

Guidelines and Acceptance Criteria for Papers M&C Division

As our name implies, our division is interested in both the mathematical and computational aspects of all of the ANS division work areas. The following are considered guidelines for acceptable contributed M&C Division papers and are intended to augment the general ANS acceptance guidelines. All papers should include:

- ❖ New and original work of interest to the ANS MCD membership including:
 - A new mathematical theory or computational method; or
 - A new understanding of existing methods such as algorithm approximations, new mathematical or computational benchmark comparisons, or
 - comparisons of results on new computer architectures.
- ❖ The relationship of the new work to existing pertinent literature should be well defined.
- ❖ The new aspects of the work should be clearly described (e.g., so that any algorithm involved can be understood).
- ❖ Except for new mathematical proofs and analytical solutions, numerical results ARE REQUIRED. Where possible, comparisons for accuracy and computational efficiency should be made with related methods that are currently in widespread use;
- ❖ Sound conclusions based on the new work should be made.
- ❖ An acceptable paper should reflect the contents and scope of the work and provide sufficient purpose, background description, and results to be understandable and informative.

Some special consideration should generally be given to papers that are part of a special session, organized around a common theme. The papers are related and share many common themes. Omission or cursory treatment of some areas (e.g., background information) may be acceptable when the paper is considered in context with the other papers in the session.