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Toward New Era of Computing: From Devices to Applications

Aida Todri-Sanial

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Title: Toward New Era in Computing: From Devices to Applications

Abstract: This talk aims to give a bottom-up overview on novel computing paradigms covering aspects from devices, interconnects, architectures to applications. Non Von-Neumann architectures such as neuromorphic and quantum computing progress and challenges are discussed including some of our current research on these topics.

Short Bio: Aida Todri-Sanial has a PhD degree in electrical and computer engineering from the University of California Santa Barbara, CA in 2009. She is a Director of Research at CNRS attached to LIRMM. Her research is focused on physical design for emerging technologies. Currently, she is exploring Neuromorphic Computing to enable AI at the Edge and Quantum Computer-Aided Design methods for enabling quantum circuit design on NISQ hardware.