

MCD Author and Reviewer Guidelines

The Mathematics and Computation Division (MCD) is interested in the mathematical and computational aspects of all of the ANS division work areas. The following are considered guidelines for acceptable MCD papers and are intended to augment the general ANS acceptance guidelines.

- The paper should describe original work that is of interest to the ANS MCD membership:
 - mathematical theory
 - computational methods
 - numerical analysis
 - new understanding of existing methods/algorithms
 - new benchmark comparisons
 - methods, algorithms, or performance on new computer architectures
- The paper should clearly describe the new aspects of the work in relation to the literature.
- An acceptable paper should reflect the contents and scope of the work and provide sufficient purpose, background description, and results to be understandable, informative, and reproducible.
- Except for new mathematical analysis and analytical solutions, numerical results are mandatory. Where possible, comparisons of accuracy, efficiency, and stability should be made to currently used methods.
- The authors should make sound conclusions based on the new work.
- Some special consideration may be given to papers that are part of a special session organized around a common theme. For example, it may be acceptable to omit background information common to all the papers in the session.