Kosasih Edward & Brintrup Alexandra

For the paper titled

Reinforcement Learning Provides a Flexible Approach for Realistic Supply Chain Safety Stock Optimisation

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NOC Chair
Commended Paper Award

Grassi Andrea, Guizzi Guido, Santillo Liberatina Carmela, Vespoli Silvestro & Arlinghaus Julia

For the paper titled

On the Development of A Blockchain-implementable Intermediation Model for Digital Supply Chains

Presented at the IFAC MIMS2022 Conference
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Dmitry Ivanov
Program Chair

David Lemoine
NOC Chair
Commended Paper Award

Alvim Silvio Luiz, Viel De Farias Ingra, Frazzon Enzo Morosini & De Simas Davi

For the paper titled

Supply Chain Resilience in Turbulent Times: Conceptual Model and Real-world Use Case

Presented at the IFAC MIMS2022 Conference
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Dmitry Ivanov
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NOC Chair
Commended Paper Award

Zhang Minqi, Grosse Eric & Glock Christoph

For the paper titled

Potential of Mobile Applications in Human-centric Production and Logistics Management

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Dmitry Ivanov
Program Chair

David Lemoine
NOC Chair
Commended Paper Award

Badulescu Yvonne, Tiwari Manoj K & Cheikhrouhou Naoufel

For the paper titled

MCDM Approach To Select Iot Devices for The Reverse Logistics Process in The Clinical Trials Supply Chain

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Dmitry Ivanov
Program Chair

David Lemoine
NOC Chair
Commended Paper Award

Nouinou Hajar, ARBAOUI TAHA & Yalaoui Alice

For the paper titled

Minimizing The Total Weighted Completion Times for Semi-online Single Machine Scheduling

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Dmitry Ivanov
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David Lemoine
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Commended Paper Award

Arias Marco, Sanchis Raquel & Poler Raul

For the paper titled

Impact of Predicting Disruptive Events in Supply Planning for Enterprise Resilience

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Dmitry Ivanov
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Commended Paper Award

Badakhshan Ehsan, Ball Peter & Badakhshan Ali

For the paper titled

Using Digital Twins for Inventory and Cash Management in Supply Chains

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Dmitry Ivanov
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Commended Paper Award

Rahman Towfique, Paul Sanjoy Kumar, Shukla Nagesh, Agarwal Renu & Taghikhah Firouzeh

For the paper titled

Managing Panic-buying Related Instabilities in Supply Chains: A COVID-19 Pandemic Perspective

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Commended Paper Award

Ebrahimi Bajgani Sahar & Saberi Sara

For the paper titled

Reverse Supply Chain Network With Return Products Quality Consideration

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Commended Paper Award

Schmid Nico André, Montreuil Benoit & Limère Veronique

For the paper titled

A Case Study on the Integration of Assembly Line Balancing and Feeding Decisions

Presented at the IFAC MIMS2022 Conference
June 22 – 24, 2022, Nantes, France

Alexandre Dolgui
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Program Chair

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Commended Paper Award

Sprodowski Tobias, Hoff-Hoffmeyer-Zlotnik Marit & Freitag Michael

For the paper titled

Balance Efficient Shuttle Routing and Fast Order Execution on A Vehicle Compound

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Dmitry Ivanov
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David Lemoine
NOC Chair
Commended Paper Award

Calzavara Martina, Faccio Maurizio, FINCO SERENA & Zennaro Ilenia

For the paper titled

Influence of Task Time Variation in Adopting Walking Worker Assembly Systems: an Innovative Design Approach

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Program Chair

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Commended Paper Award

Lolli Francesco, Coruzzolo Antonio, Peron Mirco & Sgarbossa Fabio

For the paper titled

On the Suitability of Insourced Additive Manufacturing for Spare Parts Management

Presented at the IFAC MIMS2022 Conference
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David Lemoine
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Commended Paper Award

Lazarev Alexander, Lemtyuzhnikova Darya, Tyunyatkin Andrey & Battaïa Olga

For the paper titled


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Program Chair

David Lemoine
NOC Chair
Young Author Award Finalist
Young Author Award Finalist

Terzi Mourad, Ouazene Yassine, Yalaoui Alice & Yalaoui Farouk

For the paper titled

Integrated Lot Sizing and Pricing Problem Under Cross-price Demand Model

Presented at the IFAC MIMS2022 Conference
June 22 – 24, 2022, Nantes, France

Alexandre Dolgui
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Dmitry Ivanov
Program Chair

David Lemoine
NOC Chair
Young Author Award Finalist

Keshvarparast Ali, Battaïa Olga, Pirayesh Amir & Battini, Daria

For the paper titled

Considering Physical Workload and Workforce Diversity in a Collaborative Assembly Line Balancing (C-ALB) Optimization Model

Presented at the IFAC MIMS2022 Conference
June 22 – 24, 2022, Nantes, France

Alexandre Dolgui
Conference Chair

Dmitry Ivanov
Program Chair

David Lemoine
NOC Chair
Young Author Award
Young Author Award

Berti Nicola, Finco Serena, Guidolin Mattia, Reggiani Monica & Battini Daria

For the paper titled

Multi-person Postural Assessment and Training in Real-time

Presented at the IFAC MIMS2022 Conference
June 22 – 24, 2022, Nantes, France
Best Application Paper
Best Application Paper

Shahnejat-Bushehri Sina, Kermani Ali, Arslan Okan, Cordeau Jean-François & Jans Raf

For the paper titled

A Vehicle Routing Problem with Time Windows and Workload Balancing for COVID-19 Testers: A Case Study

Presented at the IFAC MIMS2022 Conference
June 22 – 24, 2022, Nantes, France

Alexandre Dolgui
Conference Chair

Dmitry Ivanov
Program Chair

David Lemoine
NOC Chair
Best Paper Award

Peron Mirco, Basten Rob, Knofius Nils, Lolli Francesco & Sgarbossa Fabio

For the paper titled

Additive or Conventional Manufacturing for Spare Parts: Effect of Failure Rate Uncertainty on the Sourcing Option Decision

Presented at the IFAC MIMS2022 Conference
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Alexandre Dolgui
Conference Chair

Dmitry Ivanov
Program Chair

David Lemoine
NOC Chair
We hope you enjoyed MIM 2022
See you at the next MIM in Norway, **NTNU**, Trondheim

The 11th IFAC triennial conference
**MIM 2025**