

International Conference of Computational Methods in Sciences and Engineering 2009 (ICCMSE 2009)

ICCMSE 2009: Call for Papers

New Frontiers in Modeling and Simulation of Composite and Metallic Field Machining

Computational methods and simulations are essential integral aspects of machining and material removal research. Relatively new numerical models using a series of emerging and traditional concepts (Natural Mode Method, Dynamic Molecular Approach, Explicit Finite Elements Method, etc.) have been developed in the past few years. The use of these powerful tools to investigate critical mechanistic features of machining processes, including the developmental aspects of new tool geometries is a trend that seems to be spreading. While each numerical technique seems to be applicable to a particular field of machining, combining expedient computer implementations is becoming easier. This should enable the definition of some universal numerical tools for understanding chip formation process and optimization of machining performance.

This ICCMSE 2009 symposium will serve as an exhibit for state of the art, and futuristic, trends in computer aided research in the field of machining. Further it aims to establish a dialogue between practitioners, engineers, experimentalists and computational scientists working in the field. Topics of interest include – but are not limited to:

- Simulation of the material removal processes;
- Meshless methods use in simulation of cutting;
- MDS-methods use in micro-nano machining;
- Numerical prediction and simulation of thermal field evolution in machining;
- Simulation of cutting tool wear and its effects on the quality of the resulting surfaces;
- Experimental verification of numerically predicted results (especially the thermal aspects of material removal);
- Simulation of composite material machining.

Selected papers will be published as a special issue of peer reviewed journals following the symposium.

DEADLINE:

Initial proposed contributions, not to exceed eight pages are due by Monday 1th of August 2009. Accepted papers are due in final form by September 1th 2009.

Acceptance of papers implies that at least one of the authors will register and attend **ICCMSE 2009**, and will personally present the paper.

SUBMISSIONS INSTRUCTIONS:

Email submissions in PDF format to:

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