



**IMT Atlantique**

Bretagne-Pays de la Loire  
École Mines-Télécom



# INFORMATION CONTROL PROBLEMS IN MANUFACTURING: HISTORY OF IFAC INCOM SYMPOSIUM



**Prof. Dr. Alexandre Dolgui**  
IMT Atlantique, France

**Editor in Chief of the International Journal of  
Production Research**

18th IFAC Symposium on Information Control Problems in Manufacturing (INCOM 2024),  
28-30 August 2024, Vienna, Austria

# OUTLINE

- **MY AFFILIATION AND DEPARTMENT**
- **THE INTERNATIONAL JOURNAL OF PRODUCTION RESEARCH**
- **INFORMATION CONTROL PROBLEMS IN MANUFACTURING: HISTORY OF INCOM SYMPOSIUM**
  - **Creation and first period of INCOM**
  - **Growth of INCOM from 2004 to 2015**
  - **Maturity of INCOM after 2015**
  - **Next INCOM in 2027**



# Institute Mines Telecom (IMT) and IMT Atlantique as a part

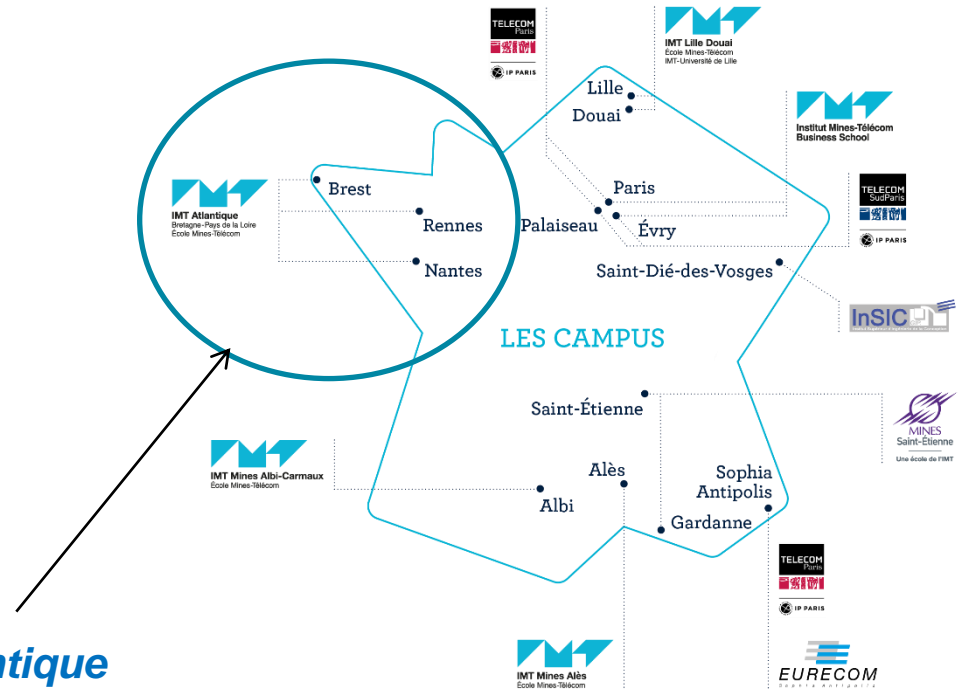


**IMT Atlantique**  
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École Mines-Télécom

# INSTITUTE MINES TELECOM (IMT) and IMT Atlantique

**IMT** is composed of:

- **12** schools of engineering (Techn. Univ.)
- **1** business and economics school
- **1,450** faculty members
- **13,000** students
- **4,300** graduates per year
- **60,000** alumni
- **34%** foreign students
- **60** nationalities
- **Largest enterprise incubator in France**



**IMT Atlantique**  
**- a Technological University**

Department

Automation, Production and  
Computer Sciences (DAPI)

campus in Nantes



**IMT Atlantique**  
Bretagne-Pays de la Loire  
École Mines-Télécom

Automation, Production and Computer Sciences  
(116 persons including 42 Faculty Members):

**Robotics and automatic control**

**Human factors engineering**

*Logistics and production systems*

*Constraint programming and decision making*

**Software engineering**

**Digital infrastructures management**

*Annual amount of contracts: 3 M Euros*

6 European Projects H2020

1 ERC Project

## Staff

116 persons:

**42 Professors (10 Full Professors, 32 Asst Prof)**

19 Post-docs

33 PhD candidates

20 Engineers

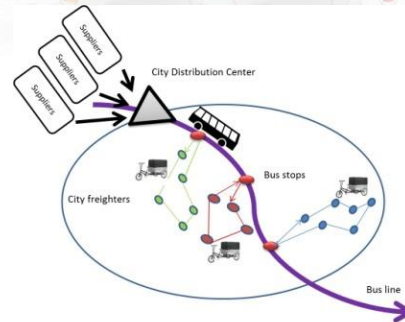
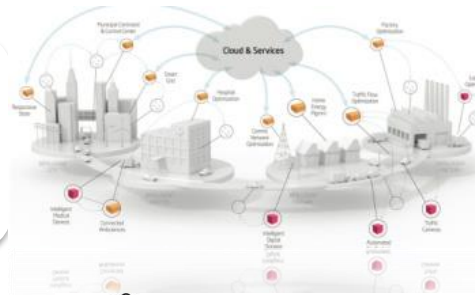
5 Technical staff

~ 50 articles in leading refereed international journals per year

# DAPI - AUTOMATION, PRODUCTION AND COMPUTER SCIENCES

## Main focuses

**Industry of Future  
Factory of the Future  
Mobility of the Future  
Cyber-Physical Systems**



## Perspectives

### Software Engineering (GLR)

- Cloud, IoT, edge computing
- Energy-efficient software systems
- Low-code software development, software modelling

### Optimisation and Decision Aid (OAD)

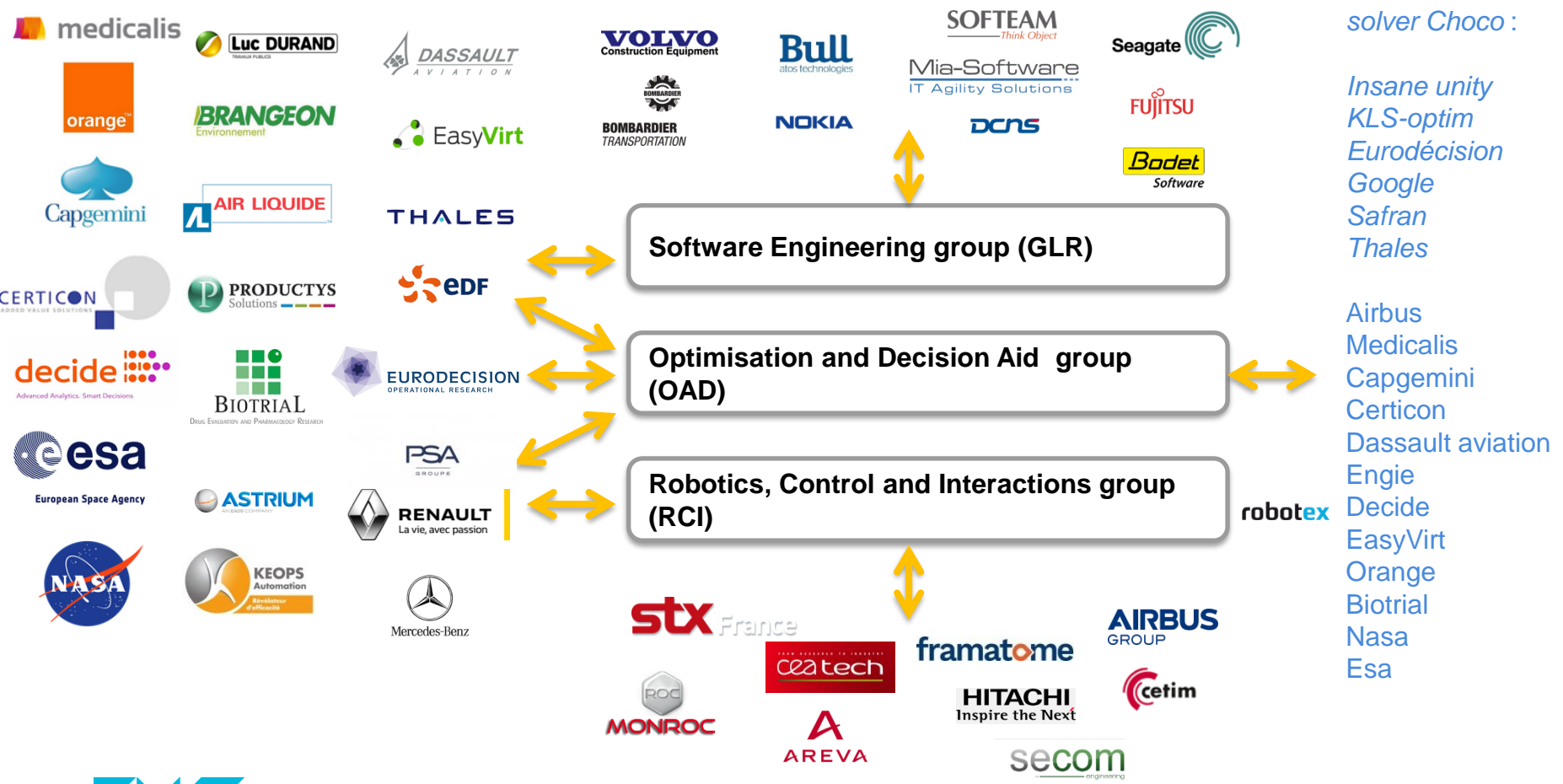
- Integration: constraint/mathematical programming/ machine learning
- Combinatorial optimisation of large scale systems (deterministic and stochastic)
- Industry of the Future

