



Project Ideas from European brokerage events May 3-4

Luca Roselli, University of Perugia

Livio Baldi, President ECSEL Italy





Project proposals



Title	Topic	Organization	Coordinator
INSIGN	Development, construction and testing of a new type of intelligent road signs.	Gdansk University of Technology	Andrzej Czyzewski
CyberRadar	Non-contact devices to monitor patients' breathing and heart rhythm	Gdansk University of Technology, Faculty of ETI, Audio Acous	Bozena Kostek
MediSpeech	Digitalization of “doctor-patient” conversation for speech-to-text conversion, forms compilation, clinical decision support systms	KnowL solutions BV (NL)	Jan-Marc Verlinden
EXHALE	Early and objectively sensing and detection of COPD (Chronic Obstructive Pulmonary Disease) exacerbations with innovative technologies, wearables and smart algorithms	Stichting IMEC Nederland	Carlos Agell
RESTORE (HEALTH)	Biodegradable sensors, paper based electrodes and novel sensor packaging combined with machine learning tools	AlphaSIP	Miguel A. Roncales
WEMAI	Smart wearable ultra-low power edge AI system for healthcare applications	Delft University of Technology	Ryoichi Ishihara
Patchus	Wearable ultrasound patches for continuous monitoring of temperature, ECG, PPG and oxygenation	Philips Electronics Nederland B.V. (NLD)	Ronald Dekker
HEAL	Autonomous internal logistics solutions for hospitals. Integrating technologies and predictive modeling.	Enchanted Tools (FR)	Samuel Benveniste



Project proposals



Title	Topic	Organization	Coordinator
LoLiPoP	Long battery life solutions for ultra low power wireless IoT edge devices. Low power components, power management and energy harvesting supported by tools and algorithms.	Tyndall National Institute	Mike Hayes
R-PODID 2022	Power converters stages to allow reliable power-off of industrial machines when not needed	Fraunhofer IMS	Maren Kasischke
DIGISHOC	Digital logistic- Very ambitious.	Spinverse (FL)	Eeva Viinikka
JudgeAI	Artificial intelligence for the decision-making process in the most important stage of the trial. At the end of the research, the trial version of the “e-judge” that can serve over the website and mobile applications will be shared with the public.	Eskişehir Osmangazi University Law Faculty / Co (TU)	Yasin Aydoğdu
MutSim	Demonstrate the feasibility of mutation testing on Simulink software artifacts. Especially targets safety critical embeded systems with hard real-time deadlines working under tight memory constraints.	Universiteit Antwerpen (BE)	Fons De Mey



Project proposals



Title	Topic	Organization	Coordinator
ETSAM	A project on methods and tools for effective training and deployment of AI based self-management features in mobile platforms for reliability and safety.	KTH Royal Institute of Technology (SV)	Dejiu CHEN
T4IoT	Programming tools for decentralized development of IoT applications with the focus on Industrial IoT.	Institute of Computer Engineering, University of Lübeck (GE)	Javad Ghofrani
NextGenCert	Lowering the certification effort of safety-critical software while keeping, and possibly improving, the safety assurance degree of the final system.	University of Milano-Bicocca	Pietro Braione
Digital Mirror	Digital Mirror will build an open-source, AI-supported, visual analysis system for cyber-physical systems (CPSs), a “Google Maps for CPS”.	KTH Royal Institute of Technology (SV)	Cyrille Artho
EECONE	Reduce E-waste by design and increase recovery of critical materials.	STMicroelectronics	Patrick Blouet
HFM3AP	To develop an on-cloud computing platform suitable for multiphysics and multiscale modeling of complex electrical and electronic packages, devices, components, and systems	Luleå University of Technology	Jonas Ekman
RELIANCE	Advances in automated interdependability management (AIM)	Technical University of Denmark	Paul Pop



Thank you and good luck!