

# 23rd IEEE Real Time Conference

Aug 1 – 5, 2022 • via Zoom

The IEEE Nuclear and Plasma Sciences Society (NPSS) and its technical committee, Computer Applications in Nuclear and Plasma Sciences (CANPS) are pleased to announce the 23rd Real Time Conference. RT2022 is an interdisciplinary conference focusing on the latest developments in real time computing, data acquisition, transport and processing techniques. The conference will provide an opportunity for scientists, engineers, and students from all over the world to share the latest research and developments. This event also attracts relevant industries, integrating a broad spectrum of computing applications and technology.

## Scientific Applications

Nuclear Physics • Particle Physics • Nuclear Fusion • Plasma Physics • Medical Physics • Nuclear Power Instrumentation • Radiation Instrumentation • Astrophysics • Space Instrumentation • Accelerators • Real Time Safety and Security

## Topics

- Data Acquisition
- Trigger Systems
- Control, Monitoring, Test and Diagnostics
- Real Time AI and Machine Learning
- Fast Data Links and Networks
- Real Time system Architectures and Signal Processing
- Fast Electronics, Digitizers and ASICs
- Emerging Technologies and New Standards
- Real Time Simulation and Processing Farms
- Upgrades and Feedback on Experiences

## Organizers

Martin Grossmann (PSI) - Chair  
David Abbott (Jefferson Lab) - Co-Chair  
Martin Purschke (BNL)  
Masaharu Nomachi (Osaka-U)  
Adriano Luchetta (CNR)  
Pierre-André Amaudruz (TRIUMF)  
Keith Erickson (PPPL)  
Ryosuke Itoh (KEK)  
Zhen-An Liu (IHEP)  
Patrick Le Dû

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