



sensors



an Open Access Journal by MDPI

Model Predictive Control in Sensing and Robotic- Methods and Applications

Guest Editors:

Dr. Chuxiong Hu

Dr. Ze Wang

Dr. Mingxing Yuan

Prof. Dr. Zheng Chen

Deadline for manuscript
submissions:

closed (30 June 2023)

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



mdpi.com/si/124626

Special Issue



sensors

Indexed in:
PubMed

CITESCORE
6.8

IMPACT
FACTOR
3.9

an Open Access
Journal by MDPI

Editor-in-Chief

Prof. Dr. Vittorio M. N. Passaro

Dipartimento di Ingegneria
Elettrica e dell'Informazione
(Department of Electrical and
Information Engineering),
Politecnico di Bari, Via Edoardo
Orabona n. 4, 70125 Bari, Italy

Author Benefits

Open Access : free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE \(Web of Science\)](#), [PubMed](#), [MEDLINE](#), [PMC](#), [Ei Compendex](#), [Inspec](#), [Astrophysics Data System](#), and [other databases](#).

Journal Rank: JCR - Q2 (*Instruments & Instrumentation*) / CiteScore - Q1 (*Instrumentation*)

Message from the Editor-in-Chief

Sensors is a leading journal devoted to fast publication of the latest achievements of technological developments and scientific research in the huge area of physical, chemical and biochemical sensors, including remote sensing and sensor networks. Both experimental and theoretical papers are published, including all aspects of sensor design, technology, proof of concept and application. *Sensors* organizes Special Issues devoted to specific sensing areas and applications each year.

Contact Us

Sensors Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sensors
sensors@mdpi.com
[X@Sensors_MDPI](#)