



Self-Stabilizing Systems: 5th International Workshop, Wss 2001, Lisbon, Portugal, October 1-2, 2001 Proceedings

By-

Springer. Paperback. Book Condition: New. Paperback. 236 pages. Dimensions: 9.1in. x 6.1in. x

0.6in.Physicalsystemswhichrightthemselvesafterbeingdisturbedevokeour curiosity becausewe wantto understand howsuchsystemsareableto reactto unexpected stimuli. Themechanisms are all the morefascinating when systems are composed of small, simple units, and the ability of the system to self-stabilize emerges out of its components. Faithful computer simulations of such physical systems exhibit the selfstabilizing property, but in the realm of computing, particularly for distributed systems, wehavegreaterambition. We imaginethat all manner of software, ranging from basic communication protocols to high-level applications, could enjoy self-corrective properties. Selfstabilizing software oers a unique, non-traditional approach to the ccial problem of transient fault tolerance. Many successful instances of modern fault-tolerant networks are based on principles of selfstabilization. Surprisingly, the most widely accepted technical denition of a self-stabilizing system does not refer to faults: it is the property that the system can be started in any i-tial state, possibly an illegal state, and yet the system guarantees to behave properly in nite time. This, and similar denitions, break many traditional approaches to program design, in which the programmer by habit makes - sumptions about initial conditions. The composition of self-stabilizing systems, initially seen as a daunting challenge, has been transformed into a mana- able task, thanks to...



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