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Welcome to Machine Learning: Science and Technology

Developed in close consultation with the community, Machine Learning: Science and Technology (MLST) is a high-quality, fully open access journal that recognises the significant role that machine learning now has in advancing and enabling new discoveries across all areas of science.

Machine learning is rapidly emerging as a powerful tool for enhanced scientific analysis and understanding, with relevance to a diverse range of fields; from novel materials design, quantum physics, and the simulation of molecules and chemical/biological systems, to particle physics, medical imaging, space science, natural disaster prediction and new drug discovery.

MLST has been designed to ensure the widest possible dissemination of published content, by embracing open science principles and responding to the needs of the global research community to accommodate data, code and the use of preprints. Our vision is to create a journal that uniquely brings together applications of machine learning across all areas of science with new conceptual advances in machine learning methods motivated by physical insights.

We’re pleased to announce that as part of the journal launch phase, there will be no open access article publication charge (APC) for any article submitted before 31 Dec 2020 that is then published in the journal. This means that our first authors will get all of the benefits of open access, including maximum visibility, reach and impact, without paying a thing! On behalf of the Editorial Board and IOP Publishing, we hope that you will consider submitting your next article to MLST.

Journal scope

MLST is a multidisciplinary journal that bridges the application of machine learning across the sciences with new conceptual advances in machine learning methods as motivated by physical insights. Specifically, articles are expected to i) make conceptual or methodological advances in machine learning with applications to (or motivated by) scientific problems, or ii) advance the state of the art of machine learning-driven applications in the sciences.

Particular areas of scientific application include (but are not limited to):

- Physics and space science;
- Design and discovery of novel materials and molecules;
- Materials characterisation techniques;
- Simulation of materials, chemical processes and biological systems;
- Atomistic and coarse-grained simulation;
- Quantum computing;
- Biology, medicine and biomedical imaging;
- Geoscience (including natural disaster prediction) and climatology;
- Simulation methods and high-performance computing.

We strongly support the principles of transparency and openness in scientific research. To facilitate reproducibility, authors should, where possible, make available the data, code and research materials supporting the results in the article.

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