

Session Program

25-29 May 2026

**25th IEEE Real Time Conference - La Biodola,
Elba, Italy**

***AI, Machine Learning, Real Time Simulation,
Intelligent Signal Processing***

La Biodola - Isola d'Elba (Italy)

Friday 29 May

10:30

AI, Machine Learning, Real Time Simulation, Intelligent Signal Processing

Session | Location: Hotel Hermitage, Maria Luisa Room

10:30-10:50

Deep-learning based Real-time Optical Plasma Boundary Detection for Plasma Shape Control on EAST Tokamak

Speaker

Qirui Zhang

10:50-11:10

Rapid Neutron Source Identification with Scatter-Based Spectrometers

Speaker

Dr David Breitenmoser

11:10-11:30

Real-Time Toroidal Equilibrium Reconstruction for RFX-mod2 via Quantized Neural Network in FPGA

Speaker

Lorenzo Saccaro

11:30-11:50

Towards FPGA-Memristive In-Memory Computing for Real-Time Inference in Artificial Intelligence

Speaker

Dr Raffaele Giordano

11:50-12:10

Co-Design for Ultra-Small ML on FPGAs with an Open-Source Toolchain and AI Agentic Workflow

Speaker

Qibin Liu

12:30