



**11th IFAC Conference on  
Manufacturing Modelling, Management and Control**  
Trondheim, Norway, 30 June - 3 July 2025

<http://conferences.ifac-control.org/mim2025/>

Trondheim, Norway, June 30 – July 03, 2025

### Invited Session

## **Modelling and Control of Green Manufacturing Systems using Discrete-Event Approaches: Petri Nets, Automata, Max-Plus Algebra, etc.**

**INVITED SESSION CODE: 3yr6x**

#### Organized by:

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#### Aim & scope:

As the global focus on sustainability intensifies, the manufacturing sector is increasingly required to adopt green practices. This special session aims to bring together researchers and practitioners who are at the forefront of integrating discrete-event modeling and control techniques (Petri Nets, Automata, Max-Plus Algebra, etc.) into green manufacturing systems. By leveraging discrete-event tools, we can enhance the efficiency and sustainability of manufacturing processes, optimize resource utilization, and reduce waste. This session will explore innovative methodologies, case studies, and practical applications that demonstrate the effectiveness of these tools in advancing green manufacturing initiatives.

**Keywords:** Green Manufacturing Systems, Modelling, Control, Petri Nets, Automata, Max-Plus Algebra.

**Submission:** The submission process and the guidelines of paper preparation can be found on the web page of the conference at: <http://conferences.ifac-control.org/mim2025/>

#### Important dates:

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

30/01/2025 - Notifications to authors and Registrations open

28/01/2025 - Camera ready paper submission deadline

- Draft papers reporting original research (limited to 6 pages in IFAC format) are welcome.
- Accepted papers will be published open access in [Elsevier's IFAC-PapersOnLine](#).
- Post-conference special issues for extended versions of accepted papers are planned in IFAC and other high-ranked journals.

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