### Robotics and Automatic Control (RCI)

- Soft robotics
- Autonomous vehicle, multi-energy, networked control
- Human factors engineering



# INDUSTRIAL PARTNERS



*solver Choco :*

*Insane unity  
KLS-optim  
Eurodécision  
Google  
Safran  
Thales*

*Airbus  
Medicalis  
Capgemini  
Certicon  
Dassault aviation  
Engie  
Decide  
EasyVirt  
Orange  
Biotrial  
Nasa  
Esa*

# EXEMPLES DE PROJETS

**ASSISTANT, EU, coordinator:** aims to provide a set of AI-based digital twins system that helps process engineer and production planner to operate collaborative mixed-model assembly lines based on the data collected from IoT devices and external data sources.

**LOWCOMOTE, EU, coordinator:** Low-code development platforms allow non-programmers to build full applications by interacting through dynamic graphical user interfaces, visual diagrams and declarative languages.

In addition to these two large projects coordinated by the DAPI and finished in 2024, we participate in **6 other European projects including one also as coordinator**

We also have **6 projects** funded by the ANR (National Agency for Research), including **2 projects** as coordinators.

**IJPR**



**Taylor & Francis Group**  
an **informa** business

# International Journal of Production Research



**IMT Atlantique**  
Bretagne-Pays de la Loire  
École Mines-Télécom



- Established in 1961:
  - 60<sup>th</sup> Anniversary of the Journal in 2021
  - 60<sup>th</sup> Volume Anniversary in 2022
- ~390 papers published across 24 issues per year (2023)
- 10% acceptance rate (2024)
- **Flagship of our profession!**
- **Read in more than 200 countries, 1.8 million downloads per year**

## Subject Classifications

### Web of Science

- Industrial Engineering
- Manufacturing Engineering
- Operations Research & Management Science

### Scopus

- Business, Management and Accounting: Strategy and Management
- Decision Sciences: Management Science and Operations Research
- Engineering: Industrial and Manufacturing Engineering

Timothy Fry, Joan Donohue et al., (University of South Carolina, USA) analyzed 15 journal ranking studies on operations management (OM)\* previously published in literature that concerned 147 best journals, then a DEA model was proposed.

Fry, T. D., & Donohue, J. M. (2013). Outlets for operations management research: a DEA assessment of journal quality and rankings. *International Journal of Production Research*, 51(23–24), 7501–7526.  
<https://doi.org/10.1080/00207543.2013.783245>

This exciting American view gives a ranking of the 32 best OM journals and placed

IJPR\*\* in **4th position (!)** after:

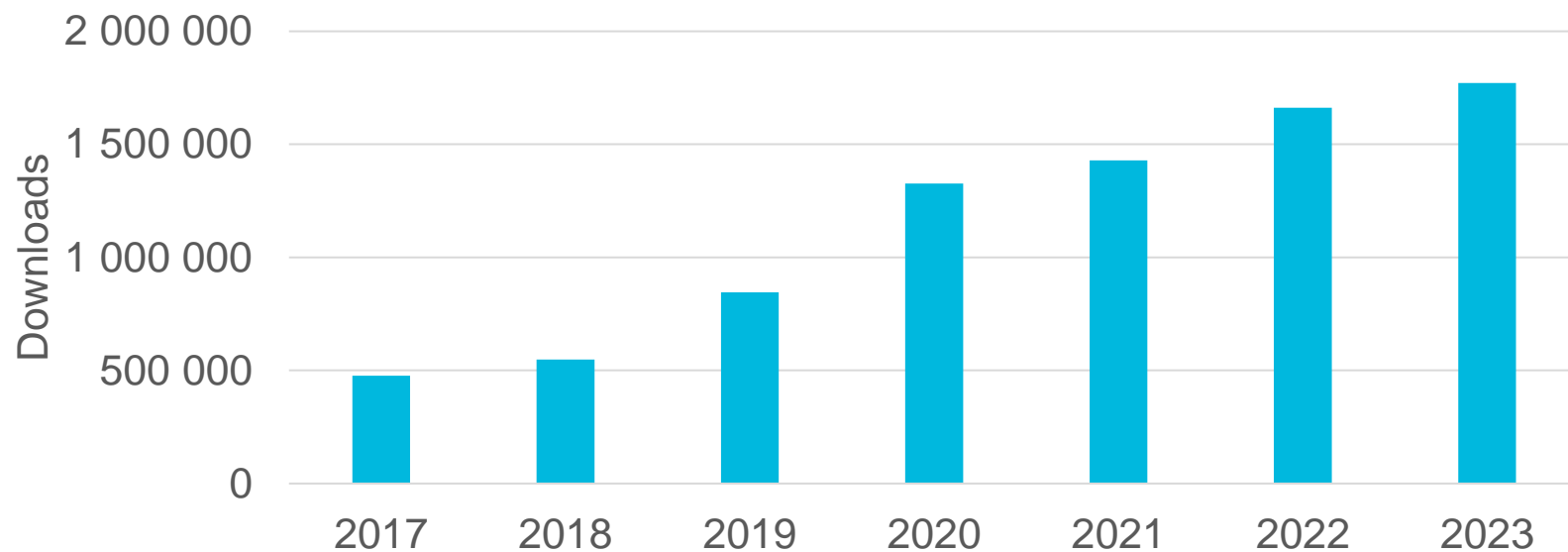
- *Management Science*
- *Journal of Operations Management*
- *Operations Research*

