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Real-time Systems -- Analysis of Hierarchical Semi-Markov Processes with Parallel Regions -- Combining Mobility Models with Arrival Processes -- Product Line Fault Tree Analysis by Means of Multi-valued Decision Diagrams -- Resolving Contention for Networks-on-Chips: Combining Time-triggered Application Scheduling with Dynamic Budgeting of Memory Bus Use -- The Weak Convergence of TCP Bandwidth Sharing -- Analysis of Mitigation Measures for Timing Attacks in Mobile Offloading Systems -- Capabilities of Raspberry Pi 2 for Big Data and Video Streaming Applications in Data Centres -- Ensemble-Based Uncertainty Quantification for Smart Grid Co-Simulation. .

Sommario/riassunto	This book constitutes the proceedings of the 18th International GI/ITG Conference on Measurement, Modelling and Evaluation of Computing Systems and Dependability and Fault Tolerance, MMB & DFT 2016, held in Münster, Germany, in April 2016. The 12 full papers and 3 short papers included in this volume were carefully reviewed and selected from 23 submissions. The papers deal with the fields of performance evaluation, dependability, and fault-tolerance of computer and communication systems. A relatively new topic of smart grids is also covered.