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Nota di contenuto	Introduction Automatic Generation of Cycle-Accurate Simulink Blocks from HDL IPs Towards Early Validation of Firmware-Based Power Management Using Virtual Prototypes: A Constrained Random Approach Symbolic Simulation of Dataflow Synchronous Programs with Timers Language and Hardware Acceleration Backend for Graph Processing Runtime Task Mapping for Lifetime Budgeting in Many- Core Systems Fault Analysis in Analog Circuits through Language Manipulation and Abstraction Towards Consistency Checking Between HDL and UPF Descriptions.
Sommario/riassunto	This book brings together a selection of the best papers from the twenty-first edition of the Forum on specification and Design Languages Conference (FDL), which took place on September 10-12, 2018, in Munich, Germany. FDL is a well-established international forum devoted to dissemination of research results, practical experiences and new ideas in the application of specification, design

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and verification languages to the design, modeling and verification of integrated circuits, complex hardware/software embedded systems, and mixed-technology systems. Covers Assertion Based Design, Verification & Debug; Includes language-based modeling and design techniques for embedded systems; Covers design, modeling and verification of mixed physical domain and mixed signal systems that include significant analog parts in electrical and non-electrical domains; Includes formal and semi-formal system level design methods for complex embedded systems based on the Unified Modelling Language (UML) and Model Driven Engineering (MDE).