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Next Generation Digital Infrastructures IoT, distributed systems, HPC, multimedia services...

Thèmes de recherche 2021

1. **Manycore** : design and hardware implementation ASIC/FPGA, performance evaluation, automatic design space exploration (4096 PE NOC based world record single Network on Chip)/ 3D IC design and implementation

2. **Performance evaluation tools and methods:** HPC/distributed systems/parallel applications

3. **Energy consumption for HPC applications:** low power SOC design, multicore design (ARM based)

4. **Low power hardware accelerator :** Image processing, AI/ML , graph processing/big data

5. Modelling and multiobjective optimization of renewable energy data centers

6. **System of systems:** System of systems design of digital infrastructures (IoT, Cloud)/MDE/MBSE