

Industrial Maths in Europe

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- ▶ Mathematics, as the universal language of the sciences, plays a decisive role in technology, economics and the life sciences. This leaflet highlights some key activities in Europe in the area of Industrial Mathematics.

The **COST Action TD 1409 Mathematics in Industry Network (MI-NET)**, 2015-2019 has facilitated a more effective widespread application of mathematics to all industrial sectors, by funding industrial internships, industry workshops, training weeks, and short-term scientific missions.

The biannual **ECMI Conference on Industrial and Applied Mathematics** is the flagship meeting in Europe providing a forum of exchange between academia and industry. The 21st meeting will take place in Limerick, Ireland, June 22-26, 2020.

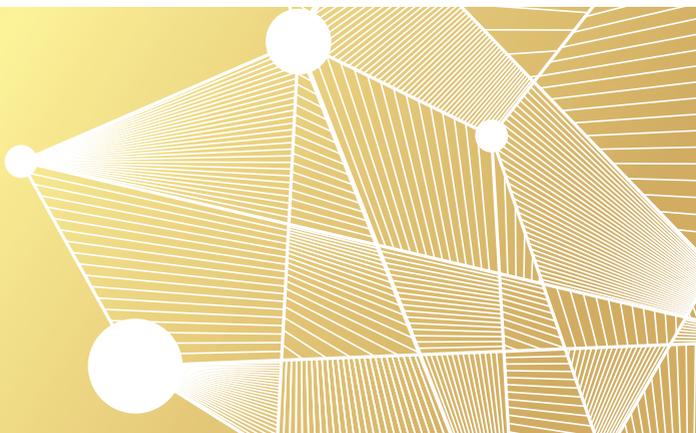


ECMI

The European Consortium for Mathematics in Industry (ECMI) is a collaboration between academic institutions and industrial companies throughout Europe.

ECMI aims to promote and support the use of mathematics in all activities of social or economic importance in Europe, as well as to further the education of industrial mathematicians to meet the growing demand for mathematical innovation and research.

- ▶ ECMI advocates the use of mathematical modelling, simulation, and optimization in industry.
- ▶ ECMI stimulates through its post-graduate programme, summers schools, and modelling weeks the education of young scientists and engineers to meet the growing demands of industry.
- ▶ ECMI promotes through conferences, Study Groups (ESGI's) and Special Interest Groups, European collaboration, interaction, and exchange within academia and industry.
- ▶ ECMI is associated with the Springer open access **Journal of Mathematics in Industry**, the APC is waived for submissions from our institutional members.



EU-MATHS-IN

- ▶ EU-MATHS-IN aims to leverage the impact of Mathematical Sciences and Technologies on industrial innovations by enhanced communication and information exchange among the involved stakeholders on a European level
- ▶ EU-MATHS-IN aims to coordinate and facilitate the required exchanges in the field of application-driven mathematical research and its exploitation for innovations in industry, science and enlarged society

EU-MATHS-IN is building an e-infrastructure that provides tailored access to information and facilitates communication and exchange by player-specific sets of services.

EU-MATHS-IN receives fruitful backing from European industry, and has established an Industrial Core Committee securing valuable contacts to policy makers at the European level as well as for creating a Strategic Research Agenda for the future of mathematics for industry and innovation.

Modelling, Simulation and Optimisation (MSO) in a Data Rich environment is one of the key enterprises in this respect, with a focus on Digital Twinning that is vital for European industry.





“We live in the era of mathematics. Its influence permeates economic and social activity and its influence and impact are profound.”

Lord Stern of Brentford, Kt FRS FBA



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