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Special Session Proposal

Title

Real-time embedded systems

Session organizers

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Brief Description of the session thematic

Signals in embedded systems play a crucial role in enabling communication, control, and interaction between different components, allowing the system to perform its intended functions effectively. Embedded systems find applications across a wide range of industries and domains due to their versatility, efficiency, and ability to perform specific tasks reliably. Real-time embedded systems play a crucial role in ensuring safety, reliability, and efficiency in various domains where timing constraints are paramount. As technology continues to advance, the scope and complexity of embedded system applications are expected to expand further. AI embedded systems represent a growing field at the intersection of AI and embedded systems, enabling intelligent capabilities in a wide range of edge devices and applications.

Topics and Keywords

Video coding, medical devices and home automation are just a few examples of the diverse range of applications where embedded systems play a crucial role. In addition, designing AI embedded systems involves addressing challenges such as hardware-software co-design, power efficiency, real-time performance, security, robustness to environmental conditions, and scalability across different deployment scenarios.

VVC, 3D-Video, Medical Device, Smart Home, IA, real time, co-design

Number of pages

4 to 6 pages

Deadlines

Full paper submission: June 15th, 2024 Authors' notification: August 30th, 2024

Camera-ready paper submission: September 15th, 2024

List of potential reviewers

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