\* IJPR covers not only OM but IE and Manufacturing issues

\*\* The first European based journal listed

## Growth in downloads

Article downloads by Year

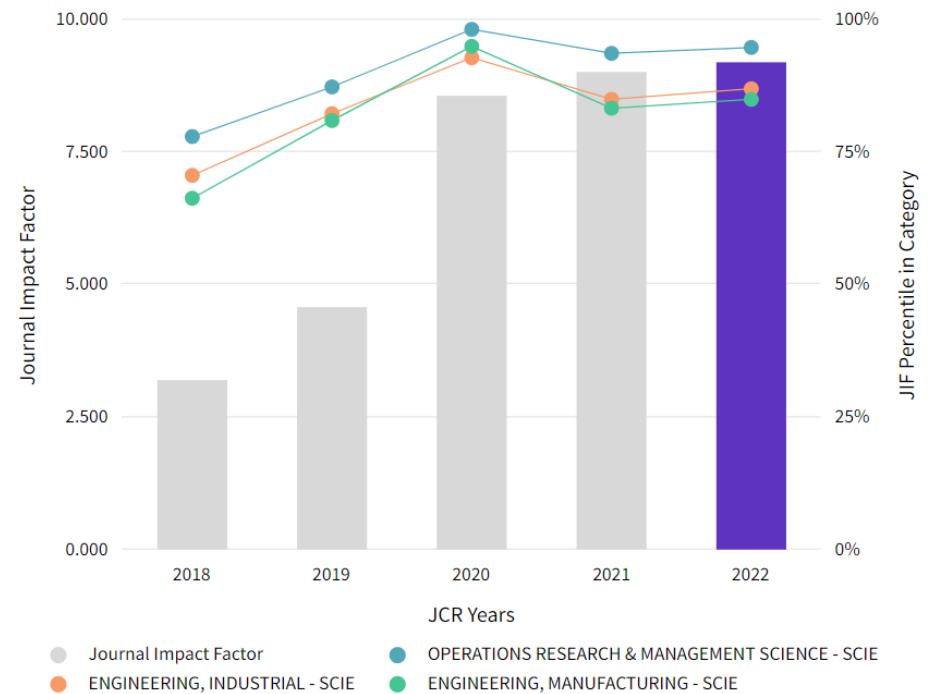


## Citation metrics (Journal Citation Reports)

2022 JOURNAL IMPACT FACTOR

### 9.2

Journal Impact Factor Trend 2022





## Citation metrics (Scopus and SCImago)

CiteScore 2022

$$18.1 = \frac{27,911 \text{ Citations 2019 - 2022}}{1,546 \text{ Documents 2019 - 2022}}$$

Calculated on 05 May, 2023

CiteScoreTracker 2023

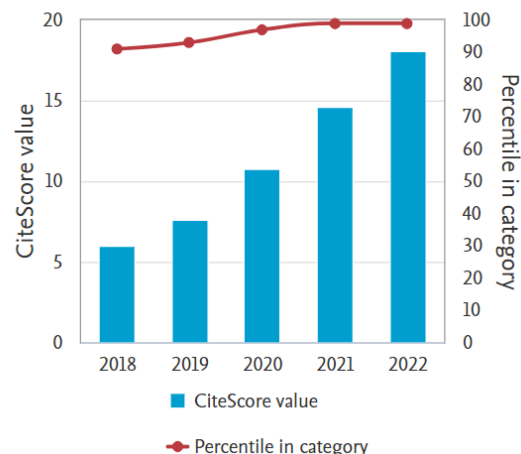
$$19.2 = \frac{30,184 \text{ Citations to date}}{1,574 \text{ Documents to date}}$$

Last updated on 05 April, 2024 - Updated monthly

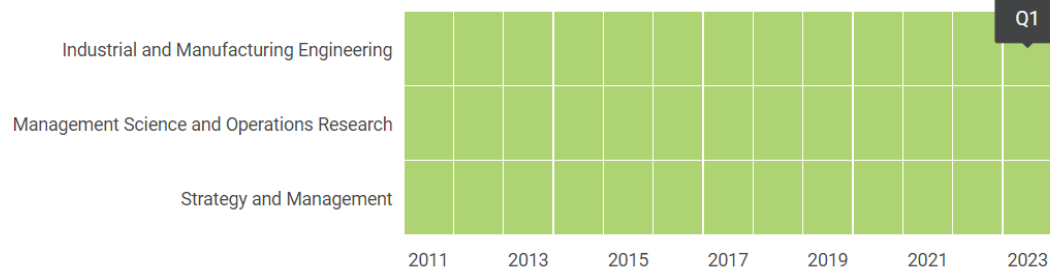
### CiteScore rank 2022

Category	Rank	Percentile
Decision Sciences		
Management Science and Operations Research	#2/198	99th
Business, Management and Accounting		
Strategy and Management	#7/473	98th
Engineering		
Industrial and Manufacturing Engineering	#9/355	97th

### CiteScore trend



### Quartiles



## Aim & Scope of IJPR

The journal aims to disseminate research on *decision aid in manufacturing, operations management and logistics*,

based on fundamental mathematical techniques from **computer, decision and management sciences** which can be used in the design, measurement or operation of production and logistics systems,

models for analysis of manufacturing strategies and tools as well as the contribution of *new information technologies* to production management and logistics are also considered.

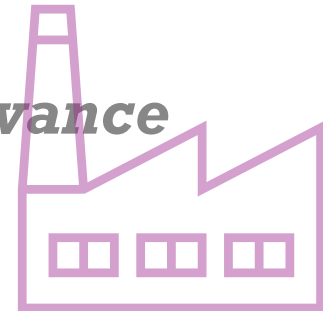




## International Journal of Production Research

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*Scientific rigor & Practical relevance*

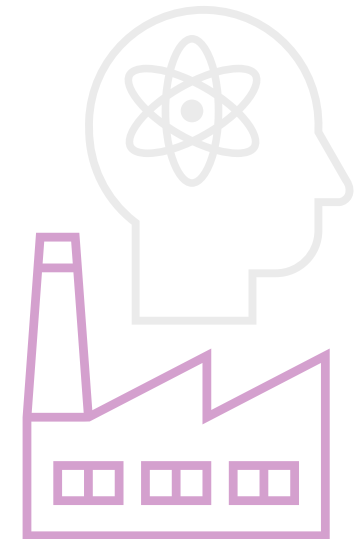


## Scientific rigor & practical relevance

The reputation of IJPR was based on a **strong link with industrial applications**

Convincing scientific results **with clear real-life applications** are the principal criteria for the selection of our papers

*Didactic articles, presenting new and interesting production research problems or/and new applications are also welcome*





## Editor-in-Chief: **Alexandre Dolgui**

*I invite you to submit always your best scientific results to the International Journal of Production Research!*

- **Submit here**  
[www.tandfonline.com/tprs](http://www.tandfonline.com/tprs)
- **Follow us on LinkedIn**  
[linkedin.com/company/international-journal-of-production-research](https://linkedin.com/company/international-journal-of-production-research)

# Information Control Problems in Manufacturing: History of INCOM Symposium



**IMT Atlantique**  
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École Mines-Télécom

# The first IFAC Symposium INCOM

Tokyo, Japan, 1977, October 17<sup>th</sup> to 20<sup>th</sup>, Editor: Y. Oshima

IFAC Technical Committee on Manufacturing Technology



## Topics considered:

- Information control issue associated with material processing such as *numerical control* and adaptive control of machine tools
- Information control issue associated with material handling such as *robotics*
- Information control issue associated with *assembly and inspection*
- Information processing such as *CAD, pattern recognition and artificial intelligence* in manufacturing processes
- Micro-economic modelling of *manufacturing automation* processes

## Symposium program was composed of:

2 plenary talks, 1 special lecture and 43 papers presented in technical sessions.

The first two periods for INCOM symposia  
**IFAC Technical Committee on Manufacturing Technology**

Stuttgart, Federal Republic of Germany 22-24  
October 1979, Editor: [U. Rembold](#)

Budapest, Hungary, 22-25 October 1980, Editor:  
[T. M. R. Ellis](#)

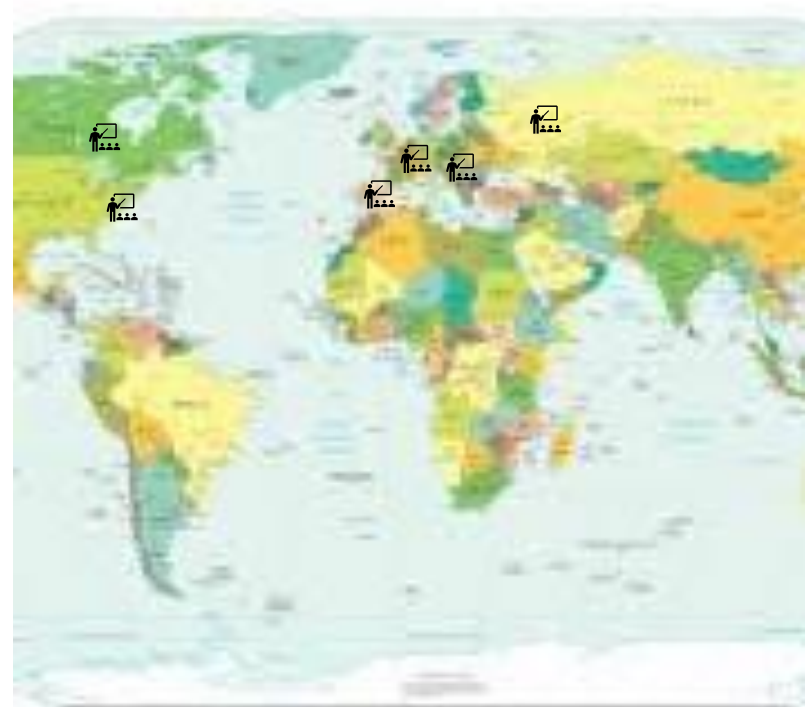
Maryland, USA, 26-28 October 1982, Editor:  
[D. E. Hardt](#)

