



Virtual reality and the Internet of Things are two of the most important technologies to arise in the past decade or more. Taken individually, each technology represents a real sea change. VR has the potential to truly change the world in some surprising ways, while the Internet of Things already has transformed the way we live our lives. Digital Twins is the confluence of these two developments, though, that offers the most promise and opportunity of all.

VR applications promise to be the next mainstream business. They are used by companies in a wide range of industries, from product design to healthcare and employee training. At the same time, IoT platform and related devices are much in demand in today's tech and business world. These smart devices connected to the internet are capable of collecting, interpreting and relaying data without human intervention or supervision.

The confluence of IoT with augmented and virtual reality is nothing less than a revolution. It aims at merging the physical and digital world, not in a way where we can just see things, but one where we can give digital objects physical characteristics. This means the actual grounding of digital objects into physical environments and interacting with them in the same way we interact with physical objects. Since IoT is creating new ways of interacting with our environment, it lays down a multitude of advantages for enterprises to completely transform their business methods and their revenue models. So, the combination of virtual reality and IoT will lead to increased productivity, accuracy and security.

This special session aims to bring the latest results over Virtual Reality and IoT techniques for various applications. It can help technicians to exchange the latest technical progresses.

Topics of interest for this Special Issue include, but are not limited to the following:

- Digital Twins, Virtual Reality, IoT
- Novel Virtual Reality Devices for Healthcare
- Virtual Reality for IoT
- Health Data Visualization by Virtual Reality
- Novel IoT Devices for Virtual Reality
- Cognitive Imaging and Processing
- Secure Transmission of Digital Twins
- Digital Twins for Business Automation
- Security and Privacy of Virtual Reality
- Virtual Reality and IoT Applications, such as Healthcare, Smart City, and Immersive Video

Submission Procedure:

Submissions should follow IEEE standard template available at <https://template-selector.ieee.org/>. The submissions which have been previously published at a conference need to have at least 50% new material and should be mentioned in the cover letter. ScholarOne Manuscripts URL for submitting the manuscripts is the following: <http://mc.manuscriptcentral.com/cemag>. The authors need to select "Special Section: VR-with-IoT" in Step-1 of submission to ensure that the article is considered for this Special Section. NOTE: Articles exceeding 6 pages (including text, tables, and figures) during author proof will be charged at US\$ 250 per page for extra pages beyond the first allowed 6 pages. For any questions, please contact the Editor-in-Chief at herencsn@ieee.org.

IMPORTANT DATES:

- **ARTICLE SUBMISSION DUE:**
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