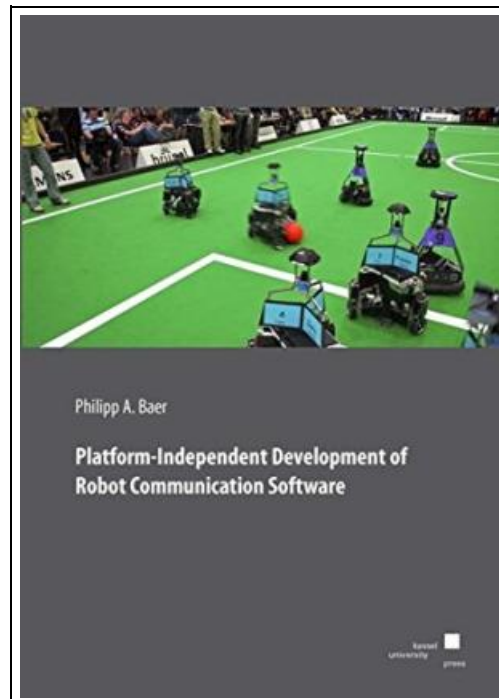


Platform-Independent Development of Robot Communication Software



Filesize: 2.83 MB

Reviews

Completely essential study publication. Better than never, though i am quite late in start reading this one. I am very easily could get a delight of reading a composed publication.

(Marilyne Macejkovic)

PLATFORM-INDEPENDENT DEVELOPMENT OF ROBOT COMMUNICATION SOFTWARE



To read **Platform-Independent Development of Robot Communication Software** PDF, remember to refer to the web link listed below and download the ebook or get access to other information which might be have conjunction with PLATFORM-INDEPENDENT DEVELOPMENT OF ROBOT COMMUNICATION SOFTWARE book.

Kassel University Press Feb 2009, 2009. Taschenbuch. Condition: Neu. Neuware - Robotic appliances have gained significant influence in various fields of computer science research during the last fifteen years. New technologies and the availability of suitable hardware in particular boosted advances in robot development. Most recently, mobility and cooperation turned out as new challenges where in particular biologically inspired systems and swarm robotics are involved. Robot control software is considered highly important in this context, involving challenges for robot software architects: The need to master heterogeneity issues and find suitable interaction schemes that are reconcilable with the capabilities of the wireless communication media. This thesis addresses the platform-independent software development of communication infrastructures for mobile robotic systems. The Spica development framework supports the needs of robot software architects by realising a platform-independent development methodology that rests upon the model-orientated software development paradigm. Spica thereby hides implementation details using abstract models. It explicitly takes into account the circumstance that communication may fail or behave unexpectedly. A model transformation approach creates ready-to-use, platformspecific, and optimised software implementations for specific programming languages from the abstract models. Supportive functionality facilitates collaboration between multiple robots. The distributed resource discovery engine Geminga helps establishing the required communication infrastructure. It also takes care of dynamic reconfiguration. In order to facilitate the development of distributed software architectures, Spica provides a decentralised monitoring facility for logging and monitoring in highly dynamic environments. Rigorous theoretical and experimental evaluation finally shows the viability of the Spica development approach. 205 pp. Englisch.



[Read Platform-Independent Development of Robot Communication Software Online](#)



[Download PDF Platform-Independent Development of Robot Communication Software](#)

You May Also Like



[PDF] **Young and Amazing: Teens at the Top High Beginning Book with Online Access (Mixed media product)**

Click the hyperlink below to download "Young and Amazing: Teens at the Top High Beginning Book with Online Access (Mixed media product)" PDF document.

[Read eBook >](#)



[PDF] **Dog on It! - Everything You Need to Know about Life Is Right There at Your Feet**

Click the hyperlink below to download "Dog on It! - Everything You Need to Know about Life Is Right There at Your Feet" PDF document.

[Read eBook >](#)



[PDF] **Baby 411 Clear Answers and Smart Advice for Your Babys First Year by Ari Brown and Denise Fields 2009 Paperback**

Click the hyperlink below to download "Baby 411 Clear Answers and Smart Advice for Your Babys First Year by Ari Brown and Denise Fields 2009 Paperback" PDF document.

[Read eBook >](#)



[PDF] **Barabbas Goes Free: The Story of the Release of Barabbas Matthew 27:15-26, Mark 15:6-15, Luke 23:13-25, and John 18:20 for Children**

Click the hyperlink below to download "Barabbas Goes Free: The Story of the Release of Barabbas Matthew 27:15-26, Mark 15:6-15, Luke 23:13-25, and John 18:20 for Children" PDF document.

[Read eBook >](#)



[PDF] **Genuine book Oriental fertile new version of the famous primary school enrollment program: the intellectual development of pre-school Jiang(Chinese Edition)**

Click the hyperlink below to download "Genuine book Oriental fertile new version of the famous primary school enrollment program: the intellectual development of pre-school Jiang(Chinese Edition)" PDF document.

[Read eBook >](#)



[PDF] **Instrumentation and Control Systems**

Click the hyperlink below to download "Instrumentation and Control Systems" PDF document.

[Read eBook >](#)