Suzdal, USSR, 22-25 April 1986, Editor: [A. A. Tal'](#)

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Madrid, Spain, 26 – 29 September, 1989, Editors:  
[E.A. Puente](#), [L. Nemes](#)

Toronto, Ontario, Canada, 25 – 29 May 1992,  
Editor: [M. Zaremba](#)



# IFAC Technical Committee on **Advanced Manufacturing Technology (MIT-TC)**



TC chair: Marek Zaremba

# IFAC Technical Committee on **Advanced Manufacturing Technology (MIT-TC)**

Beijing, China, 11 – 13 October 1995 (**Information Control Problems in Manufacturing**), 120 participants



Nancy/Metz, France, 24-26 June, 1998, Editors: G. Morel, F. Vernadat (**the focus was on Information Control in Manufacturing and CIM**)

This INCOM'98 program had six main themes which focused on the role of information for automating manufacturing operations; the role of information for integrating and distributing automated manufacturing activities in the whole Enterprise and; the role of information for enhancing synergies between humans and machines.

**1998 Proceedings with around 200 papers**





TC Chair: Gerard Morel

# IFAC Technical Committee 5.1 on **Manufacturing Plant Control**

**Vienna, Austria, 20-22 September, 2001, Editor: P. Kopacek** (the name of 1995 Information Control Problems in Manufacturing restored)

Computer integrated manufacturing, flexible manufacturing systems and human machine interfaces to more advanced topics like intelligent manufacturing systems and equipment, information technology for integration in manufacturing and multi-agent systems.

2001 Proceedings with 2 review papers and **42 regular papers**.

**Salvador, BH, Brazil, April 5-7, 2004, Editors: P. Kopacek, G. Morel, C. E. Pereira**

Applications of automation, information and communication technologies in order to control and to manage the manufacturing plant within the e-enterprise, involving all methodological and technological aspects to embed a technical "intelligence" within the components, maintenance management.

2004 Proceedings with 7 keynote talks and **76 regular papers**.



# IFAC Technical Committee 5.1 on **Manufacturing Plant Control**



TC chair: Carlos  
Eduardo Pereira

Applications of *optimization methods, automation and IT technologies* in the control of *manufacturing plants* and the entire *supply chain*: Intelligent Manufacturing System and Supply Chain paradigms *for optimisation and agile digital control*. The whole **product and processes life cycle** was covered, from the design, through the manufacturing and maintenance, to the distribution and service.

2006 Proceedings with 7 keynote talks and 375 papers

**783** participants at INCOM'06 from **45** countries  
**544** academics  
**239** industrial representatives  
**130** Post Graduate and PhD students

**57 countries** were represented via the contributors

**98 sessions** in the final program

**42 industrial exhibitors**

**2665 pages** of symposium proceedings with **950 authors**

General chair: Prof. A. Dolgui



IPC chair: Prof. G. Morel



NOC chair: Prof. X. Boucher



# Seven Academic Keynote Speeches

## **ROBOTICS, AGENTS, AND E-WORK: THE FUTURE OF PRODUCTION**

Pr. Shimon Y. Nof, Purdue University, **USA**

## **INTEROPERABLE ENTERPRISE SYSTEMS**

Pr. François B. Vernadat, European Commission, **Luxemburg**

## **HOW DO QUANTITY AND QUALITY REALLY INTERACT?**

Dr. Stanley B. Gershwin, Massachusetts Institute of Technology, **USA**

## **SCHEDULING: NEW TRENDS IN INDUSTRIAL ENVIRONMENT**

Dr. Jean-Marie Proth, INRIA, **France**

## **DISTRIBUTED REAL-TIME EMBEDDED SYSTEMS**

Pr. Carlos Eduardo Pereira, Federal University of Rio Grande do Sul, **Brazil**

## **DATA MINING IN DESIGN OF PRODUCTS AND PRODUCTION SYSTEMS**

Pr. Andrew Kusiak, University of Iowa, **USA**

## **COLLABORATIVE NETWORKS**

Pr. Agostino Villa, Politecnico di Torino, **Italy**

# Both Academic and Industrial Keynotes

## Pr. Stanley B. Gershwin

USA  
Massachusetts Institute of Technology  
Mechanical Engineering



## Timothy L. Johnson

USA  
General Electric, Direction R&D

## Pr. Carlos Eduardo Pereira

BRAZIL  
Federal University of Rio Grande do Sul  
Electrical Engineering



**Academic and  
industrial leaders  
meet together at  
INCOM'06**



## Robert Ronchi

FRANCE  
ST-Microelectronics, Direction R&D

## Pr. François B. Vernadat

LUXEMBOURG  
European Commission  
Information Systems



## James P. IGNIZIO

USA  
INTEL Corporation, R&D

# Both Academic and Industrial Keynotes

**Pr. Andrew Kusiak**

USA  
University of Iowa  
Mechanical and Industrial Engineering



**Roland Menassa**

USA  
GM Research & Development

**Pr. Agostino Villa**

ITALY  
Polytechnico di Torino  
Production Systems



**Anthony Poncet**

FRANCE  
Renault-Trucks

**Pr. Shimon Y. Nof**

USA  
Purdue University  
Robotics and e-Manufacturing



**Academic and  
industrial leaders  
meet together at  
INCOM'06**



**Mathieu Glade**

FRANCE  
Eurocopter-EADS

**Dr. Jean-Marie Proth**

FRANCE, INRIA  
Operation Research and Supply Chain



**Detlev Glüer**

GERMANY  
AMD- Advanced Micro



# Symposium Program

- PLM
- Logistics
- Mechatronic systems
- Information systems
- Reconfigurable production systems
- E-business
- Supply networks
- Web-Intelligence
- Optimization
- Artificial intelligence
- Metaheuristics
- Multi-Agents Systems
- Simulation
- Holonic systems

## Scope and Topics

- e-Solutions to Plan and Design of Manufacturing Systems
- Facilities Planning and Materials Handling
- Inventory Control, Production Planning and Scheduling
- Monitoring, Diagnosis and Maintenance of Manufacturing Systems
- Web-enabled Manufacturing Control and Wireless Automation
- Process Modeling and Information Systems within the Extended Enterprise
- Socio-technical and Cognitive Aspects of Automation
- Intelligent Manufacturing Systems Modeling and Applications
- Distributed Systems and Multi-agents Technologies
- Discrete Event Systems Simulation in Manufacturing
- Operational Research Applications in CAD/CAM/CAE



# Special issues of journals after the Symposium

<https://events.mines-stetienne.fr/incom2006/publication.html>

- IFAC Annual Review in Control
- IFAC Engineering Applications of Artificial Intelligence
- IFAC Control Engineering Practice
- IFAC Mecatronics
- **International Journal of Production Research**
- International Journal of Production Economics
- European Journal of Operational Research
- Computers & Operations Research
- International Journal of Computer Integrated Manufacturing
- International Journal of Systems Science
- Journal of Intelligent Manufacturing (2 issues)
- Production Planning and Control
- International Journal of Information Technology and Management
- Computers in Industry
- International Journal of Mathematical Modelling and Algorithms



