

Special Issue

Human–AI Hybrid Models Towards Cognitive Manufacturing and Service Systems

Message from the Guest Editors

Nowadays, the rapid advancements and widespread implementations of artificial intelligence (AI), digital twins (DTs), robotics, and human–machine interaction (HMI) have brought about remarkable transformations in the manufacturing and service industries. This Special Issue invites contributions that explore innovative human–AI hybrid models, methodologies, frameworks, applications, and reviews to advance cognitive manufacturing and service systems. Research topics may include (but are not limited to) the following:

- Frameworks for human–AI collaboration;
- Cognitive models in hybrid intelligent systems;
- Trustworthy and interpretable methods for manufacturing and service systems;
- Human-centric systems design;
- Innovative design of HMI;
- Human factor engineering and ergonomics studies;
- Human-robot collaboration;
- Human-AI-assisted DT applications;
- Cognitive DTs and human DTs;
- Human-in-the-loop service design;
- User experience studies;
- AI-driven decision-making;
- Case studies in manufacturing and service systems.

Guest Editors

Dr. Bufan Liu

Dr. Kendrik Yan Hong Lim

Dr. Ziqing Xia

Dr. Meng-Hsueh Hsieh

Deadline for manuscript submissions

31 August 2025



Electronics

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Electronics
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
electronics@mdpi.com

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About the Journal

Message from the Editor-in-Chief

Electronics is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

Editor-in-Chief

Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di
Torino, 10129 Torino, Italy

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