

## Special Issue

# Model Predictive Control in Sensing and Robotic- Methods and Applications

### Message from the Guest Editors

Model predictive control is an effective approach to control nonlinear constrained dynamic systems. Due to the remarkable online optimization capability, in the past decades, model predictive control has rapidly developed in both mathematical theory and industrial application. Nowadays, it is believed that advanced model predictive control approaches are also promising to play a pivotal role in sensing, robotics, mechatronics and other related industrial scenarios. Topic Included

- Nonlinear predictive control of hybrid systems;
- Multimodal nonlinear predictive control;
- Fuzzy and neural network predictive control;
- Adaptative predictive control;
- Predictive control for fast dynamics;
- Optimization algorithms for model predictive control;
- Heuristic optimization for model predictive control;
- Real industrial applications;
- Real-time model predictive implementation;
- Model predictive control for NCSs under cyberattacks;
- Machine learning and artificial intelligence for model predictive control.

### Guest Editors

Dr. Chuxiong Hu

Dr. Ze Wang

Dr. Mingxing Yuan

Prof. Dr. Zheng Chen

### Deadline for manuscript submissions

closed (30 June 2023)



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### Message from the Editor-in-Chief

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### Editor-in-Chief

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