16 special issues were published in leading journals

# IFAC Coordinating Committee (CC) 5 on **Manufacturing and Logistics Systems**

After **INCOM 2006**, the Symposium is at the CC level



CC chair: Shimon Y. Nof

CC 5 on **Manufacturing and Logistics Systems:**

**TC 5.1** on Manufacturing Plant Control

**TC 5.2** on Manufacturing Modelling for Management and Control

**TC 5.3** on Enterprise Integration and Networking

**TC 5.4** on Large Scale Complex Systems

# IFAC Coordinating Committee 5 on **Manufacturing and Logistics Systems**

Prof. **Alexandre Dolgui**, IPC chair for INCOM 2009, 2012 and 2015



Chair of TC 5.2

**Moscow, Russia, 3-5 May, 2009,**  
Editors: N. Bakhtadze, K. Chernyshov, A. Dolgui,  
V. Lototsky

<http://incom09.org/> **654 participants**

NOC Chair: Prof. **Natalia Bakhtadze**

2009 Proceedings with **368 papers** by approximately 900 authors



**Bucharest, Romania, 23-25 May 2012,** Editors: T. Borangiu,  
I. Dumitrache, A. Dolgui, F. Filip

NOC Chair: Prof. **Theodor Borangiu**

2012 Proceedings with 7 keynote talks and **344 papers**



After **INCOM 2006**, the Symposium is at the CC level



CC chair: Prof. Hervé  
Panetto

CC 5 on **Manufacturing and Logistics Systems:**

**TC 5.1** Manufacturing Plant Control

**TC 5.2** Manufacturing Modelling for Management and Control

**TC 5.3** Enterprise Integration and Networking

**TC 5.4** Large Scale Complex Systems

Prof. Alexandre Dolgui, IPC chair for INCOM 2015



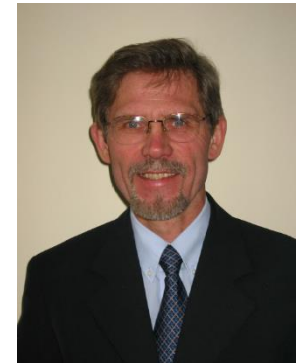
Chair of TC 5.2

**Ottawa, Ontario, Canada, 11-13 May, 2015,**  
Editors: A. Dolgui, J. Sasiadek and M. Zaremba

[www.incom2015.org](http://www.incom2015.org)

NOC Chair: Prof. **Marek Zaremba**

2015 Proceedings with **432 papers** by around 1000 authors.



**INCOM 2006, 2009, 2012 and 2015:**

*Large participation ~500 academics on average, post-symposium special issues, scope extended to decision aid, optimization and industrial engineering, large place for integrated approaches (product/process, product/process/supply chain...)*

# IFAC Coordinating Committee 5 on **Manufacturing and Logistics Systems**

Prof. **László Monostori**, IPC Chair of INCOM 2018



**Bergamo, Italy, Canada, 11-13 June, 2018,**  
Editors: Marco Macchi, Roberto Pinto, László Monostori

<https://www.incom2018.org/>

Co-Chairs: Prof. **Sergio Cavalieri** and Prof. **Marco Macchi**

2018 Proceedings with **297 papers**

**7 journals associated**



*Large participation,  
post-symposium publications in journals,  
focus on **responsiveness***



*Responsiveness depends substantially on the progress in advanced technologies and innovative methodologies at all levels of design, manufacturing and control of the industrial infrastructure*



CC 5 on **Cyber-Physical Manufacturing Enterprises:**

**TC 5.1** Manufacturing Plant Control

**TC 5.2** Manufacturing Modelling for Management and Control

**TC 5.3** Integration and Interoperability of Enterprise Systems

**TC 5.4** Large Scale Complex Systems

CC chair: Prof. Benoit Iung

# IFAC Coordinating Committee 5 on **Cyber-Physical Manufacturing Enterprises**

Prof. **H. Panetto** and Prof. **B. Iung**, IPC co-Chairs of INCOM 2021



**Virtual: 7-9 June 2021**, SZTAKI & EPIC CoE, Hungary  
Editors: László Monostori, Botond Kádár, Ádám Szaller

<https://incom2021.org>

Co-Chairs: Prof. **László Monostori** and Dr. **Botond Kádár**

2021 Proceedings with **208 papers**



**COVID**, so a *virtual symposium*

*Cooperative control, multi-agent systems, complex adaptive systems, emergent systems, sensor networks, data mining, etc., were discussed for exchanging knowledge in this exiting and highly relevant field*



CC 5 on **Cyber-Physical Manufacturing Enterprises:**

**TC 5.1** Manufacturing Plant Control

**TC 5.2** Manufacturing Modelling for Management and Control

**TC 5.3** Integration and Interoperability of Enterprise Systems

**TC 5.4** Large Scale Complex Systems

CC chair: Prof. Dmitry Ivanov

# IFAC Coordinating Committee 5 on **Cyber-Physical Manufacturing Enterprises**

IPC co-chairs:



**28-30 August 2024, Vienna, Austria**

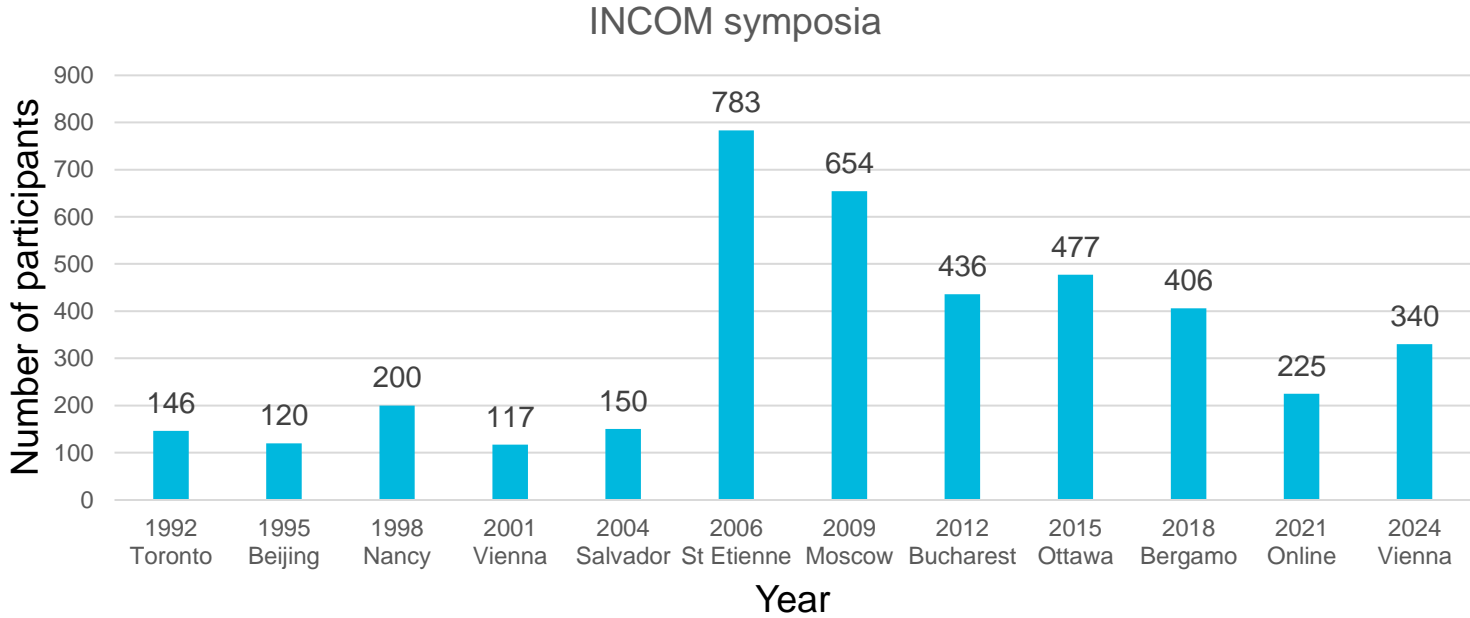
<https://www.incom2024.org/>

NOC Chair and Co-Chairs: Prof. Dr. **Fazel Ansari**, Prof. Dr. **Sebastian Schlund**, Prof. Dr. **Wilfried Sih**



*The final statistics will be known at the closing ceremony,  
proceedings published after the symposium*

# Number of participants at INCOMs last 20 years



# Scope and topics over the time

- Creation and first periods of INCOM
- Growth of INCOM from 2004 to 2015
- Maturity of INCOM after 2015

1977 – 1986 **Machine level**: CAD/CAM, NC for machine tools, Control issues in Robotics (for material handling), Pattern recognition and **Artificial Intelligence** in manufacturing processes (especially for quality control), FMS

1986 – 1992 **Cell level**: FMS, Simulation, Petri nets, Layout, Scheduling

1992 – 2006 **Enterprise level**: information for automating manufacturing operations; CIM, multi-agent approaches, synergies between humans and machines.

Since 2006 **The entire Supply Chain**: integration of control, optimization and industrial engineering approaches, the **whole** product, processes and system **life cycle** are covered (design, manufacturing, maintenance, distribution and services).

