



## 24<sup>th</sup> IEEE Real Time Conference – Quy Nhon, Vietnam

ICISE Conference Center

22-26 April, 2024

### First Announcement and Call for Abstracts

Abstract Submission Deadline: December 1, 2023

The IEEE Nuclear and Plasma Sciences Society (NPSS) and its technical committee on Computer Applications in Nuclear and Plasma Sciences (CANPS) announce the 24<sup>th</sup> Real Time Conference (RT2024), an interdisciplinary conference devoted to the latest developments of real time computing, data acquisition, transport and processing techniques in the related fields including - nuclear and particle physics, nuclear fusion and nuclear power instrumentation, astrophysics and space instrumentation, medical physics and imaging, real time security and safety and general radiation instrumentation.

The upcoming RT2024 conference will be held at the ICISE Conference Center in the beautiful coastal city of Quy Nhon, Vietnam. It will be our first return to an in-person event since 2018. (It is about an hour's domestic flight from either Hanoi or Ho Chi Minh City). The conference dates are Monday-Friday April 22-26, 2024. A pre-conference workshop is planned for both Saturday and Sunday April 20-21.

Real Time is a smaller conference (typically around 200 participants) with a more specialized focus. We will hold only plenary sessions. In addition, plenary mini-orals will be offered for accepted poster submissions. This allows for a more engaged and stimulating environment for discussion and exchange, particularly for students and younger scientists and engineers. Papers submitted at the conference will have the option for peer review and, if accepted, will be published in a special edition of the **IEEE Transactions on Nuclear Science** journal.

Select conference topics include:

Data Acquisition Architectures, Intelligent Signal Processing, Front End Electronics and Fast Digitizers, Trigger Systems and GPUs, Fast Data Transfer Links and Networks, Control, Monitoring, Test and Real Time Diagnostics Systems, Data Processing Farms, Real Time Simulation, Real Time AI and Machine Learning, Emerging Technologies, New Standards, Feedback on Experiences

We welcome correspondence to inquire how your research might fit within our program. Submission of abstracts for both oral and poster presentations will be open in September. All details including key dates and submission guidelines can be found on the conference website. Please consider joining us. On behalf of the CANPS committee we look forward to welcoming you to Quy Nhon, Vietnam in April 2024.

David J Abbott, CANPS Chair

Conference e-mail: [rt2024@jlab.org](mailto:rt2024@jlab.org)

Conference website: <https://indico.cern.ch/e/rt2024>