



**UNIVERSITÀ DEGLI STUDI
DI CAGLIARI**

Dipartimento di Ingegneria elettrica ed elettronica
Direttore: Prof. Gian Luca Marcialis



HR EXCELLENCE IN RESEARCH

BullyBuster: Artificial Intelligence for Safer Digital and Physical Communities

Hosted by the Department of Electrical and Electronic Engineering (DIEE)
University of Cagliari

This programme presents the BullyBuster research ecosystem and its Artificial Intelligence technologies for the prevention of digital violence, the protection of vulnerable communities, and the enhancement of safety in both digital and physical environments.

Monday, May 25, 2026: Understanding and Preventing Digital
Violence

P Room – I Building

09:00–13:00

09:00 – 09:15

Welcome and Institutional Greetings

Introduction to the University of Cagliari, the Department of Electrical and Electronic Engineering (DIEE), and the BullyBuster Interuniversity Research Center.

09:15 – 09:25

Welcome Group Photo (First Take)

09:25 – 10:00

The BullyBuster Story

How an interdisciplinary research initiative evolved into a national and international reference point for the study and prevention of bullying, cyberbullying and digital violence.

Speaker: Prof. Gian Luca Marcialis



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DIPARTIMENTO DI INGEGNERIA ELETTRICA ED ELETTRONICA

DIPARTIMENTO DI ECCELLENZA MUR 2023-2027

DIEE

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10:00 – 10:30

[From Data Collection to Artificial Intelligence](#)

Presentation of the BullyBuster methodological framework: data acquisition, behavioural analysis, machine learning models, and AI-powered decision support systems.

Speaker: Prof. Gian Luca Marcialis

10:30 – 10:45

Coffee Break

10:45 – 11:30

[Demonstrator: Aggressive Text Detection](#)

Natural Language Processing techniques for the automatic identification of cyberbullying, hate speech and aggressive interactions in digital communications.

Speaker: Dr. Maurizio La Cava

11:30 – 12:15

[Demonstrator: Deepfake Detection](#)

Detection of manipulated multimedia content and AI-generated media as emerging threats to children and adolescents.

Speaker: Dr. Gianpaolo Perelli

12:15 – 13:00

[Demonstrator: Teacher Support Tool](#)

AI-assisted technologies supporting teachers in identifying risk situations and implementing prevention strategies in educational environments.

Speaker: Dr. Giulia Orrù



Tuesday, May 26, 2026: From BullyBuster to Real-World AI
Applications

M Room – I Building

15:00–19:00

15:00 – 15:30

[Beyond BullyBuster: AI Safety Technologies](#)

How technologies originally developed within BullyBuster can be adapted to broader safety and security scenarios.

Speaker: Dr. Marco Micheletto



15:30 – 16:15

Demonstrator: Anomaly Detection in Crowds

Computer vision techniques for identifying unusual behaviours, abnormal situations and potential safety risks in public environments.

Speaker: Dr. Giulia Orrù

16:15 – 17:00

Interactive Demonstration Session

Hands-on interaction with:

- Aggressive Text Detection
- Deepfake Detection
- Teacher Support Tool
- Crowd Anomaly Detection

Discussion with researchers and PhD students.

17:00 – 17:15

Coffee Break

17:15 – 18:00

Special Demonstration: AI for Maritime Safety and Search-and-Rescue

Presentation of the demonstrator currently showcased during the America's Cup events in Cagliari, illustrating how Artificial Intelligence technologies can support maritime surveillance, situational awareness and emergency response operations.

Speaker: Dr. Gianpaolo Perelli

INTERUNIVERSITY RESEARCH CENTER

18:00 – 18:45

Closing remarks: Research Opportunities and International Cooperation

Presentation of student mobility opportunities, MSc and PhD programmes, European projects, and future collaboration possibilities between the University of Cagliari and Bydgoszcz University of Science and Technology.

Speaker: Prof. Gian Luca Marcialis/Dr. Giulia Orrù

18:45 – 19:00

Farewell Group Photo