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SOFSEM 2017: Theory and Practice of Computer Science

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Condition: New. Publisher/Verlag: Springer, Berlin | 43rd International Conference on Current Trends in Theory and Practice of Computer Science, Limerick, Ireland, January 16-20, 2017, Proceedings | This book constitutes the refereed proceedings of the 43rd International Conference on Current Trends in Theory and Practice of Computer Science, SOFSEM 2017, held in Limerick, Ireland, in January 2017.The 34 papers presented in this volume were carefully reviewed and selected from 41 submissions. They were organized in topical sections named: foundations in computer science; semantics, specification and compositionality; theory of mobile and distributed systems; verification and automated system analysis; petri nets, games and relaxed data structures; graph theory and scheduling algorithms; quantum and matrix algorithms; planar and molecular graphs; coloring and vertex covers; algorithms for strings and formal languages; data, information and knowledge engineering; and software engineering: methods, tools, applications. | Dependable and Optimal Cyber-Physical Systems.- Verifying Parametric Thread Creation.- Network Constructors: A Model for Programmable Matter.- Logical characterisations and compositionality of input-output conformance simulation.- A Linear-Time Branching-Time Spectrum of Behavioral Specification Theories.- Symbolic semantics for multiparty interactions in the link-calculus.- Different Speeds Suffice for Rendezvous of Two Agents on Arbitrary Graphs.- Deciding structural liveness of Petri nets.- Distributed Network Generation based on...

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