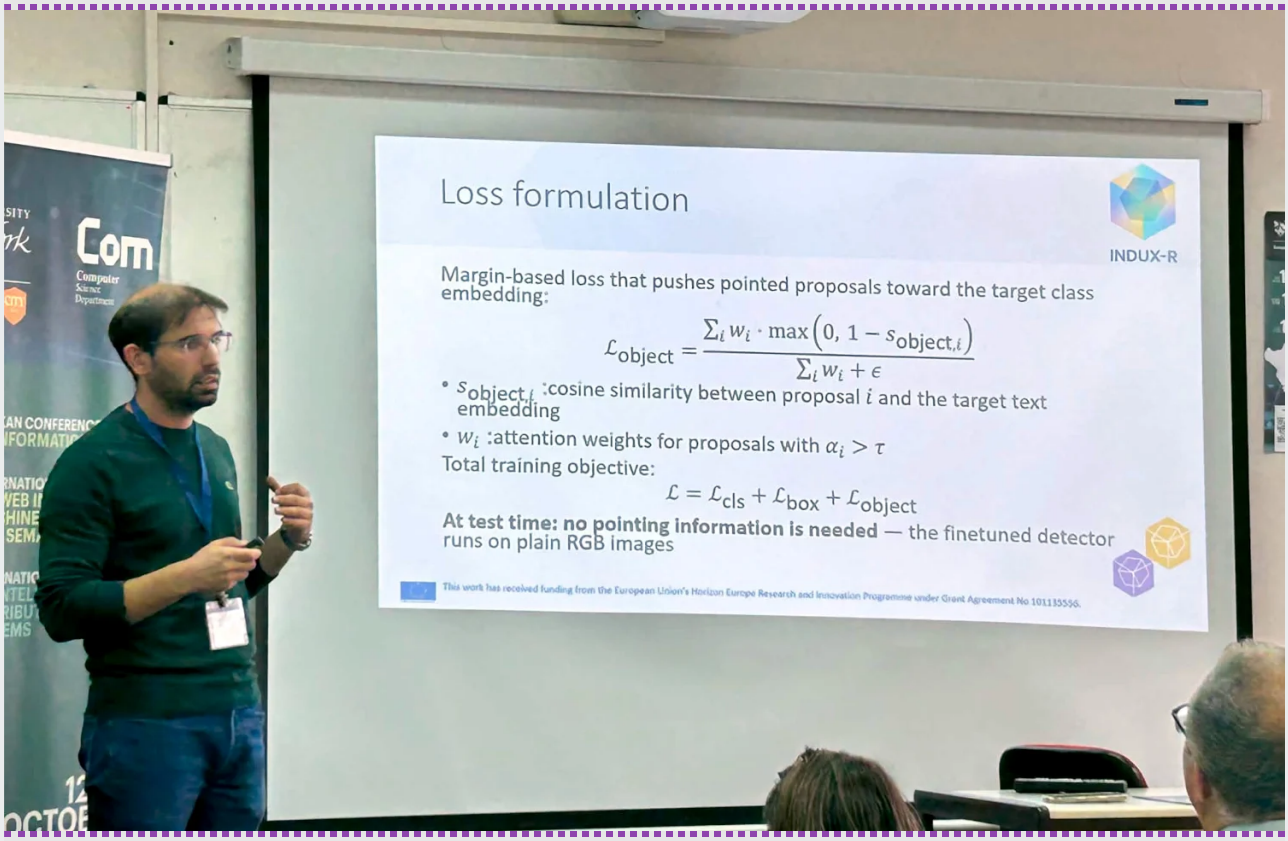
INDUX-R PROJECT PRESENCE AT CONFERENCES ACROSS EUROPE



At BCI 2026 (12th Balkan Conference on Informatics) in Thessaloniki, Iason Karakostas from CERTH presented the work: **"Pointing-attention guidance for improved few-shot object detection".**

Vision-Language Models (VLMs) like CLIP excel at open-vocabulary tasks but treat entire images uniformly, often struggling to localize objects when training data is scarce.

Drawing inspiration from how humans use spatial context, the work integrates spatial priors, such as pointing cues encoded as Gaussian heatmaps, directly into the training objective of region-based VLM detectors.

Pointing guidance is strictly applied during training; the fine-tuned detector operates on standard RGB images at test time without requiring human cues.

Evaluated on a challenging few-shot setup, the method delivered a +4.34 AP overall gain and a notable ~+10 point increase at AP75, significantly sharpening bounding box accuracy in cluttered environments.



Oliver A Kannape from HUG – Hopitaux Universitaires de Genève presented at **IVRHA** (International Virtual Reality and Healthcare Association) **Europe 2026** recent work on AI-driven virtual patients, exploring how they can give students more opportunities to practise patient conversations in a controlled and reliable environment.

The presentation highlighted the importance of reliable AI-supported educational content, with careful attention to model behaviour, system design, and the accuracy and relevance of clinical material co-developed with physicians and educators. **A similar approach is being adopted for the surgical assistant developed as part of INDUX-R Use Case 3.**

Another step towards advancing immersive technologies and AI for healthcare education!



HUG – Hopitaux Universitaires de Genève and Oliver A Kannape presented "Rear Window: A Hospital's Perspective on XR" at VR Summit 2026 in Bochum, exploring Extended Reality (XR) from the hospital's perspective.

The presentation focused on the role of XR in healthcare and the challenges of translating research into clinical practice, including practical, regulatory, and reimbursement hurdles.

Sharing these insights with the XR community is part of the dissemination activities, **aimed at the lasting impact of INDUX-R beyond the project timeline:** bringing the project's results to the professionals and institutions that will carry them forward.

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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