JOM Call for papers

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Manuscript Deadline: *May 1, 2023*

Machine Learning: Deformation Processes

Machine learning (ML) and artificial intelligence (AI) have become the focus of many research efforts across numerous scientific fields. As a result, there has been a rapid growth in the development and application of exciting new tools, with some beginning to percolate through the materials science and engineering fields. The application of ML and/or AI methods to the development of novel applications in the area of deformation processes will be examined in this topic area. Specific topics of interest include approaches/tools for (1) predicting microstructures that result from deformation pathways, (2) numerical design of thermomechanical processes, and (3) in-process control methods.

Original research papers should be 3,000-9,000 words with up to 12 figures maximum; review papers should be 6,000-11,000 words with up to 20 figures maximum.

Detailed author instructions are available at:
http://www.tms.org/AuthorTools/

Keywords for this topic: Modeling and Simulation; Deformation; Artificial Intelligence; Machine Learning

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If you are interested in submitting a paper, upload your manuscript at
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Please note that all submissions will be subject to peer review. Submission does not guarantee acceptance.