

International Workshop on Domain Specific Accelerators (18, 25 June & 2, 9 July, 2021)

(Under the SPARC Project ‘Approximate Computing Techniques for Resource Constrained Edge Devices’)

Resource person:

Dr. Maurizio Palesi
Department of Computer Engineering
University of Catania, Italy



Workshop [total 12 hours] will be conducted in online mode.

Dates: 18 June 2021, 25 June, 02 July 2021, & 09 July 2021.

Time: Session 1: 1.00 – 2:30 PM, Session 2: 3:00 – 4:30 PM (IST)

Workshop Contents

- Inefficiency in General Purpose architectures
- Domain Specific Architectures
- Source of acceleration
- Communication issues
- Basics on Deep Neural Networks
- Kernel computation
- Data-flow techniques
- Energy-efficient data-flow techniques
- DNN accelerators architectures: Eyeriss, Simba
- Improving performance and energy through model compression

Resource Person Profile [<http://utenti.dieei.unict.it/users/mpalesi/>]

Dr. Maurizio Palesi is an Associate Professor in Computer Engineering at University of Catania, Italy. His research activity is focused in the area of embedded systems with particular emphasis on single-chip implementations based on the network-on-chip design paradigm. He has served as Guest Editor of 30 special issues in top-level journals. He has served as General Chair and TPC Co-Chair in several international conferences and workshops. He serves as Associate Editor in 15 international journals. He has been recipient of the best paper award at the DATE 2011 and the HiPEAC paper award 2014. He is member of the HiPEAC and IEEE Senior Member. Since 2017, he is having active research collaboration with IIT Guwahati through GIAN and SPARC projects.

For more details, visit the workshop website: <https://www.iitg.ac.in/johnjose/sparc2.html>

Who are eligible?

- (1) UG, PG and Ph.D students & faculty of CSE/ECE/EEE/IT branches.
- (2) Personnel from industry and R&D firms who are interested in this domain.

E-certificates will be provided to participants who attend all sessions of the workshop.

No Registration Fee | **Limited seats** | **Last date for registration: 13.06.2021**

Registration Form link: <https://tinyurl.com/3pj4s5jx>

Publication of first list of selected candidates on workshop website: 10.06.2021

Publication of final list of selected candidates on workshop website: 14.06.2021

Shortlisted candidates need to confirm their participation to receive the link for online sessions.

Programme Coordinators:

Dr. John Jose & Dr. T. Venkatesh

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