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## Hardware Design Systems at Chip and Board Level

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Deadline for manuscript  
submissions:

**closed (31 October 2021)**

### Message from the Guest Editor

We invite contributions for a SI on hardware design methodologies, specification languages, and standards for on-chip and inter-chip interconnect. Designers are increasingly looking for turn-key tool flows when assembling components at the ASIC, MCM, PCB or rack level. Automated flows validate functional requirements, estimate metrics for performance, area and energy, and generate documentation and software stubs for hardware/software co-design and hierarchical modular assembly.

High-performance serial interconnect is increasingly used at the physical layer with channel bonding, channel sharing, and protocol adaption implemented in hardware at the end points. Automatic deployment of such channels is especially important for portable hardware accelerators that must be projected onto different numbers of FPGAs on various blades. Equally, memory bank aggregation and sharing must also be managed with something akin to link editing required to allocate address maps in both DRAM and register spaces.

Again, inter-vendor tool flows should preferably manage the nuts-and-bolts of debug access and facilitate multi-chip composition.



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## Editor-in-Chief

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## Message from the Editor-in-Chief

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