

IEEE Systems, Man, and Cybernetics Magazine

Special Issue Proposal

1. Title: Advance in cooperative design, visualization, engineering, and other cooperative applications

2. Rationale and motivation:

Due to the emerging technologies, we can see a very strong demand in supporting the interactions and cooperation in our three worlds: the physical world, the virtual world and the social world of the human community. The field of technological support to the cooperation within these three worlds has never been so active due to the high-speed internet, availability of massive volume of storage and the advance of AI etc. Many applications by nature are cooperative such as web applications, social media, big data, block chain, crowd sourcing, internet of things (IOT), nano-networks etc.

This special issue will focus on the technical advance of the support to the cooperative and interaction in these three worlds with the emphasis in the application areas such as design, visualization, engineering and other disciplines.

3. Target community.

Experts, researchers, graduate students, developers and practitioners in the cooperative design, visualization, engineering and other cooperative application areas.

4. Venues of solicitation.

The call is worldwide.

5. A list of potential contributors.

Paper authors of the conference CDVE2025: The 22nd International Conference on Cooperative Design, Visualization and Engineering (www.cdve.org). The contributors also include other researchers with convincing research results in these areas.

6. Brief bio-sketches of the Corresponding Guest Editor (CGE) and Guest Editors (GE).

Corresponding Guest Editor:

Yuhua Luo is the founding chair of the International Conference on Cooperative Design, Visualization and Engineering. She has worked as a full professor in the Mathematics and Computer Science Department at the University of Balearic Islands, Spain for over twenty years. She has been the main proposer, project leader and proposal evaluator of many European and Spanish national R & D projects. She has cooperated with many well-known

industrial companies and universities in Europe and China. In addition to publishing numerous research papers, she has published 21 volumes of Lecture Notes of Computer Science (LNCS) by Springer as a sole editor. Yuhua Luo is a senior life member of the IEEE, IEEE SMC society and Computer Society. She is also one of the co-chairs of the IEEE SMC Visual Analytics and Communication Technical Committee.

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Guest Editor

Sebastia Galmes is an associate professor in the Department of Mathematics and Computer Science at the University of Balearic Islands.

His research interests focus on the areas of wireless communication protocols, wireless sensor networks and, more recently, molecular communications for nanonetworks. He has published numerous papers, including highly ranked conferences and journals. He has also participated in over 20 funded national and international projects. He is a member of IEEE ComSoc and IFIP WG 6.3 on Performance of Communication Networks. He is an area editor of the Simulation Modelling Practice and Theory Journal.

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Affiliation of the guest editors: both guest editors are from the Department of Mathematics and Computer Science
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7. A proposed timeline of key milestones for the special issue.

May 2025: Call for papers of the special issue

October 19-22, 2025: CDVE2025 conference, List of accepted papers ready

January 31, 2026: submission deadline for the papers

March 31, 2026: Evaluation and review of papers finished

May 1, 2026: final paper due for accepted papers

May 31, 2026: draft of the special issue sent to the magazine

8. References:

[1] <https://www.cdve.org/>

[2] Yuhua Luo (ed): Cooperative Design, Visualization, and Engineering, 21st International Conference, CDVE 2024, Valencia, Spain, September 15–18, 2024, Proceedings, LNCS Springer Nature Conference proceedings, ISBN 978-3-031-71314-9.

[3] Yuhua Luo (ed): Cooperative Design, Visualization, and Engineering, 20th International Conference on Cooperative Design, Visualization and Engineering, CDVE 2023, Mallorca, Spain, October 1–4, 2023, LNCS Springer Nature Conference Proceedings ISBN 978-3-031-43814-1.