

IFAC Technical Committee (TC) 5.2

Management and Control in Manufacturing and Logistics

Meeting, July 15, 2020

Meeting of IFAC TC 5.2

Agenda

- New name
- Information on Working groups
- 21th IFAC World Congress in Berlin, July 12-17, 2020
- MIM 2019 publications
- INCOM 2021
- Next 10th MIM conference (MIM 2022) and MIM 2025
- Other business

TC 5.2 new name

Management and Control in Manufacturing and Logistics

(approved by IFAC Technical Board on July 6, 2020)

Roster 2020-2023

Chair:

Prof. Dmitry Ivanov (Germany)

Vice-Chairs:

Prof. Alexandre Dolgui (France)

Prof. Natalia Bakhtadze (Russia)

Prof. Farouk Yalaoui (France)

VC for Education: Prof. Daria Battini (Italy)

VC for Publication Prof. Enzo Morosini Frazzon (Brazil),

VC for Industry Dr. Oleg Gusikhin (Ford, USA)

VC for Social Media Dr. Eric Grosse (Germany)

Members:

90 members from 24 countries

Working groups

WG 1 'Digital Supply Network Engineering and Management',

chairs: Prof. Alexandre Dolgui (France) and Prof. Dmitry Ivanov (Germany)

WG 2 'Advanced multi-criteria applications in manufacturing and logistics',

chairs: Prof. Lyes Benyoucef (France), Dr. Aguirre Hernan (Japan) and Prof. Farouk Yalaoui (France)

WG 3 'Design and Control of Reconfigurable Manufacturing Systems',

chairs: Prof. Olga Battaïa, Dr. Xavier Delorme (France), Dr. Rita Gamberini (Italy) and Prof. Manoj Kumar Tiwari (India)

WG 4 'Advances in Integrated Maintenance Management',

chairs: Prof. Anis Chelbi (Tunisia), Prof. Ali Gharbi (Canada) and Prof. Nidhal Rezg (France)

WG 5 'Risk, analytics and operations',

chairs: Prof. Desheng Dash Wu (Sweden) and Prof. Charles S. Tapiero (USA)

WG 6 'Intelligent methods and systems supporting supply chain decision making',

chairs: Prof. Michael Freitag (Germany) and Prof. Enzo Morosini Frazzon (Brazil)

WG 7 'Human factors and ergonomics in industrial and logistic system design and management',

chairs: Prof. Daria Battini (Italy), Prof. Fabio Sgarbossa (Italy), Prof. Christoph Glock (Germany), Dr. Eric Grosse (Germany)

Working groups

Working groups 4 and 5 were not visible at MIM 2019; neither at INCOM 2018, IFAC WC 2017 and IFAC 2020

New Working Groups?

Potential topics: Sustainability, Digital twins, Blockchain, Industry 4.0, Cloud manufacturing, Humanitarian logistics, Artificial intelligence & Data analytics applications to Manufacturing and Logistics,...

Chairs??:

- regularly organize Invited sessions and tracks at IFAC events

IFAC 2020 Deliverables

8 Technical Associate Editors (TAE) for IFAC Congress 2020

WG1: Open Invited Track “Supply Network Engineering, Dynamics, and Control”

WG2: Invited Session “Operations research techniques for complex systems scheduling”

WG6: Invited Session “Intelligent Methods and Tools supporting Decision Making in Manufacturing Systems and Supply Chains”

WG7: Invited Session “Human factors in production and logistics systems of the future”

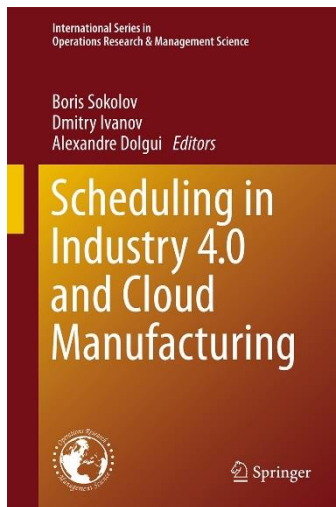
Publications



New Special Section MIM 2019 from TC 5.2 is published in Annual Reviews in Control in Volume 49

Editorial:

Dolgui, A., Ivanov D. (2020) Manufacturing Modelling, Management and Control: IFAC TC 5.2 past, present and future. ***Annual Reviews in Control***, 49, 258-263.



Sokolov B., Ivanov, D., Dolgui A. (Eds) (2020). Scheduling in Industry 4.0 and Cloud Manufacturing. Springer, New York, ISBN 978-3-030-43176-1

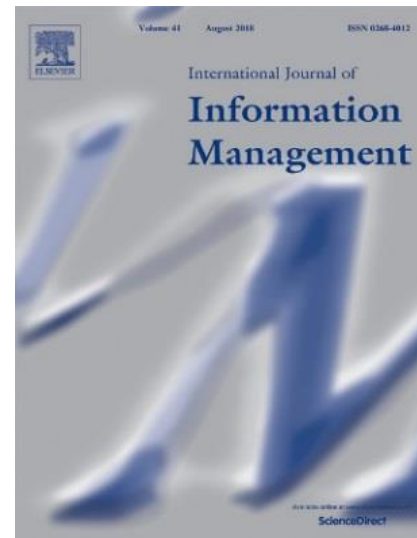
Organised by TC 5.2

MIM2019 Post-Conference Publications

IFAC Proceedings:

Ivanov D., Dolgui A., Yalaoui F. (Eds.) (2019). Proceedings of the 9th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2019, Berlin, Germany, August 28-30, 2019. IFAC PapersOnLine, 52(13), 1-2838.

Special Issues in Journals:



17st IFAC INCOM 2021, Budapest, Hungary; June 7-9, 2021

Objectives:

- Each TC organizes 1 Track
- Each WG - at least one session
- Deadlines for Track / Session Proposals and Papers:

01 August 2020

Open invited track and session proposal submission

30 September 2020

Draft manuscript submission

Next meetings

The rule: One meeting an year

Next TC 5.2 meetings:

- At IFAC INCOM 2021 in Budapest, Hungary, June 7-9, 2021
- At IFAC MIM 2022 in Nantes, France, June 22-24, 2022
- At IFAC WC 2023 in Yokohama, Japan

MIM 2022

Nantes, France, June 22-24 (tentative dates)

Organized by Prof. Alexandre Dolgui / IMT Atlantique



Discussion

- INCOM 2021 web site is ready; deadline extensions for submissions to INCOM are possible; need to clearly identify the format (on-site/virtual/mixed) well in advance; suggestion to use Zoom (IFAC has a license)
- Application for MIM 2022 will be done soon; suggestion to consider a virtual component in advance as a supplement to the major on-site event, e.g., some satellite events / virtual sessions as a part of MIM 2022 program. In case if an on-site organization will be impossible, this virtual component could help easily to transform the program to an online one.
- New working groups and active members are welcome; we should organize special issues in IFAC/IEEE journals; new active industrial members are welcome.