

Session Program

25-29 May 2026

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

***Real Time Diagnostics, Digital Twin, Control,
Monitoring, Safety and Security***

La Biodola - Isola d'Elba (Italy)

Monday 25 May

09:40

Real Time Diagnostics, Digital Twin, Control, Monitoring, Safety and Security

Session | **Location:** Hotel Hermitage, Maria Luisa Room | **Convener:** Martin Grossmann PSI

09:40-10:00

Evaluation of APODIS Plasma Disruption Predictor within the ITER Real-Time Framework

Speaker

German Arranz

10:00-10:20

Synchronization of the PLC Subsystems with the Timing Distribution System at the European XFEL

Speaker

Dmytro Levit

10:20-10:40

Configurable real-time emergency pulse termination system for investment protection in ITER's interlock architecture

Speaker

Ignacio Garcia

10:40-11:00

Firmware Architecture for the ePixUHR Detector Enabling 35-kHz X-ray Imaging with Real-Time FPGA/GPU Processing

Speaker

Larry Ruckman

11:00

Friday 29 May

15:40

Real Time Diagnostics, Digital Twin, Control, Monitoring, Safety and Security

Session | Location: Hotel Hermitage, Maria Luisa Room

15:40-16:00

Online PID in the RIBF DAQ system using Alveo/Versal data-center accelerator cards

Speaker

Yuto Ichinohe

16:00-16:20

Evaluation of a Real-Time FPGA-Based Thomson Scattering Diagnostic with diagnostic-to-interlock communication for enhanced operational flexibility at ASDEX Upgrade

Speaker

Cesar Gonzalez Brito

16:20-16:40

MDSplus Redis Based Distributed Dispatcher for ITER Neutral Beam Test Facility

Speaker

Nuno Cruz

16:40-17:00

FPGA-Based Autonomous Data Logging for Real-Time Beam Monitor Signal Processing in Proton Therapy

Speaker

Christian Groh

17:00