

Special Issue

Advances in Augmented and Mixed Reality: Tools and Applications

Message from the Guest Editors

Augmented reality (AR) and mixed reality (MR) are technologies that have been around for quite some time now. Although the maturity of these technologies has reached a high level, technological advancements have allowed one to constantly uncover the new, unexploited potential of AR and MR in a variety of application fields (such as the healthcare system, the manufacturing industry, cultural heritage fruition, and the entertainment industry), each with its own specific requirements. Starting from these considerations, this Special Issue intends to collect and readily make available to the readers the most recent advancements in the multidisciplinary approach to research in the AR and MR fields. While the major focus of this Special Issue is the innovative use of instrumental solutions and measurement principles for enhancing the accuracy and robustness of AR and MR systems, this Special Issue will also welcome papers reporting cutting-edge results on different aspects related to AR or MR, thus reflecting the multi-faceted research approach inherent to such systems.

Guest Editors

Dr. Egidio De Benedetto

Department of Engineering for Innovation – University of Salento
Complesso Ecotekne—Edificio Corpo O, via Monteroni, 73100 Lecce LE,
Italy

Dr. Annarita Tedesco

Department of Public Health, University of Napoli Federico II, Naples,
Italy

Deadline for manuscript submissions

closed (30 April 2020)



Instruments

an Open Access Journal
by MDPI

CiteScore 3.3
Tracked for Impact Factor



mdpi.com/si/25231

Instruments
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
instruments@mdpi.com

[mdpi.com/journal/
instruments](https://mdpi.com/journal/instruments)





Instruments

an Open Access Journal
by MDPI

CiteScore 3.3
Tracked for Impact Factor



[mdpi.com/journal/
instruments](https://mdpi.com/journal/instruments)



About the Journal

Message from the Editor-in-Chief

The realization of dedicated instrumentation has always been a collateral aspect of experimental research. In addition, many groups dedicate efforts and resources solely to the development of new devices, sensors, equipment and large infrastructure, theoretical and numerical studies, and novel experimental methodologies. With *Instruments* we wish to address both established and emerging communities, also to favor the creation of innovative trans-disciplinary approaches. We see *Instruments* as an exciting high-impact journal that will soon hold a leading position in disseminating cutting edge scientific and technological research.

Editor-in-Chief

Prof. Dr. Antonio Ereditato

Enrico Fermi Institute, The University of Chicago, Chicago, IL 60637,
USA

Author Benefits

High Visibility:

indexed within ESCI (Web of Science), Scopus, Inspec, CAPIus / SciFinder, INSPIRE, and other databases.

Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 22.8 days after submission; acceptance to publication is undertaken in 3.9 days (median values for papers published in this journal in the second half of 2025).

Recognition of Reviewers:

reviewers who provide timely, thorough peer-review reports receive vouchers entitling them to a discount on the APC of their next publication in any MDPI journal, in appreciation of the work done.