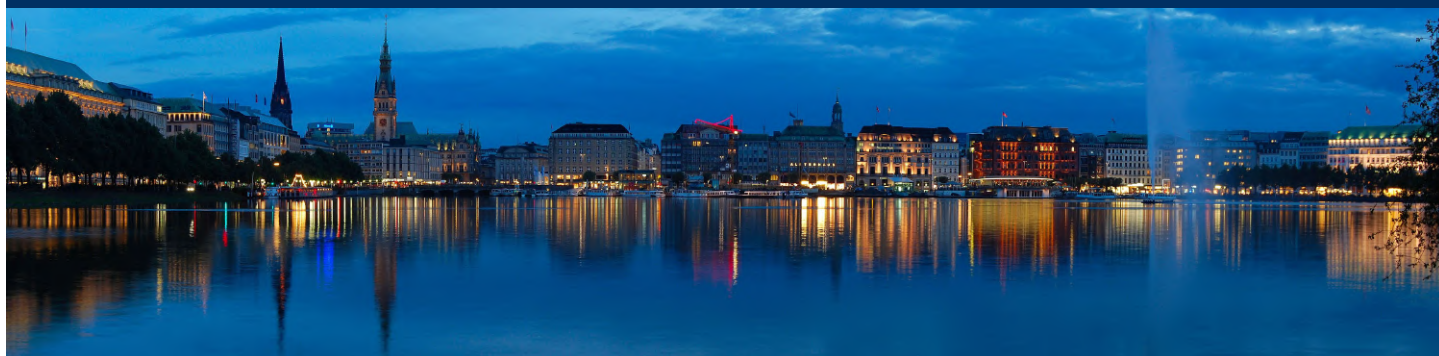


9th IFAC Conference on Nonlinear Model Predictive Control



IFAC NMPC 2027

September 13-16, 2027
Hamburg, Germany



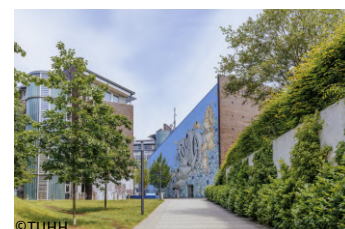
*Join us for the 9th triennial IFAC NMPC (single-track conference) in Hamburg,
where the sea meets the city and old maritime grit runs into world-class culture!*

Scope and Topics: Model Predictive Control (MPC) has emerged as a leading advanced control methodology across major industries including process engineering, energy systems, automotive, aerospace and robotics. Its enduring appeal stems from its ability to handle constraints and seamlessly integrate with distributed optimization, data-driven modeling and machine learning. Over the years, MPC has expanded beyond its traditional linear setting to address nonlinear, hybrid, distributed and large-scale systems. Advances in computation, optimization, and machine learning have further broadened MPC to tackle increasingly complex and uncertain systems. The IFAC NMPC conference provides a focused forum to present advances in these areas and engage with researchers working at their intersection.

We invite paper submissions in the following topics, among others:

- Theoretical foundations of NMPC
- Stochastic, robust and distributed NMPC
- NMPC and communication
- Data-driven predictive control
- Numerical methods for NMPC
- Machine Learning and NMPC
- Foundational models and NMPC
- New frontiers in NMPC
- NMPC applications, for example in the domains:
 - Aeronautics, automotive, mechatronics
 - Biotechnology, process systems
 - Power, energy and HVAC systems
 - Medicine and medical engineering
 - Robotics
- Industrial applications of NMPC

Venue



Hamburg University of Technology (TUHH)

Important Dates

Paper submission opens:	15 Nov. 2026
Regular paper deadline:	21 Dec. 2026
Young Author Support deadline:	22 Jan. 2027
Discussion paper deadline:	26 Feb. 2027
Notification of decisions:	13 March 2027
Early registration deadline:	13 May 2027
Conference:	13–16 Sep. 2027

Contact: nmpc2027@tuhh.de

See you in Hamburg, September 2027!

More information



Sponsors

TUHH
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<https://nmpc2027.org/>

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Paper Submission and Registration

- Papers must be written in English and follow the IFAC paper style.
- Submissions must be made electronically via IFAC Papercept (<https://ifac.papercept.net/>).
- Regular Paper: 4 – 6 pages
- Discussion paper: 1 – 4 pages; discussion papers for late-breaking results will be published only as preprints, not in the proceedings.
- The IFAC Foundation invites young authors who are presenting papers to apply for Developing Countries – Young Author Support consisting of waive of registration fees.

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Robotics MPC

Sonia Martínez (UC San Diego)

Networked Systems MPC

Pepe Maestre (University of Seville)

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Sungho Shin (MIT)

Learning-based MPC

Anil Aswani (UC Berkeley)

Optimization and Software for MPC

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Robust and Stochastic MPC

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