

Benoît Garbinato  
Hugo Miranda  
Luis Rodrigues (Eds.)

# Middleware

for Network Eccentric and  
Mobile Applications

 Springer

# Middleware For Network Eccentric And Mobile Applications

**Mehdia Ajana El Khaddar**

## **Middleware For Network Eccentric And Mobile Applications:**

Middleware for Network Eccentric and Mobile Applications Benoît Garbinato, Hugo Miranda, Luís Rodrigues, 2009-02-07

Middleware is a critical foundation needed to leverage the development of a wide range of mobile and ubiquitous applications. Intrinsic challenges when building such middleware require the combination of expertise from areas like distributed systems, networking, software engineering and application development. This textbook provides a comprehensive introduction to the main fundamental problems, technologies, paradigms and solutions of concern to developers of middleware for mobile environments. The contributions are grouped into four parts on networking and programming issues, communication models, middleware issues and application issues. Each chapter is structured as a self-contained tutorial presenting an overview of a specific topic and the state of the art solutions for the related problems. In addition, the book also includes an authoritative reference list. The material has been successfully used in several thematic training schools organized by the ESF MiNEMA Middleware for Network Eccentric and Mobile Applications program and the book's organization and presentation is ideal for an advanced course on middleware.

**MiNEMA , The Art of Wireless**

**Sensor Networks** Habib M. Ammari, 2013-12-13 During the last one and a half decades, wireless sensor networks have witnessed significant growth and tremendous development in both academia and industry. *The Art of Wireless Sensor Networks Volume 1: Fundamentals* focuses on the fundamental concepts in the design, analysis and implementation of wireless sensor networks. It covers the various layers of the lifecycle of this type of network from the physical layer up to the application layer. Its rationale is that the first volume covers contemporary design issues, tools and protocols for radio-based two-dimensional terrestrial sensor networks. All the book chapters in this volume include up-to-date research work spanning various classic facets of the physical properties and functional behavior of wireless sensor networks, including physical layer, medium access control, data routing, topology management, mobility management, localization, task management, data management, data gathering, security, middleware, sensor technology, standards and operating systems. This book will be an excellent source of information for both senior undergraduate and graduate students majoring in computer science, computer engineering, electrical engineering or any related discipline. In addition, computer scientists, researchers and practitioners in both academia and industry will find this book useful and interesting.

Advanced Communication and Networking Tai-hoon Kim, Hojjat Adeli, Rosslyn John Robles, Maricel Balitanas, 2011-08-05 This volume constitutes the refereed proceedings of the 3rd International Conference on Advanced Communication and Networking (ACN 2011) held in Brno, Czech Republic, in June 2011. The 57 revised full papers presented in this volume were carefully reviewed and selected from numerous submissions. The papers focus on the various aspects of progress in Advanced Communication and Networking with computational sciences, mathematics and information technology and address all current issues of communication basic and infrastructure networks basic and management, multimedia application, image, video, signal and information processing.

Distributed,

*Ambient, and Pervasive Interactions* Norbert Streitz, Panos Markopoulos, 2015-07-21 This book constitutes the refereed proceedings of the Third International Conference on Distributed Ambient and Pervasive Interactions DAPI 2015 held as part of the 17th International Conference on Human Computer Interaction HCII 2015 held in Los Angeles CA USA in August 2015 jointly with 15 other thematically conferences The total of 1462 papers and 246 posters presented at the HCII 2015 conferences were carefully reviewed and selected from 4843 submissions These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems The papers accepted for presentation thoroughly cover the entire field of human computer interaction addressing major advances in knowledge and effective use of computers in a variety of application areas This volume contains papers addressing the following major topics designing and developing intelligent environments natural interaction design and development of distributed ambient and pervasive interactions smart devices objects and materials location motion and activity recognition smart cities and communities and humor in ambient intelligence