# Strong publications

Strong selection and publication of the Proceedings in *IFAC PapersOnLine* by Elsevier (indexed in Scopus and by WoS)

Special issues of leading international journals with extended versions of best papers selected at INCOM:

IFAC Annual Review in Control

IFAC Engineering Applications of Artificial Intelligence

IFAC Control Engineering Practice (why not in IFAC Automatica)

but also in traditional partner journals:

**International Journal of Production Research**

Journal of Intelligent Manufacturing

Computers in Industry

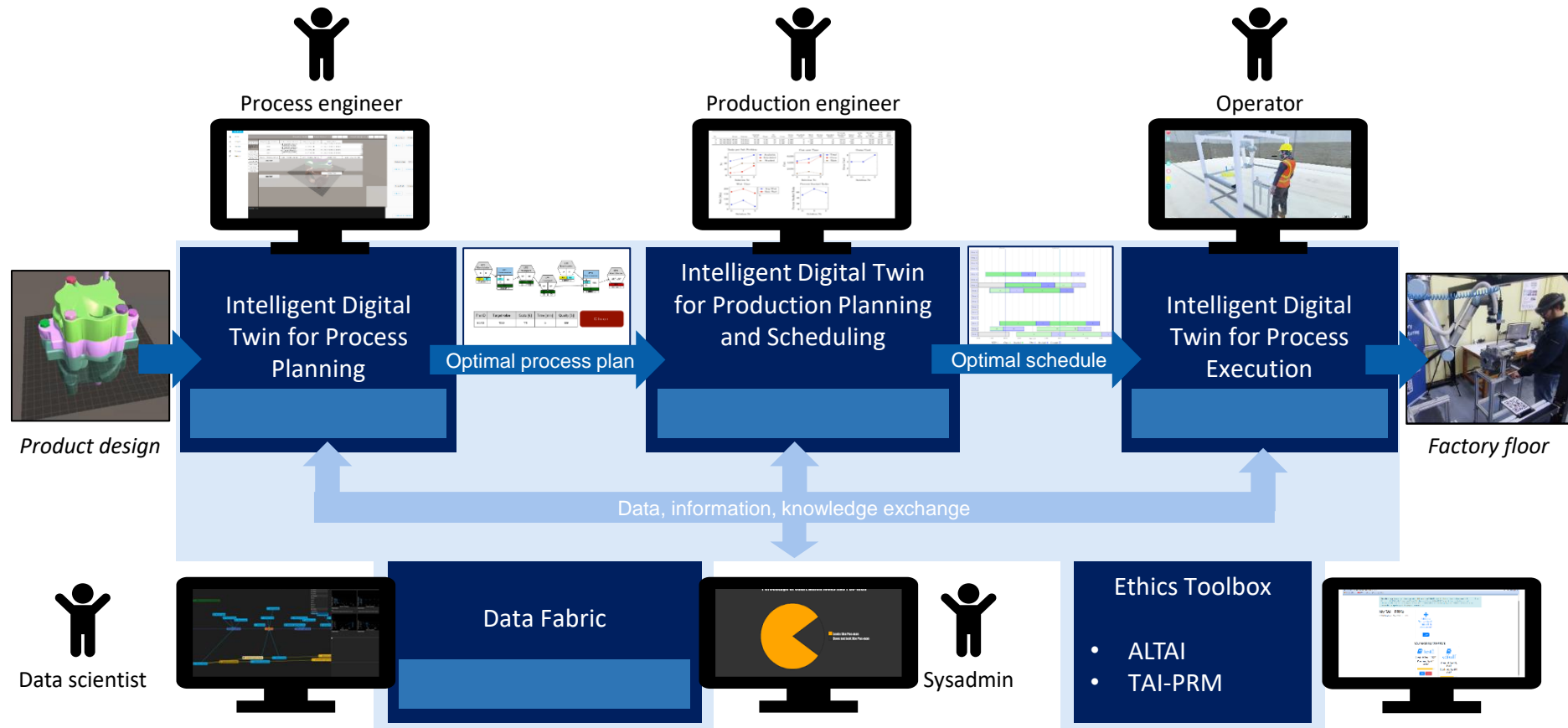
etc.



# Tendencies and challenges for the next INCOMs

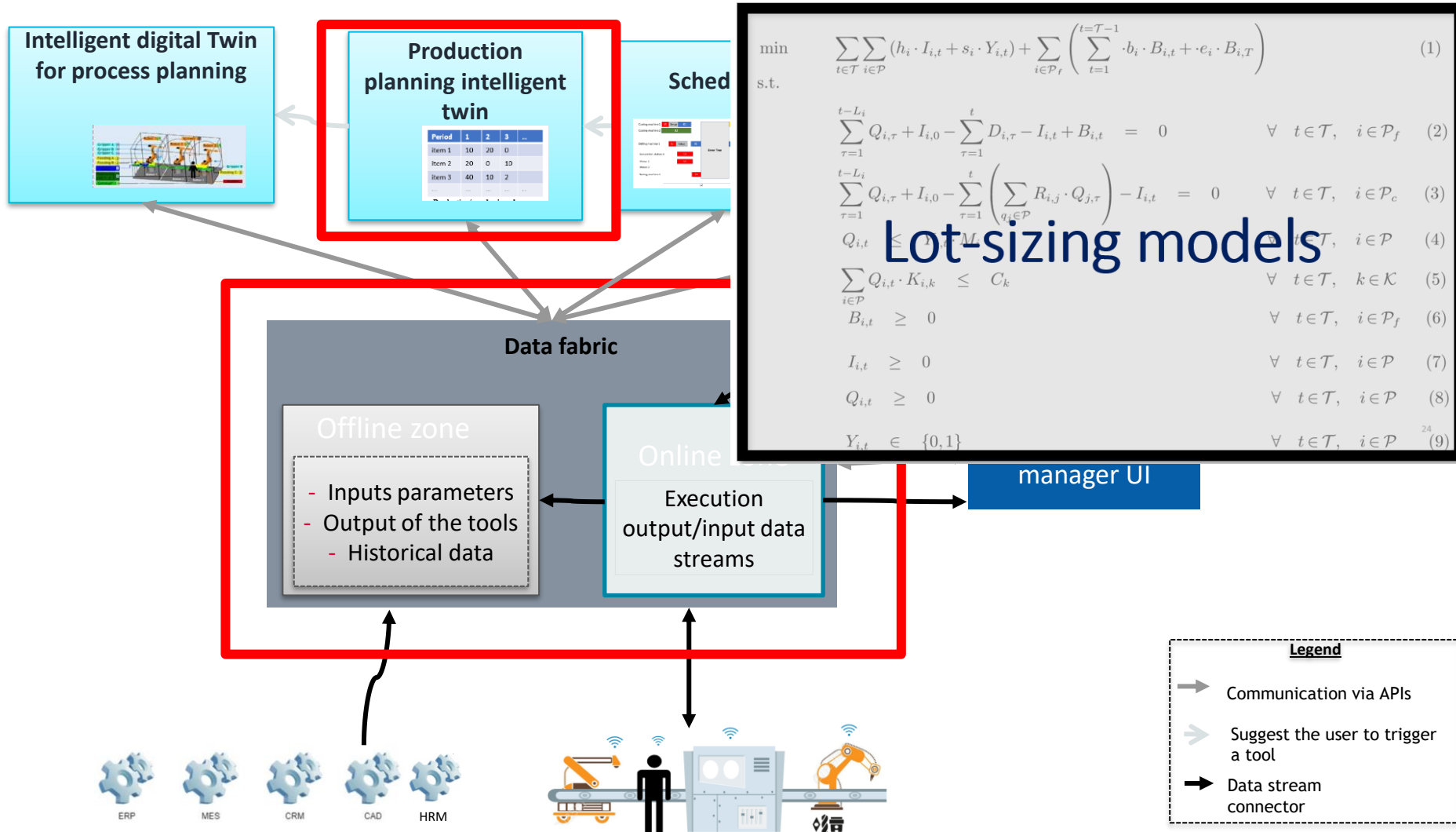
## Challenge 1: Artificial Intelligence and Digital Twins (see European Project ASSISTANT)

### THE ASSISTANT SOLUTION



# Tendencies and challenges for the next INCOMs:

## Challenge 1: Artificial Intelligence and Digital Twins (European Project ASSISTANT)



# Tendencies and challenges for the next INCOMs:

Challenge 2. Supply chain viability (slide from INFORMS meeting 2023, Dolgui, Ivanov)

## Supply Chain Resilience

**Supply chain resilience** is the firm's capability to withstand, adapt, and recover from disruptions to meet customer demand and ensure the target performance.

