CONFERENCE TOPICS:

- Application of new computational techniques to modelling and control
- Numerical simulations of casting, semi-solid forming, thixoforming, metal forming and heat treatment
- Numerical simulations of heat transfer, microstructure evolution, phase transformations, diffusion and prediction of products properties
- Rheological models, application of the inverse analysis to identification of models parameters
- Multiscale material models, based on cellular automata, molecular dynamic, Monte Carlo, etc.
- Boundary conditions in modelling of processes in materials engineering
- Computer aided design of tools and technology in materials processing, new energy-saving and environment-protecting technologies
- Applications of artificial intelligence and optimization techniques in materials science
- Databases and knowledge bases in materials engineering
- Digital materials and virtual processes
- Development of computer systems for metallurgical and materials industry

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