12TH INTERNATIONAL CONFERENCE ON
SMART & SUSTAINABLE TECHNOLOGIES

SPLIT - BOL, CROATIA / JUNE 14-17, 2027

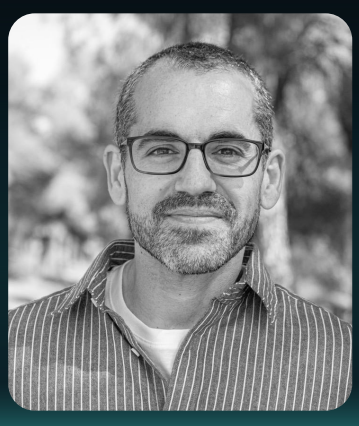
Special Session

CO-CREATED LIVING SPACES: DESIGN GUIDED BY HOW PEOPLE FEEL, SENSED WITH IMMERSIVE TECHNOLOGY BEFORE IT IS BUILT

ORGANIZERS:



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CALL FOR PAPERS

People spend most of their lives at home and in the streets around it, yet these places are still designed with little evidence of how they will feel to those who live there. This session looks at how residents can take part in the design of their living spaces, so that what they feel guides it, and how immersive and sensing technologies let them experience a place before it is built. It follows the idea of convivial technology: tools that people use, understand and control. We welcome long, short and professional papers at every scale, from the smart home to the neighbourhood, including early-stage work, study protocols and lessons from practice. The session is supported by the Horizon Europe project NEURO-REBUILD.

KEY TOPICS

- Co-creation methods with residents
- Smart homes, ambient sensing and living labs
- Immersive digital twins of homes, buildings and public spaces
- Virtual and extended reality to experience a design before construction
- Wearable and physiological sensing: EEG, eye tracking, electrodermal activity, heart rate
- Machine learning on multimodal data for stress, attention and emotional response
- Indicators of wellbeing, comfort and environmental quality
- Convivial and community-controlled technologies
- Ageing in place, accessibility and special needs
- Reconstruction of homes and neighbourhoods after disasters and conflict
- Decision support for designers, housing providers and public administrations
- Ethics, privacy and governance of neural and physiological data

FULL PAPER SUBMISSION FEBRUARY 18, 2027

NOTIFICATION OF ACCEPTANCE APRIL 16, 2027

CAMERA READY PAPER MAY 1, 2027

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