**Disruption:** An event which is not planned or anticipated and may affect the structure or dynamics of systems.

*Economic and political shocks or changes, Terrorist attacks, Natural disasters, Epidemics, Labor strike, Legal disputes*

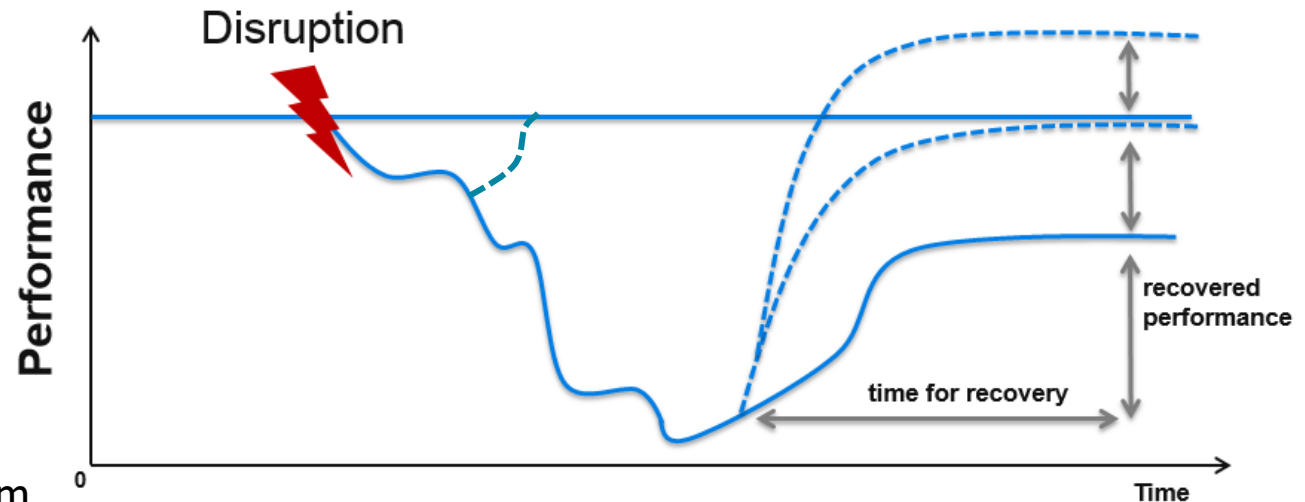
Risk = Virus

Resilience = Immune System

Two essential views on resilience:

1. **Performance-deviation** based – resilience is a *quantity / outcome* measured by **recovery** effects and performance deviations
2. **Adaptation**-based – resilience is a system property / *quality* aiming at the **persistence of the system performance**

**Only a resilient supply chain can be profitable.**

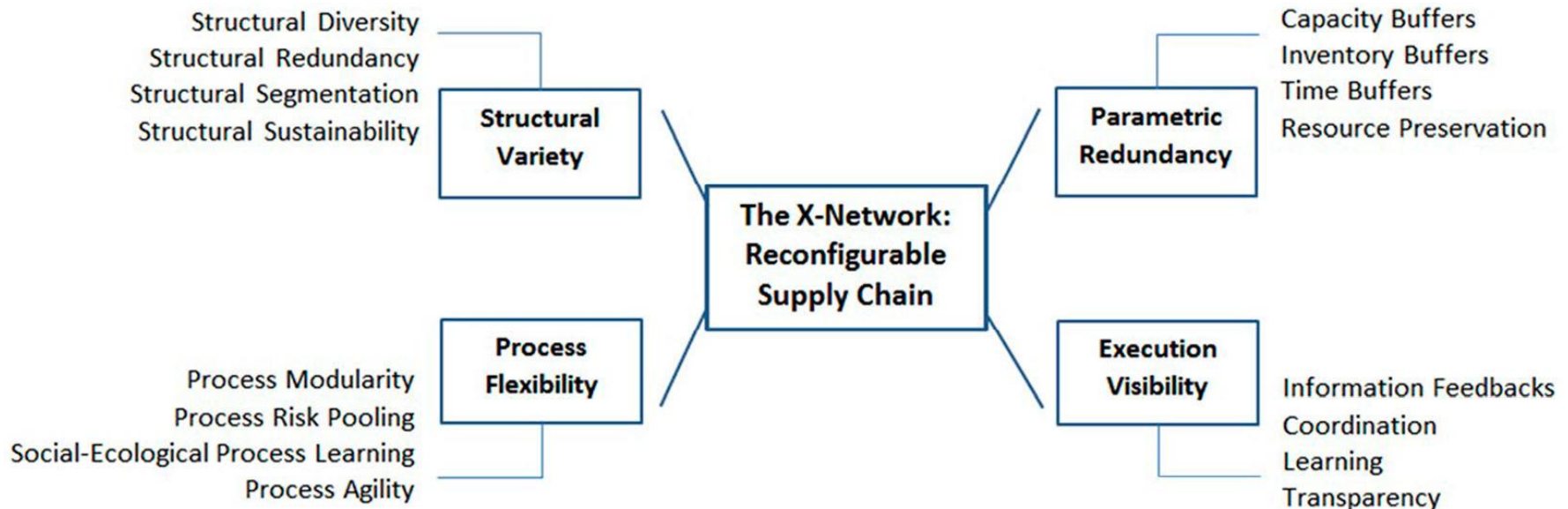


Hosseini S., Ivanov D., Dolgui A. (2019). Review of quantitative methods for supply chain resilience analysis. **Transportation Research: Part E**, 125, 285-307.

# Tendencies and challenges for the next INCOMs:

## Challenge 3. Reconfigurable Supply Networks (Dolgui, Ivanov, Sokolov)

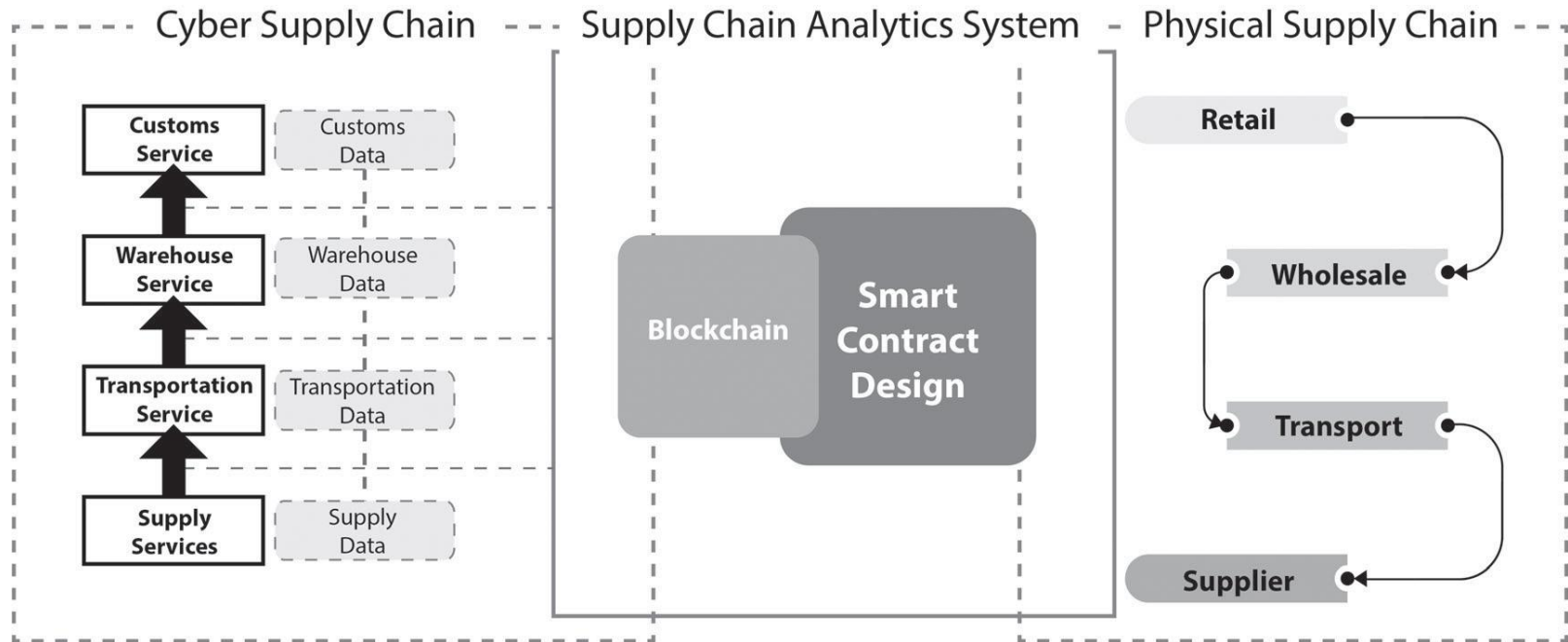
### Reconfigurable Supply Chain: the X-Network



