



IEEE STUDENT PAPER CONTEST

Circuits and Systems for Wellness & Sustainability

Project Presentation & Award Ceremony

 **August, 4th 2026** (during IEEE ICIEA 2026)

 **Cittadella Universitaria, Via Santa Sofia 64, 95123, Catania (CT)**

 **9:00 AM – Room: D02 Edificio della Didattica (Edificio 14)**



FREE REGISTRATION
ON EVENTBRITE

08:30 Students on-site registration

09:00 Welcome, PROF. GIOVANNI MUSCATO (Head of DIEEI)

09:15 Sponsors IEEE CAS (prof. Maide Bucolo) & IEEE IA/PELS Chapters (prof. Antonio Laudani)

PROJECT PRESENTATIONS (Chair dr. Emanuela Cutuli)

09:30 A 5G-Enabled Digital Twin Platform for UAV-Based Environmental Monitoring and Safety

Team: Andrea Caruso, Enricomaria Di Rosolini, Gabriele Florio, Daniele Riccobene, Matteo Schembri
Supervised by: Prof. Giovanni Schembra

09:50 Plants become Sensors, Transducers, and Electronic Components for Conditioning

Team: Giuliano Salerno, Antonio Ligresti, Mohamed Edbey, Elisabetta D'Amico, Teresa Claudia Calabrese
Supervised by: Prof. Carlo Trigona

10:10 Label-Free Hydrodynamic Platform for On-Chip Cell Differentiation and Autonomous Cell Activity Analysis

Team: Andrea Cusumano, Previtera Daniela, Pulvirenti Valentina, Rinaudo Salvatore, Terranova Giuseppe
Supervised by: Dr. Emanuela Cutuli, PhD Student Giulia Valenti

10:30 Coffe Break

11:00 Development of an Automated Silicon Carbide-Based Platform for Fast Radiotherapy Beam-Profiles Reconstructions

Team: Niccolò La Rosa, Lorenzo Cintoli, Alberto Vitale
Supervised by: Dr. Massimo Camarda (STLab)

11: 20 Hands-Free Voice-Controlled Quadruped Robot Assistant for the Visually Impaired

Team: David Omar Al Tawil, Simone Farina, Lorenzo Montano, Giulio Ranno
Supervised by: Prof. Paolo Arena, Prof. Alex Li Noce

11:40 Sponsors: IEEE Student Branch of the University of Catania (dr. Emanuela Cutuli)

12:00 AWARDS Ceremony

Evaluation Committee

Matteo Lo Presti
Former EVP,
STMMicroelectronics

Mariangela Camarda
CEO, Cos.E.A.P.

Luca Zagarella
COO, EDG

Claudia Corradino
Researcher, INGV

Ettore (Etto) Fins
Founder, FermiLabs.IT

**Circuits for a smarter, healthier,
and more sustainable future!**

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