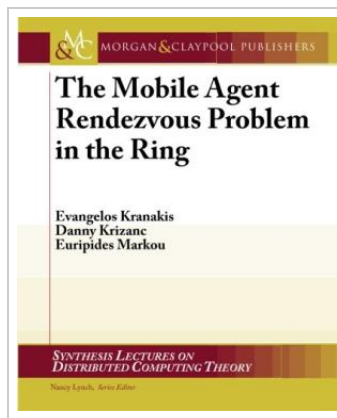




The Mobile Agent Rendezvous Problem in the Ring (Paperback)

By Evangelos Kranakis, Danny Krizanc, Euripides Markou

Morgan Claypool Publishers, United States, 2010. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Mobile agent computing is being used in fields as diverse as artificial intelligence, computational economics and robotics. Agents ability to adapt dynamically and execute asynchronously and autonomously brings potential advantages in terms of fault-tolerance, flexibility and simplicity. This monograph focuses on studying mobile agents as modelled in distributed systems research and in particular within the framework of research performed in the distributed algorithms community. It studies the fundamental question of how to achieve rendezvous, the gathering of two or more agents at the same node of a network. Like leader election, such an operation is a useful subroutine in more general computations that may require the agents to synchronize, share information, divide up chores, etc. The work provides an introduction to the algorithmic issues raised by the rendezvous problem in the distributed computing setting. For the most part our investigation concentrates on the simplest case of two agents attempting to rendezvous on a ring network. Other situations including multiple agents, faulty nodes and other topologies are also examined. An extensive bibliography provides many pointers to related work not covered in the...



READ ONLINE
[8.34 MB]

Reviews

Absolutely essential go through publication. This can be for all who statte there was not a worthy of looking at. Its been printed in an remarkably basic way and it is just right after i finished reading this book through which in fact altered me, modify the way i think.

-- **Dr. Haskell Osinski**

An exceptional book and also the font utilized was intriguing to read. This is for all who statte there was not a worth reading. It is extremely difficult to leave it before concluding, once you begin to read the book.

-- **Prof. Tyson Hilpert**