

io-port 05344413

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Controlling process modularity in mobile computing.

Jones, Cliff B. (ed.) et al., Theoretical aspects of computing – ICTAC 2007. 4th international colloquium, Macau, China, September 26–28, 2007. Proceedings. Berlin: Springer (ISBN 978-3-540-75290-5/pbk). Lecture Notes in Computer Science 4711, 246-259 (2007).

Summary: A variant of π -calculus which can flexibly and dynamically control process modularity is presented. The calculus is equipped with a two level structure to represent process distribution and mobility over flat locations. It provides a suitable model for modular programming in concurrent and mobile computing. Several bisimulation relations are discussed, and a notion of bisimulation-preorder is proposed to reflect some aspects of mobile distributed computing such as interaction costs.

Keywords: mobile computing; process modularity; bisimulation-preorder; interaction-costs

doi:10.1007/978-3-540-75292-9_17