Quantum Machine Intelligence

Editor-in-Chief: Giovanni Acampora

Topical Collection

Quantum Techniques in Machine Learning 2021

Guest Editors:

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Important dates:

- **Submission**
  March 31, 2022
- **Notification**
  July 30, 2022

Topical Collection Description:

This topical collection will include extended versions of the best original results on the development of quantum techniques in machine learning presented at the 5th International Conference on Quantum Techniques in Machine Learning, QTML 2021, that was held online on 8-12 November 2021, and organised by Minh Ha Quang (RIKEN Center for Advanced Intelligence Project, Tokyo, Japan).

Submissions of contributions not presented at QTML 2021 are also welcome.

Topics include but are not limited to:

- Quantum algorithms for machine learning tasks
- Quantum state reconstruction from data
- Machine learning for experimental quantum information
- Machine learning for Hamiltonian learning
- Variational quantum algorithms
- Learning and optimization with hybrid quantum-classical methods
- Quantum machine learning applications for industry
- Tensor network methods and quantum-inspired machine learning
- Data encoding and processing in quantum systems
- Quantum software
- Quantum learning theory

Submission Information:

Articles must be submitted through the QUMI Editorial System using the link:
https://www.editorialmanager.com/qumi/default.aspx

When submitting your paper, please select

"SI: QTML 2021: Quantum Techniques in Machine Learning"

as Article Type, so as to make sure that your paper is assigned to the special issue guest editors.

Please see the Instructions for Authors on the journal site (link.springer.com) if you have not yet submitted a paper through this web-based system.