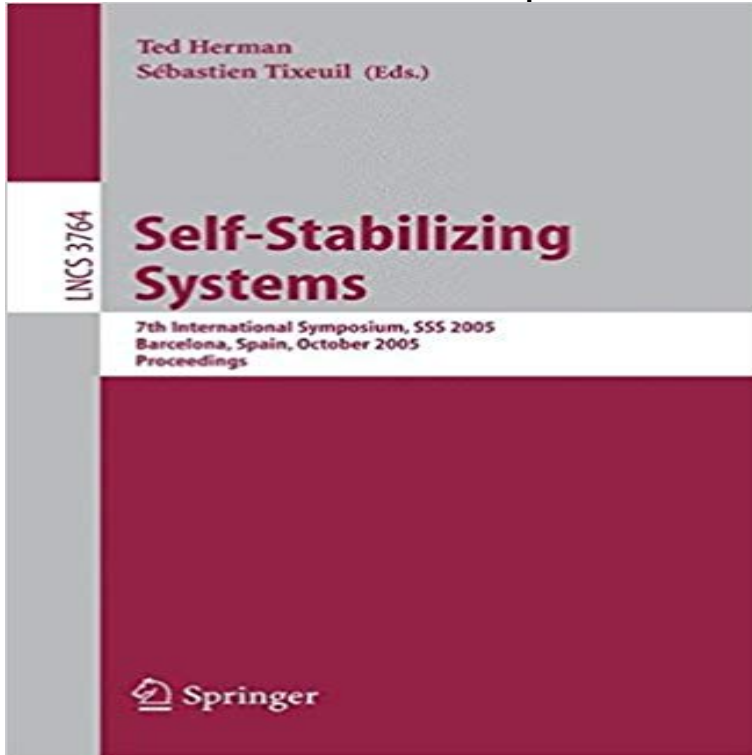


# Self-Stabilizing Systems: 7th International Symposium, SSS 2005, Barcelona, Spain, October 26-27, 2005 (Lecture Notes in Computer Science / Theoretical Computer Science and General Issues)



Self-stabilization is an established principle of modern distributed system design. The advantages of systems that self-recover from transient failures, temporary security attacks, and spontaneous reconfiguration are obvious. Less obvious is how the ambitious goal of recovering from the most general case of a transient fault, namely that of an arbitrary initial state, can lead to a simpler system design than dealing with particular cases of failures. In the area of mathematical problem-solving, Polya gave the term the inventor's paradox to such situations, where generalizing the problem may simplify the solution. The dramatic growth of distributed systems, peer-to-peer distribution networks, and large grid computing environments confronts designers with serious difficulties of complexity and has motivated the call for systems that self-recover, self-tune, and self-manage. The principles of self-stabilization can be useful for

these goals of autonomous system behavior. The Symposium on Self-Stabilizing Systems (SSS) is the main forum for research in the area of self-stabilization. Previous Workshops on Self-Stabilizing Systems (WSS) were held in 1989, 1995, 1997, 1999, and 2001. The previous Symposium on Self-Stabilizing Systems (SSS) took place in 2003. Thirty-three papers were submitted to SSS 2005 by authors from Europe (16), North America (8), Asia (4), and elsewhere (5). From the submissions, the program committee selected 15 for inclusion in these proceedings. In addition to the presentation of these papers, the symposium event included a poster session with brief presentations of recent work on self-stabilization.

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