Special Issue

Machine Learning and Materials Informatics

Message from the Guest Editors

Propelled by multiple big data repositories and algorithmic development, machine-learning (ML)- and deep-learning-focused methods are becoming almost indispensable for predicting novel materials and their properties. These methods often rely on the use of already existing datasets to train a computer and map it to new materials or the material property of interest. Earlier prediction endeavors include ML models for the thermodynamic, mechanical and thermal properties of materials. Today high dimensional data from sophisticated atomic-scale resolution instruments are being used to train, test, and predict the shape and important characteristic features of nanomaterials. We are looking forward to compiling a comprehensive set of publications aiming to highlight the latest findings in material science using ML algorithms. We welcome original research involving material discovery, structure–property prediction, material characterization and software development. We invite contributions involving the development, characterization and simulation studies of nanomaterials, biomaterials, and electronic materials along with novel techniques in data preprocessing and feature selection.

Guest Editors

Prof. Dr. Yuqing Lin

Dr. Shruba Gangopadhyay

Dr. Aniruddha Dutta

Deadline for manuscript submissions

closed (31 August 2020)

Data

an Open Access Journal by MDPI

Impact Factor 2.0
CiteScore 5.0

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Data
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
data@mdpi.com

mdpi.com/journal/data

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Message from the Editor-in-Chief

Data is an open access journal that publishes scientific data in a reliable, citable, and accountable manner. Data grants the opportunity to formally share valuable data, for academic credit. It covers a wide range of disciplines in which data is generated so that published data is discoverable and available for wider re-use. The journal has highly accomplished scientists from a variety of disciplines on the editorial board. The publication emphasizes clarity, honesty, quality, and novelty and has a rigorous peer-review process. We strongly encourage you to share your data vision in Data.

Editor-in-Chief

Prof. Dr. Jamal Jokar Arsanjani
Geoinformatics and Earth Observation Research Group, Department of Planning, Aalborg University Copenhagen, A.C. Meyers Vænge 15, DK-2450 Copenhagen, Denmark

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