IEEE INTERNATIONAL CONFERENCE ON INDUSTRIAL INFORMATICS INDIN'16

18-21 JULY 2016, FUTUROSCOPE-POITIERS, FRANCE

Special Session on

"Applied Modelling, Numerical Simulation, Computation and Optimization"

Organized by

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Call for Papers

With the advancement of computer hardware providing more powerful computing environments, system modeling, numerical simulation and optimization researchers have been able to challenge solving larger and more complex problems. Driven by such motivation, the innovative methodologies of system modeling, numerical simulation and optimization technologies are proposed not only in area of engineering but also in new paradigms in computer science. This special issue includes the mathematical and physical theories of the nonlinear dynamics analysis, computation and optimization in physical, engineering, biological studies, and their various applications. Prospective authors are invited to submit original papers to this Special issue.

Topics of interest include, but are not limited to:

A list of 5-10 special areas
- Mechanical and Electrical System Modeling

- Numerical Simulation, Computation and Nonlinear Analysis for Real World System.

A goodqualitypapermay be consideredforpublication in IEEE Transactionson Industrial Informaticssubject to furtherrounds of review

- Optimization Schemes and Control Systems

- Embedded systems

- Wireless sensor networks, Wireless communication

- Chaotic Systems

- Other System Simulation and Applications