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Computation

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Message from the Editors-in- Chief

You are invited to submit the results of your research for consideration and publication in *Computation*, an international open access journal, which is published monthly online by MDPI. The editorial board and staff of *Computation* are dedicated to establishing a benchmark journal for the world scientific and engineering communities for original research articles, reviews, conference proceedings (i.e., peer reviewed full articles), and communications, in the cutting-edge areas of computational biology, computational chemistry, and computation in engineering.

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Aims

Computation (ISSN 2079-3197), a journal of computational science and engineering. It publishes reviews, regular research papers, and communications, and there is no restriction on the maximum length of the papers. Our aim is to encourage scientists to publish their experimental and theoretical research in as much detail as possible. Full experimental and/or methodical details must be provided for research articles. There are, in addition, unique features of this journal:

- manuscripts regarding research proposals and research ideas will be particularly welcomed
- computed data or files regarding the full details of the experimental procedure, if unable to be published in a normal way, can be deposited as supplementary material
- manuscripts concerning summaries and surveys on research cooperation and projects (that are funded by national governments or others) provide information for a broad field of users.

Scope

computational biology, including, but not limited to:

- bioinformatics
- mathematical modeling, simulation and prediction of nucleic acid (DNA/RNA) and protein sequences, structure and functions
- mathematical modeling of pathways and genetic interactions
- neuroscience computation including neural modeling, brain theory and neural networks

computational chemistry, including, but not limited to:

- new theories and methodology including their applications in molecular dynamics
- computation of electronic structure
- density functional theory
- designing and characterization of materials with computation method

computation in engineering, including, but not limited to:

- new theories, methodology and the application of computational fluid dynamics (CFD)
- optimisation techniques and/ or application of optimisation to multidisciplinary systems
- system identification and reduced order modelling of engineering systems
- parallel algorithms and high performance computing in engineering

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