REAACH-ID (Representation for Enhancement and management through Augmented reality and Artificial intelligence: Cultural Heritage and Innovative Design) SYMPOSIUM
October 12 - 13, 2021 - Online Symposium

Augmented Reality (AR) is an alternative path of analysis and communication if applied to several fields of research, in particular if related to space and artifacts in it. This happens because the neural network development strengthens the relationship between augmented reality and artificial intelligence (AI), creating processes close to human thought in shorter times. In the last years, the AR/AI expansion and the future scenarios have raised a deep trans-disciplinary speculation. The disciplines of Representation (Drawing, Surveying, Visual Communication), as a convergence place of multidisciplinary theoretical and applicative studies related to architecture, city, environment, tangible and intangible Cultural Heritage, must contribute to the international debate. This Symposium deals with augmented reality and artificial intelligence, analyzing their connections as research tools for knowing the environment. In particular, its topics focus on the intersection between real and virtual world and on the heuristic role of Drawing in the enhancement and management of Cultural Heritage, in planning and monitoring the architecture, the environment, or the infrastructures. Scientists involved in AR and AI research applied separately or together in the field of Cultural Heritage, Architectural Design, Urban Planning, and Infrastructures Analysis are invited to contribute to the future international discussion focusing on the priorities and aims of the researches related to the disciplines of Representation.

Topics

AI/AR for space recognition and valorization

Features recognition, Image Segmentation, Databases, Marker/Markerless Tracking, Interaction, Immersion.

AI/AR for design, monitoring, and management

Point clouds, Semantics and ontologies, Element classification, Hierarchical structures, Sensors, Archiving.

Promoting Committee:

Andrea Giordano (University of Padua)

Michele Russo (Sapienza University of Rome)

Roberta Spallone (Politecnico di Torino)

Registration and participation

To join the Symposium the author/authors have to email (reaach.id@gmail.com, deadline **31th, July 2021**) an **abstract** in their native language composed by **500 words**, one image, and a short reference list (max 5 references). It is recommended to focus each paper on the relationships between Representation, AI, and AR, to support the definition of an international research framework. After the abstract peer review, some proposals will be selected for oral or video presentations. At least one author for each accepted abstract will have to pay the fee of the Symposium (**70 euros**) to present their research to the public. Other authors and attendees can participate free of charge.The authors who will present their paper will be also invited to write an extended essay, developing the contents exposed. After a second peer review acceptance, the final work will be published as a book chapter in an open-access volume characterized by ISBN.

Important dates

31/07/2021 - Deadline for abstract submission

10/09/2021 - Abstract acceptance deadline for oral or video communication

25/09/2021 - Payment deadline for oral or video contribution

25/09/2021 - Deadline for online registration for all participants (presenters, other authors, auditors)

12-13/10/2021 - REAACH-ID Symposium online

15/11/2021 - Invitation to submit an extended paper, following the Scientific Committee suggestions

15/02/2022 - Deadline for submission of an extended paper

For further information

https://reaachid.wixsite.com/2021

or write to reaach.id@gmail.com