Special Issue

Autonomous Agents and Multi-Agent Systems Applied in Healthcare

Message from the Guest Editors

Intelligent agent-based systems are one of the most exciting research areas in artificial intelligence, which have proven to be a key component for the digitalization of healthcare. Specific topics like ageing, active living, chronic diseases, or others related to quality of life play an increasingly important role in this research field. This Special Issue calls for research discussing applications of intelligent agents in healthcare scenarios. The topics of interest include but are not limited to:

- Agent-based methods for medical image segmentation or classification;
- Agent-based decision support systems for disease diagnosis;
- Agent-based medical data processing, such as EMR management and exchange, healthcare data streams from Internet of Things, HIS interoperability and integration;
- Mobile agents in hospital environments;
- Patient empowerment and chronic disease self-management through personalized agent-based systems and models;
- Intelligent agents that provide autonomous and remote care delivery;
- Clinical agent-based decision support systems, including recommender systems;
- Conversational agents and personal digital assistants for patient empowerment.

Guest Editors

Dr. Sara Montagna

Prof. Dr. Michael Ignaz Schumacher

Dr. Stefano Mariani

Dr. Eloisa Vargiu

Dr. Davide Calvaresi

Deadline for manuscript submissions

closed (15 December 2021)

Electronics

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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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.8 days after submission; acceptance to publication is undertaken in 2.4 days (median values for papers published in this journal in the first half of 2025).