

▯ INDUX-R Highlights: Innovation in XR, AI and Industry

INDUX-R at the IEEE ICIR 2026!



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At the IEEE ICIR 2026 conference, CERTH presented their work entitled **“Real-Time Multimodal Manipulation of 3D Head Avatars from Consumer Sensors”**. In this work a new system is described that creates and animates realistic 3D head avatars using consumer devices.

To create a personalized avatar, the system only needs a short video captured with a standard camera (e.g., a mobile phone), eliminating the need for expensive studio equipment or complex camera setups.

Once the avatar is created, it can be animated in real time on a computer, driven either by speaking into a microphone or by moving/speaking in front of a webcam.

This technology was recently put to work within the INDUX-R project to make poster sessions in the VR application more interactive. During a poster session, the service converts written text from the posters into speech, which then drive the personalized 3D avatars to deliver spoken summaries to users. This demonstration highlights how the technology can make information more engaging and accessible, supporting the project's broader goals.

Learn more: <https://indux-r.eu/>

INDUX-R at AWE USA 2026!



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At Augmented World Expo in Long Beach, California, **C-REAL** showcased its groundbreaking light-field display technology, delivering a more natural visual experience for immersive mixed reality.

Learn more: <https://indux-r.eu/>

Unlike conventional XR displays, CREAL's light-field technology enables natural depth perception, allowing digital content to become a seamless part of the real world and to be viewed comfortably at arm's reach. Within **INDUX-R**, CREAL's technology is being further advanced for industrial and medical applications, supporting Use Case 2 – X-ray Vision for Industry 4.0 and Use Case 3 – Virtual Medical Training.

Use Case 2 – X-ray Vision for Industry 4.0: Enables workers to visualize hidden components and processes, improving maintenance, inspection, and operational efficiency through intuitive XR guidance.

Use Case 3 – Virtual Medical Training: Provides an immersive, multi-user virtual operating room where medical professionals can safely practice, collaborate, and refine surgical skills in realistic scenarios. Shaping the future of immersive XR—where innovation meets real-world impact.

About INDUX-R

INDUX-R (Transforming European INDUstrial Ecosystems through eXtended Reality enhanced by human-centric AI and secure, 5G-enabled IoT) is a Horizon Europe-funded initiative involving partners from across Europe. Its mission is to redefine how people interact, train, and collaborate in professional environments through cutting-edge XR applications rooted in ethical development.

Read more on INDUX-R website <https://indux-r.eu/>

INDUX-R PROJECT VIDEO



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INDUX-R

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enhanced with **human-centric** AI and secure, **5G-enabled IoT**

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INDUX-R

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