



# NEWSLETTER

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## ABOUT

CISC is a Marie Curie Training Network funded by the European Commission to hire and train Early Stage Researchers (ESR) or PhD student as Collaborative Intelligence Scientists with the transferable skills necessary for thriving careers and for setting up a blueprint of for postgraduate training in the burgeoning area of Collaborative Intelligence for Safety Critical systems. This area is core to the European declared 'human-centric' approach to AI 4 that requires a human capital able to prepare for the socio-economic changes brought about by AI.

## CISC RESEARCH



**LIVE LAB 1: COLLABORATIVE  
ROBOTIC AND MORE NATURALISTIC  
INTERACTIONS**

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**LIVE LAB 2: SUPPORTING ANOMALY  
DETECTION FOR HUMAN AND  
TECHNOLOGICAL TASKS WITH  
EARLY WARNING SIGNALS IN  
MANUFACTURING ENVIRONMENT**

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**LIVE LAB 3: SUPPORTING DECISION  
MAKING AND ALARM  
MANAGEMENT IN SAFETY CRITICAL  
CONTROL ROOM SCENARIOS**

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# NEWS AND EVENTS

## CISC BOOTCAMP 2023 EXPLORING HUMAN FACTORS IN INTELLIGENT AUTONOMOUS AND ROBOTIC SYSTEMS: POSSIBLE DATA COLLECTION, ANALYSIS AND VALIDATION APPROACHES

In the dynamic sector of intelligent autonomous and robotic systems, CISC project hosted a transformative bootcamp from June 12th to June 16th, 2023. The agenda, centered around exploring human factors in these cutting-edge technologies, showcased an array of expert speakers, hands-on sessions, and thought-provoking discussions.



### Day 1

The morning sessions delved into Human Factors in control rooms, covering EMUEA standards, the experience of Integrating Human Factors in Ireland's National Train Control Centre, and learning about occupational safety and health guidance for remote working. The day proceeded with presentations on neuroergonomics and physiological computing, smart self-care for dementia, Managing mechanical safety in industrial Human-Robot interaction, followed by a keynote on Human Factors and Healthcare. The afternoon was dedicated to discussions about HF in design of control room.

### Day 2

The agenda featured a session on "The Weka Environment for Machine Learning and Data Mining," followed by a transition to "Association Rule Mining" and "Ensemble Learning." The rest of the day was dedicated to "Tobii tracker," focusing on the analysis of data from eye trackers, specifically focusing on the functionality and insights derived from Tobii tracker technology.

### Day 3

Day 3 began with a lecture on "Industrial Human-Robot Interaction." It then explored "Mechanical Safety in Collaborative Robotics," including a case study. The afternoon session focuses on "Guidelines for Integrating Cognitive Ergonomics in Collaborative Robotics Design," concluding with a group exercise on "Risk Management and Safety-Driven Redesign of Collaborative Assemble Systems."

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### Day 4

The day started with a detailed look at the "Data Management Plan," setting the stage for comprehensive insights. Following this, the agenda delved into the intricacies of "Dynamic Event Trees," providing a thorough examination of this critical component. In the afternoon, the focus transitioned to the theme of "User-Centered Design", offering participants an immersive exploration into this foundational aspect. The day concluded with a second session on this topic, ensuring a holistic engagement with the multifaceted area of user-centric design principles.

### Day 5

The concluding training day was designed to immerse participants in the creative field of Generative AI and writing. The morning session begins with an introduction followed by interactive exercises. The program transitions into a live participative session on LAIKA, coupled with the first working session where participants receive valuable assistance and feedback. During the second part of the day, the focus shifts to the ethical considerations of Generative AI, incorporating specific writing exercises guided by experienced facilitators.

Discover the findings from our Early-Stage Researchers - insights, new ideas, and smart solutions - by reading their latest publications.

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