

Artificial Intelligence in Materials
Science and Engineering

AI MSE 2023

22 - 23 November 2023

Hybrid Conference - Saarbrücken & Online

dgm.de/aimse

WELCOME TO AI MSE 2023

The first conference on Artificial Intelligence in Material Science and Engineering (AI MSE 2023) is an interdisciplinary conference that brings together leading researchers to share their experiences and research results in materials science, materials engineering, and data science. It provides a premier platform for practitioners to discuss the most recent innovations, trends, practical challenges encountered, and solutions adopted in developing and applying Artificial Intelligence for material science and engineering. Organized by the Deutsche Gesellschaft für Materialkunde (DGM), the conference will be held on 22 - 23 November 2023, in the German Research Centre for Artificial Intelligence, in Saarbrücken, Germany. We invite submissions presenting new and original research on all topics of artificial intelligence in material science and engineering, including, but not limited to:

- Microstructures characterization and reconstruction, for example image-based methods.
- Properties/microstructure prediction, for example Machine Learning in atomistic simulations and Machine Learning on continuum simulations.
- Materials Discovery.

We also offer a track with emerging technologies. Here, we invite submissions on technologies from data science that are not yet widely used in material science and engineering but might become important in the future. Examples include:

- Neuro-Symbolic Machine Learning, for example Physics Informed Neural Networks and Neural ODEs.
- Natural Language Processing.

We are looking forward to an inspiring conference in an exciting field, buzzing with activity and progress.



Dr.-Ing. Tim Dahmen

Conference Chair

DFKI - German Research Center for
Artificial Intelligence

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