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	Computer communication systems
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Nota di contenuto	BDD-Based Software Model Checking with CPAchecker -- Security for Cyber-Physical Systems -- Quantum Secret Sharing with Graph States -- Testing Embedded Memories: A Survey -- Quicksort and Large Deviations -- Recent Results on Howard's Algorithm -- Advantage of Quantum Strategies in Random Symmetric XOR Games -- Verification of Liveness Properties on Closed Timed-Arc Petri Nets -- Fast Algorithm for Rank-Width -- Determinacy in Stochastic Games with Unbounded Payoff Functions -- Strategy Complexity of Finite-Horizon Markov Decision Processes and Simple Stochastic Games --

Controllable-Choice Message Sequence Graphs -- A Better Way towards Key Establishment and Authentication in Wireless Sensor Networks -- Parameterized Algorithms for Stochastic Steiner Tree Problems -- Action Investment Energy Games -- Ciphertext-Only Attack on Gentry-Halevi Implementation of Somewhat Homomorphic Scheme -- Grover's Algorithm with Errors -- On WQO Property for Different Quasi Orderings of the Set of Permutations -- Towards User-Aware Multi-touch Interaction Layer for Group Collaborative Systems.

Sommario/riassunto	This volume contains the post-proceedings of the 8th Doctoral Workshop on Mathematical and Engineering Methods in Computer Science, MEMICS 2012, held in Znojmo, Czech Republic, in October, 2012. The 13 thoroughly revised papers were carefully selected out of 31 submissions and are presented together with 6 invited papers. The topics covered by the papers include: computer-aided analysis and verification, applications of game theory in computer science, networks and security, modern trends of graph theory in computer science, electronic systems design and testing, and quantum information processing.