Alexandre Dolgui , Dmitry Ivanov & Boris Sokolov (2020) Reconfigurable supply chain: the X-network, International Journal of Production Research, vol. 58, n°13, pp. 4138-4163

# Tendencies and challenges for the next INCOMs:

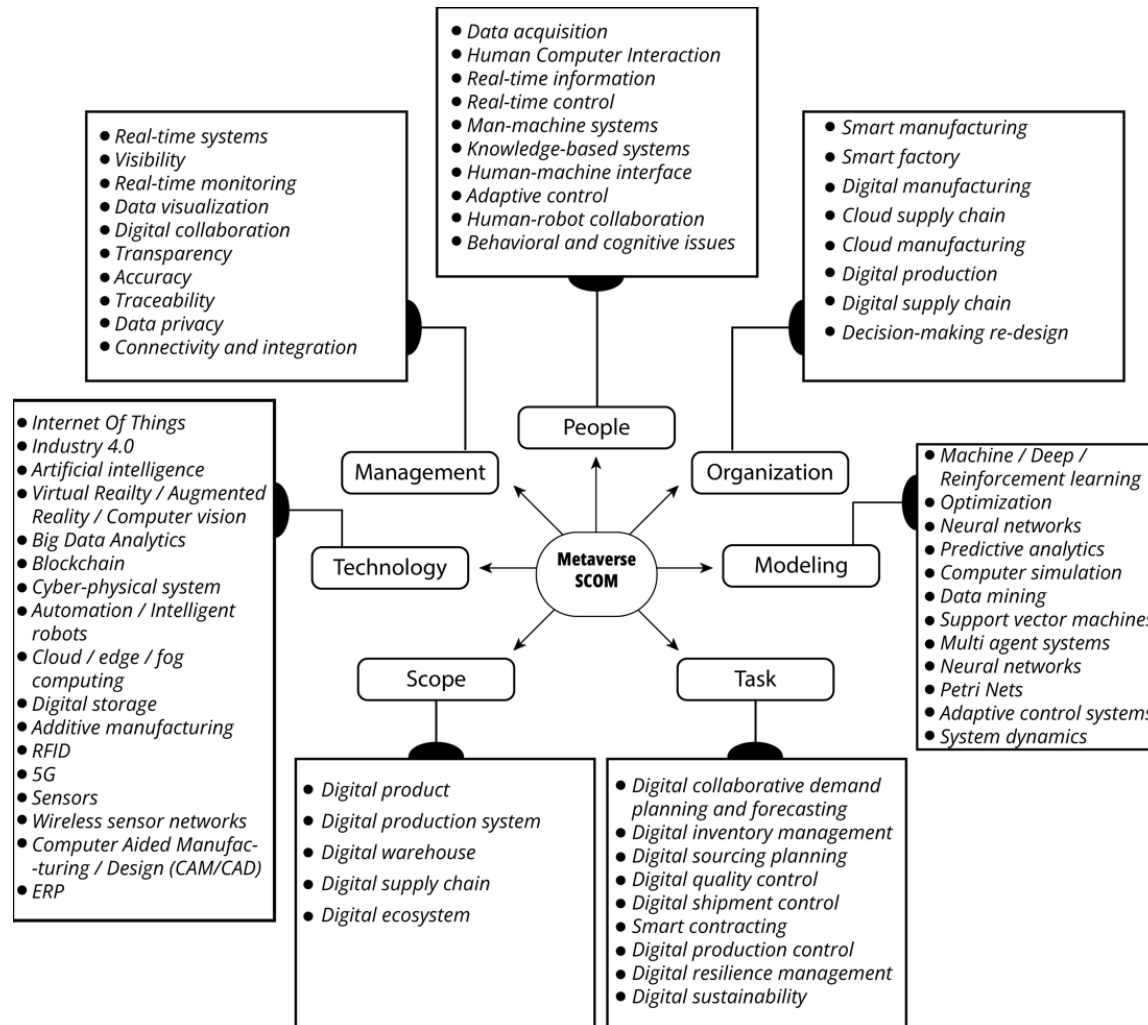
## Challenge 4. Blockchains and smart contracts (see Dolgui, Ivanov, et al.)



A. Dolgui, D. Ivanov, S. Potryasaev, B. Sokolov, F. Werner. Blockchain-oriented dynamic modelling of smart contract design and execution in the supply chain, *International Journal of Production Research*, 2020, vol. 58, n°7, pp. 2184-2199.

# Tendencies and challenges for the next INCOMs:

## Challenge 5. Metaverse (see Dolgui, Ivanov)



## IFAC MIM Conference (TC 5.2) also every 3 years

Since 2013 the IFAC MIM Conference relaunched (stopped in 2007) by TC 5.2 with more reduced scope than IFAC INCOM but with the **similar ambition** of large visibility for a part of our community

So the Symposium INCOM evolves now, since 2015, in *a different environment* than in the period 2006 – 2015



St Petersburg, Russia, **455 participants**  
<http://mim2013.org/>



Berlin, Germany, **740 participants**  
<https://blog.hwr-berlin.de/mim2019/>



Troyes, France, **540 participants**



Nantes, France, **767 participants**  
<https://hub.imt-atlantique.fr/mim2022/>

# Large and complete offer of events for our community by IFAC

- IFAC INCOM Symposium, CC 5, every 3 years, current Incom 2024 in Vienna, Austria, **next will be in 2027**



- IFAC MIM Conference, TC 5.2, every 3 years, next **MIM 2025** is Norway, Trondheim, **30 June – 3 July**, NOC chair: **Prof. Fabio Sgarbossa** [fabio.sgarbossa@ntnu.no](mailto:fabio.sgarbossa@ntnu.no)



- IFAC World Congress 2026, every 3 years, Korea, **23 – 28 August, 2026**

This offer is completed, of course, with more focused events as:  
**LSS** symposium, **IMS** and **EI2N** workshops

# CALL FOR CONTRIBUTIONS – IFAC MIM2025



**11th IFAC Conference on  
Manufacturing Modelling, Management and Control**  
Trondheim, Norway, 30 June - 3 July 2025  
*Research and Innovation on Manufacturing and Logistics for a better world*



[conferences.ifac-control.org/mim2025](https://conferences.ifac-control.org/mim2025)

## SAVE THE DATES!!!

**15/09/2024** - Invited sessions and tracks submission deadline

**30/11/2024** - Full regular papers, papers for invited tracks/sessions, extended abstracts deadline

**SUBMIT YOUR CONTRIBUTION VIA <https://ifac.papercept.net/>**

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# INCOM 2027

## The 19<sup>th</sup> IFAC Symposium on Information Control Problems in Manufacturing

June 28 – 30, 2027  
Nantes, France



**IMT Atlantique**  
Bretagne-Pays de la Loire  
École Mines-Télécom



<https://en.wikipedia.org/wiki/Nantes>

# Local Organizer

Organizer: IMT Atlantique – An Elite Technological University,  
campus in Nantes



## Digital Sciences Lab of Nantes

Nantes' research expertise in computer science  
and cybernetics to develop digital sciences,  
inclusive of other disciplines

### **A Joint Research Unit of the CNRS (UMR6004):**

Supported by 5 public institutions of Higher Education and  
Research

# Welcome in Nantes!



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Thank you very much for your attention!



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