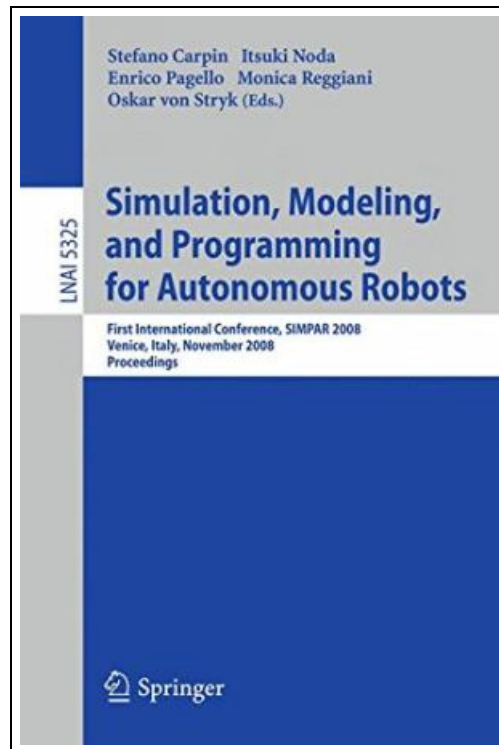


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Springer. Paperback. Condition: New. 354 pages. Dimensions: 9.2in. x 6.1in. x 0.9in. The First International Conference on Simulation, Modeling, and Programming for Autonomous Robots (SIMPAR 2008) was held during November 3-6, 2008, in Venice, at Telecom Future Center, with a special session held in Padua, in the Archivio Antico of the university. The SIMPAR Conference was promoted to offer to a selected number of researchers the possibility to discuss, in a highly stimulating atmosphere, how to identify and solve the key issues necessary to ease the development of robot software, and boost a smooth shifting of results from simulation to real applications. Novel robotics applications driven by society and industry call for the development of systems of ever-increasing complexity. Systems with sliding autonomy, humanoid robots, distributed robots, and mobile sensor networks are just a few examples of this exciting area. But unfortunately, steady improvements in robot hardware have not been matched by corresponding advancements in robot software. Besides fundamental open problems still waiting for sound answers, the lack of broadly accepted and reusable development tools, libraries, standards, and algorithms is one of the main technological obstacles towards the efficient development of this new generation of robotics applications. Hence, simulation environments able to replicate robot sensing and motion abilities and their interaction with the physical world are playing an essential role in reducing the development time and cost of large-scale autonomous systems. Notwithstanding, their use is still regarded by many as suspicious. Seamless migration of code from general-purpose simulators to real-world systems is still a rare circumstance, due to the complexity of robot, world, sensors, and actuators modeling. The above challenges drive the quest for next-generation development methods in robotics. We are convinced that SIMPAR has succeeded in giving a first answer to this search, and it can be followed by proper scientific and engineering actions in the near future. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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