

Call for Papers

Journal of Universal Computer Science (J.UCS) Special Issue

Hybrid-Augmented Intelligent Systems: New Trends and Applications

Background and Motivation:

Recent advances in Artificial Intelligence (AI) research, technology and applications are leading to new products and processes causing a profound effect on our society, businesses, education system, and so on. Our methods of working, conducting business, studying, etc. are changing. These developments are altering almost every area of our existence. The goal of traditional artificial intelligence (AI) is to make robots understand and behave like people; however, due to the lack of transparency and legal protection, we believe that AI will not be able to fully replace people in many occupations. Because of this, integrating human cognitive abilities into AI systems has become more important, leading to the development of hybrid-augmented intelligence (HAI), primarily based on two fundamental models: augmented intelligence with human-computer collaboration and human-in-the-loop augmented intelligence. Then, hybrid-augmented intelligence is put forward as a continuation of AI advancements, empowering people to solve problems and make decisions. Eureka AIDA is an AI research network on AI and Analytics with 25 partners and more than 400 researchers across several continents. The main research proposal aims to implement social and virtual spaces for training, capacity building, consulting, and R&D in Hybrid-Augmented Intelligent Systems.

By combining intelligent human capabilities with computer capabilities, the results of this special issue on HAI will advance the state of the art in developing and leveraging human-computer interaction based on HAI. This will help researchers and practitioners integrate HAI-based systems into their work

Focus and Topic:

Starting from this basis of researchers and this novel topic; the current special issue aims to report the newest developments of Hybrid-Augmented intelligence w.r.t. methodologies and applications.

Topics of interest include, but not limited to are:

- HAI methodologies
- HAI on Industry 4.0
- HAI on Analytics
- HAI for managing industrial complexities and risks
- HAI for decision-making
- HAI for online learning
- HAI for Medical and Healthcare
- HAI for cybersecurity
- HAI on Robotics
- Etc.

Deadlines

Submission Deadline:	30 January 2024
Notification of First Round Decision:	29 April 2024
Revised Paper Submission Deadline:	4 June 2024
Notification of Final Decision:	15 September 2024
Final Paper Submission Deadline:	1 November 2024
Anticipated Publication Date:	1 December 2024

Submissions

All manuscripts must be submitted in PDF format, written in English with no direct or indirect reference to authors, and should not exceed 20 pages. Papers should be prepared according to the JUCS's guidelines for authors, guidelines are available at:

http://www.jucs.org/ujs/jucs/info/submissions/style_guide.html

Additionally, manuscripts must be submitted online to be included in the review process. Illustrations and tables must be provided as integrated parts of the manuscript. The submission system is available at:

<https://eventos.ujaen.es/104105/upload/hybrid-augmented-intelligent-systems-new-trends-and-applications.html>

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