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Nota di contenuto	The Power of Cryptographic Attacks: Is Your Network Really Secure Against Side Channels Attacks and Malicious Faults? -- Role-Based Self-configuration of Sensor Networks -- Robots and Molecules -- Relating Stabilizing Timing Assumptions to Stabilizing Failure Detectors Regarding Solvability and Efficiency -- Distributed Synthesis of Fault-Tolerant Programs in the High Atomicity Model -- Decentralized Detector Generation in Cooperative Intrusion Detection Systems -- Stabilizing Flocking Via Leader Election in Robot Networks -- Stabilization in Dynamic Systems with Varying Equilibrium -- Snap-Stabilizing Prefix Tree for Peer-to-Peer Systems -- Decentralized,

Connectivity-Preserving, and Cost-Effective Structured Overlay Maintenance -- On the Performance of Dijkstra's Third Self-stabilizing Algorithm for Mutual Exclusion -- Stability of the Multiple-Access Channel Under Maximum Broadcast Loads -- Stabilization of Flood Sequencing Protocols in Sensor Networks -- Stabilization of Loop-Free Redundant Routing -- Secure Failure Detection in TrustedPals -- Probabilistic Fault-Containment -- Self* Minimum Connected Covers of Query Regions in Sensor Networks -- Robust Stabilizing Leader Election -- Byzantine Self-stabilizing Pulse in a Bounded-Delay Model -- Magnifying Computing Gaps Establishing Encrypted Communication over Unidirectional Channels (Extended Abstract) -- Stabilizing Trust and Reputation for Self-Stabilizing Efficient Hosts in Spite of Byzantine Guests (Extended Abstract) -- r -Semi-Groups: A Generic Approach for Designing Stabilizing Silent Tasks -- Global Predicate Detection in Distributed Systems with Small Faults -- The Truth System: Can a System of Lying Processes Stabilize? -- Temporal Partition in Sensor Networks -- Secure and Self-stabilizing Clock Synchronization in Sensor Networks -- On the Probabilistic Omission Adversary -- Upper Bounds for Stabilization in Acyclic Preference-Based Systems -- A Self-stabilizing Weighted Matching Algorithm -- Self-stabilization and Virtual Node Layer Emulations.

Sommario/riassunto

This book constitutes the refereed proceedings of the 9th International Symposium on Stabilization, Safety, and Security of Distributed Systems, SSS 2007, held in Paris, France, November 14-16, 2007. The 27 regular papers presented together with the extended abstracts of 3 invited lectures were carefully reviewed and selected from 64 submissions. The papers address all aspects of self-stabilization, safety and security, recovery oriented systems and programming, from theoretical contributions, to reports of the actual experience of applying the principles of self-stabilization to static and dynamic systems.
