



Recent Advances in Extended Reality

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Deadline for manuscript
submissions:

closed (30 April 2024)

Message from the Guest Editors

Recent technical advances and research in extended reality (XR), which broadly includes virtual, augmented, and mixed reality (VR, AR, and MR, respectively), enable us to extend our experience and abilities in various contexts. For example, VR users naturally and intuitively interact with remote users in immersive social virtual environments using their embodied avatars; AR users extend their sensory perception and knowledge through additional sensing devices equipped with AR displays; and in situ intelligent virtual entities are augmented into the real world.

We are pleased to invite diverse research that covers different disciplines and perspectives, including, but not restricted to, the following topics:

- New XR frameworks and platforms;
- Sensing and tracking for XR;
- Usability and user experience (UX) studies;
- Human factors and ergonomics in XR;
- Perception and cognition in XR;
- Virtual avatars and agents;
- Human–robot interaction with XR;
- Remote collaboration and learning in XR;
- Context-aware XR systems;
- IoT and 5G for XR;
- Industrial and occupational XR applications





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Message from the Editor-in-Chief

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