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Aims and Scope

Computational Mathematics and Computer Modeling with Applications is an international journal published by Shahid Beheshti University, Tehran, Iran, free of page charges. The purpose of the journal is to provide a forum for the publication of high quality research and tutorial papers in modelling, applied and computational mathematics.

The following are the principal areas of interest of the journal:

- Tensor computations and applications
- Numerical linear algebra
- Application of methods of numerical linear algebra in science, engineering and economics
- Machine learning
- Numerical optimization
- Computational statistics
- Control systems
- Iterative methods for nonlinear equations
- Fast numerical algorithms
- Parallel computations
- Numerical solutions of PDEs
- Theory and computations of non-local modelling and fractional partial differential equations
- Imaging algorithms, deep neural network configurations and vision restorations
- Stochastic partial differential equations
- Computational finance and applications
- Computational medicine, biomedicine and epidemiology
- Inverse problems and data analysis
- Modeling using PDEs
- Analysis of mathematical models, formulated in terms of PDEs
- Discretization methods and numerical analysis for PDEs
- Verification and validation
- Interpolation and approximation
- Integral equations

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After the **Director-in-Charge** approves that a submitted paper meets the aims and scope of the journal, it will be sent to one or two experts, advised by the **Editorial Board**, to review it. The refereeing should be completed in three months, unless the paper is longer than 15 pages.

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