Pervasive Computing and Networking Mohammad S. Obaidat, Mieso Denko, Isaac Woungang, 2011-06-09 This book presents state of the art research on architectures algorithms protocols and applications in pervasive computing and networks With the widespread availability of wireless and mobile networking technologies and the expected convergence of ubiquitous computing with these emerging technologies in the near future pervasive computing and networking research and applications are among the hot topics on the agenda of researchers working on the next generation of mobile communications and networks This book provides a comprehensive guide to selected topics both ongoing and emerging in pervasive computing and networking It contains contributions from high profile researchers and is edited by leading experts in this field The main topics covered in the book include pervasive computing and systems pervasive networking security and pervasive networking and communication Key Features Discusses existing and emerging communications and computing models design architectures mobile and pervasive wireless applications technology and research challenges in pervasive computing systems networking and communications Provides detailed discussions of key research challenges and open research issues in the field of autonomic computing and networking Offers information on existing experimental studies including case studies implementation test beds in industry and academia Includes a set of PowerPoint slides for each chapter for instructors adopting it as a textbook Pervasive Computing and Networking will be an ideal reference for practitioners and researchers working in the areas of communication networking and pervasive computing and networking It also serves as an excellent textbook for graduate and senior undergraduate courses in computer science computer engineering electrical engineering software engineering and information engineering and science

Big Data and Internet of Things: A Roadmap for Smart Environments Nik Bessis, Ciprian Dobre, 2014-03-11 This book presents current progress on challenges related to Big Data management by focusing on the particular challenges associated with context aware data intensive applications and services The book is a state of the art reference discussing

progress made as well as prompting future directions on the theories practices standards and strategies that are related to the emerging computational technologies and their association with supporting the Internet of Things advanced functioning for organizational settings including both business and e science Apart from inter operable and inter cooperative aspects the book deals with a notable opportunity namely the current trend in which a collectively shared and generated content is emerged from Internet end users Specifically the book presents advances on managing and exploiting the vast size of data generated from within the smart environment i e smart cities towards an integrated collective intelligence approach The book also presents methods and practices to improve large storage infrastructures in response to increasing demands of the data intensive applications The book contains 19 self contained chapters that were very carefully selected based on peer review by at least two expert and independent reviewers and is organized into the three sections reflecting the general themes of interest to the IoT and Big Data communities Section I Foundations and Principles Section II Advanced Models and Architectures Section III Advanced Applications and Future Trends The book is intended for researchers interested in joining interdisciplinary and transdisciplinary works in the areas of Smart Environments Internet of Things and various computational technologies for the purpose of an integrated collective computational intelligence approach into the Big Data era

**Opportunistic Networking** Nazmul Siddique,Syed Faraz Hasan,Salahuddin Muhammad Salim Zabir,2017-09-19 Opportunistic networking by definition allows devices to communicate whenever a window of opportunity is available Many emerging technologies employ opportunistic exchanges of information This book addresses this trend in communications engineering taking into account three specific areas vehicular device to device D2D and cognitive radio while describing the opportunistic communication methods of each From smart homes to smart cities smart agriculture to never die networks and beyond the text explores the state of the art of opportunistic networking providing the latest research developments and practices in one concise source *Annual Report European Science Foundation,2004* *The Pursuit of Efficient Copyright Licensing* Herkko Hietanen,2008 *The British National Bibliography* Arthur James Wells,2009 **The proceedings of the 7th MiNEMA workshop : middleware for network eccentric and mobile applications** Pekka Jäppinen,2008

*Proceedings of the 5th MiNEMA Workshop* Thomas Kiebel,François Taïani,European Science Foundation,2007 **Dissertation Abstracts International** ,2005 Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2009 The Handbook of Mobile Middleware Paolo Bellavista, Antonio Corradi,2016-04-19 Device miniaturization wireless computing and mobile communication are driving ubiquitous pervasive and transparent computing Supporting these rapidly evolving technologies requires middleware solutions that address connectivity level location dependent and context dependent issues The Handbook of Mobile Middleware is an exhaustive o

**Mobile Middleware** Sasu Tarkoma,2009-03-23 This book offers a unified treatment of mobile middleware technology Mobile Middleware Architecture Patterns and Practiceprovides a comprehensive overview of mobile middleware technology

