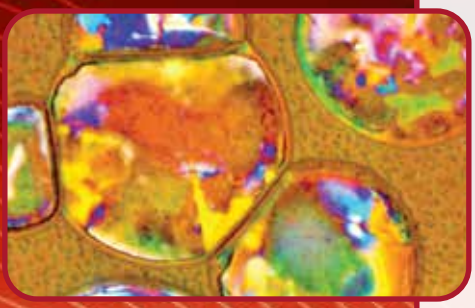
JOM Call for papers

An official publication of The Minerals, Metals & Materials Society



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Manuscript Deadline: *May 1, 2023*

Machine Learning: Additive Manufacturing

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.. This topic covers the use of ML and AI for the advancements of additive manufacturing (AM) processes. Specific topics of interest include approaches/tools for (1) developing new alloys tailored to AM, (2) analyzing/utilizing in-process monitoring data, (3) designing novel processing strategies, (4) predicting component performance, and (5) qualifying components.

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: **Additive Manufacturing; Modeling and Simulation; Machine Learning; Artificial Intelligence**

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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.