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De Meer, Hermann; Sterbenz, James P. G.;

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This book constitutes the refereed proceedings of the First International Workshop on Self-Organizing Systems, IWSOS 2006, held in Passau, Germany in September 2006. The 16 revised full papers and 6 revised short papers presented together with 2 invited talks and 3 poster papers were carefully selected from more than 70 submissions. The papers are organized in topical sections on dynamics of structured and unstructured overlays, self-organization in peer-to-peer networks, self-organization in wireless environments, self-organization in distributed and grid computing, self-organization for network management and routing, self-managing and autonomic computing, peer-to-peer systems, as well as self-protection and security.

Invited Program Keynote Making Self-organizing Systems Secure Panel Self-organising Networks: Panacea or Pandora's Box? Full Papers Dynamics of Structured and Unstructured Overlays The Challenges of Merging Two Similar Structured Overlays: A Tale of Two Networks Self-protection in P2P Networks: Choosing the Right Neighbourhood Self-organization in Peer-to-Peer Networks Modelling the Population Dynamics and the File Availability in a BitTorrent-Like P2P System with Decreasing Peer Arrival Rate Combining Virtual and Physical Structures for Self-organized Routing Optimizing Locality for Self-organizing Context-Based Systems Self-organization in Wireless Environments Randomized Self-stabilizing Algorithms for Wireless Sensor Networks The Case for Virtualized Wireless Access Networks Self-organization in Distributed and GRID Computing Job Scheduling for Maximal Throughput in Autonomic Computing Systems Investigating Global Behavior in Computing Grids Using Decentralized Clustering for Task Allocation in Networks with Reconfigurable Helper Units Self-organization for Network Management and Routing Self-tuned Refresh Rate in a Swarm Intelligence Path Management System Cross-Layer Approach to Detect Data Packet Droppers in Mobile Ad-Hoc Networks On-Demand Distributed Energy-Aware Routing with Limited Routh Length Self-managing and Autonomic Computing Automatic Data Locality Optimization Through Self-optimization…… Short Papers PostersAuthor Index

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