The focus is on understanding the key design and architectural patterns middleware layering data presentation specific technological solutions and standardization. The author addresses current state of the art systems including Symbian Java 2 Micro Edition W3C technologies and many others and features a chapter on widely deployed middleware systems. Additionally the book includes a summary of relevant mobile middleware technologies giving the reader an insight into middleware architecture design and well known useful design patterns. Several case studies are included in order to demonstrate how the presented patterns solutions and architectures are applied in practice. The case studies pertain to mobile service platforms mobile XML processing thin clients rich clients and mobile servers. Chapters on Architectures and Platforms Mobile Messaging Publish Subscribe Data Synchronization and Security are also included. Key Features Provides a comprehensive overview of mobile middleware technology. Unified treatment of three core topical areas messaging publish subscribe and data synchronization. Discusses the role of middleware in the protocol stack. Focus on both standards and research systems including current state of the art systems such as Symbian Java 2 Micro Edition W3C technologies. Contains concrete examples showing the presented architectures and solutions in practice. Includes an accompanying website with links to open source software and other resources. This book serves as an invaluable guide to systems architects researchers and developers. It will also be of interest to graduate and undergraduate students studying computer science distributed systems computer networks.

*Active Middleware Services* Salim Hariri, Craig A. Lee, Cauligi S. Raghavendra, 2012-09-10

The papers in this volume were presented at the Second Annual Work shop on Active Middleware Services and were selected for inclusion here by the Editors. The AMS workshop was organized with support from both the National Science Foundation and the CAT center at the Uni versity of Arizona and was held in Pittsburgh Pennsylvania on August 1 2000 in conjunction with the 9th IEEE International Symposium on High Performance Distributed Computing HPDC 9. The explosive growth of Internet based applications and the proliferation of networking technologies has been transforming most areas of computer science and engineering as well as computational science and commercial application areas. This opens an outstanding opportunity to explore new Internet oriented software technologies that will open new research and application opportunities not only for the multimedia and commercial world but also for the scientific and high performance computing applications community. Two emerging technologies agents and active networks allow increased programmability to enable bringing new services to Internet based applications. The AMS workshop presented research results and working papers in the areas of active net works mobile and intelligent agents software tools for high performance distributed computing network operating systems and application pro gramming models and environments. The success of an endeavor such as this depends on the contributions of many individuals. We would like to thank Dr Frederica Darema and the NSF for sponsoring the workshop.

Middleware Architecture Mehdia Ajana El Khaddar, 2021-12-22. Middleware refers to the intermediate software layer that bridges the gap between the heterogeneous hardware platforms and the backend applications requirements. It allows

providing common services and programming abstractions and hiding the low level management of the connected hardware With the recent advances in distributed systems and enabling technologies such as RFID WSNs IoT IoE cloud computing context aware pervasive computing ubiquitous computing etc middleware design and development has become a necessity taking increasing importance This book provides a comprehensive overview of the different design patterns and reference models used in middleware architectures in general followed by a description of specific middleware architectures dedicated to the use of the different emerging technologies such as IoT cloud computing IEEE 802 11 etc This book intends therefore to bring together in one place up to date contributions and remaining challenges in this fast moving research area for the benefit of middleware systems designers and applications developers

**Middleware Solutions for the Internet of Things** Flávia C. Delicato,Paulo F. Pires,Thais Batista,2013-09-21 After a brief introduction and contextualization on the Internet of Things IoT and Web of Things WoT paradigms this timely new book describes one of the first research initiatives aimed at tackling the several challenges involved in building a middleware layer infrastructure capable of realizing the WoT vision the SmartSensor infrastructure It is based on current standardization efforts and designed to manage a specific type of physical devices those organized to shape a Wireless Sensor Network WSN where sensors work collaboratively extracting data and transmitting it to external networks to be further analysed and processed Middleware Solutions for the Internet of Things describes this infrastructure and its RESTful based programming model that allows developers create applications without having specific knowledge about physical devices or networking environments It is also shown step by step how to create a Web Mashup application using SmartSensor

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