## **Modelling, Data Analytics and AI in Engineering**

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Modelling, data analytics, and AI represent transformative technologies that drive industrial applications across numerous sectors, including aerospace, construction, energy, transportation, manufacturing, and materials. They are reshaping problem-solving methodologies, tackling complex challenges such as designing autonomous vehicles, discovering new pharmaceuticals, and developing robust infrastructures. These technologies serve as fundamental pillars for propelling the next industrial revolution, aligning with global initiatives such as IoT, Industry 4.0, and Digital Twinning.

The intersections of modelling, data analytics, and AI are deeply rooted in their mathematical and computational frameworks. Regrettably, they are presently studied in isolated silos within engineering and science programs, lacking extensive interdisciplinary collaboration. To maximize their potential as breakthrough, transformative technologies and solutions at the engineering forefront, integration using a holistic systems approach is imperative.

The MadeAI conference endeavors to serve as a platform for accomplished researchers and industry leaders to exchange ideas and unearth new opportunities, thereby fostering research and innovation in the realms of modelling, data analytics, and AI within engineering’s forefront. The conference themes encompass, but are not limited to:

* Foundation and methods underpinning modelling, data analytics and AI
* Modelling, data analytics and AI for aerospace engineering
* Modelling, data analytics and AI for chemical engineering
* Modelling, data analytics and AI for civil engineering and construction
* Modelling, data analytics and AI for geotechnical engineering
* Modelling, data analytics and AI for manufacturing and materials
* Modelling, data analytics and AI for mechanical engineering
* Modelling, data analytics and AI for power and energy
* Modelling, data analytics and AI for transport
* Other relevant topics

Keywords:

1. Presenting Author [↑](#footnote-ref-1)