



# A Context Aware Architecture For Iptv Services Personalization

**F Rizvi**



## **A Context Aware Architecture For Iptv Services Personalization:**

**Advanced Personalization of IPTV Services** Songbo Song, 2012 Internet Protocol TV IPTV delivers television content to users over IP based network Different from the traditional TV services IPTV platforms provide users with large amount of multimedia contents with interactive and personalized services including the targeted advertisement on demand content personal video recorder and so on IPTV is promising since it allows to satisfy users experience and presents advanced entertainment services On the other hand the Next Generation Network NGN approach in allowing services convergence through for instance coupling IPTV with the IP Multimedia Subsystem IMS architecture or NGN Non IMS architecture enhances users experience and allows for more services personalization Although the rapid advancement in interactive TV technology including IPTV and NGN technologies services personalization is still in its infancy lacking the real distinguish of each user in a unique manner the consideration of the context of the user who is this user what is his preferences his regional area location and his environment characteristics of the users devices screen types size supported resolution and networks available network types to be used by the user available bandwidth as well as the context of the service itself content type and description available format HD SD available language in order to provide the adequate personalized content for each user This advanced IPTV services allows services providers to promote new services and open new business opportunities and allows network operators to make better utilization of network resources through adapting the delivered content according to the available bandwidth and to better meet the QoE Quality of Experience of clients This thesis focuses on enhanced personalization for IPTV services following a user centric context aware approach through providing solutions for i Users identification during IPTV service access through a unique and fine grained manner different from the identification of the subscription which is the usual current case based on employing a personal identifier for each user which is a part of the user context information ii Context Aware IPTV service through proposing a context aware system on top of the IPTV architecture for gathering in a dynamic and real time manner the different context information related to the user devices network and service The context information is gathered throughout the whole IPTV delivery chain considering the user domain network provider domain and service content provider domain The proposed context aware system allows monitoring user s environment devices and networks status interpreting user s requirements and making the user s interaction with the TV system dynamic and transparent iii Personalized recommendation and selection of IPTV content based on the different context information gathered and the personalization decision taken by the context aware system different from the current recommendation approach mainly based on matching content to users preferences which in turn highly improves the users Quality of Experience QoE and enriching the offers of IPTV services

**Future Multimedia Networking** Sherali Zeadally, Eduardo Cerqueira, Marília Curado, Mikolaj Leszczuk, 2010-06-09 This book constitutes the refereed proceedings of the Future Multimedia Networking Workshop FMN 2010 held in Krakow Poland in June 2010 The 16

revised full papers presented were carefully reviewed and selected from 45 submissions The papers are organized in topical sections on quality of service QoS and quality of experience QoE management in content centric networks video quality assessment in future multimedia networking video distribution in future multimedia networking and demonstration on future multimedia networking

**Media Networks** Hassnaa Moustafa, Sherali Zeadally, 2016-04-19 A rapidly growing number of services and applications along with a dramatic shift in users consumption models have made media networks an area of increasing importance Do you know all that you need to know Supplying you with a clear understanding of the technical and deployment challenges Media Networks Architectures Applications and Standard

Wired-Wireless Multimedia Networks and Services Management Tom Pfeifer, 2009-10-15 This book constitutes the refereed proceedings of the 12th IFIP IEEE International Conference on Management of Multimedia and Mobile Networks and Services MMNS 2009 held in Venice Italy in October 2009 as part of the 5th International Week on Management of Networks and Services Manweek 2009 The 13 revised full papers presented together with 5 poster papers were carefully reviewed and selected from 37 submissions The papers are organized in topical sections on multimedia networks and systems management multimedia quality VoIP and vocal applications and peer to peer multimedia networks

**Issues in Advertising, Mass Communication, and Public Relations: 2013 Edition**, 2013-05-01 Issues in Advertising Mass Communication and Public Relations 2013 Edition is a ScholarlyBrief that delivers timely authoritative comprehensive and specialized information about Additional Research in a concise format The editors have built Issues in Advertising Mass Communication and Public Relations 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Advertising Mass Communication and Public Relations 2013 Edition has been produced by the world s leading scientists engineers analysts research institutions and companies All of the content is from peer reviewed sources and all of it is written assembled and edited by the editors at ScholarlyEditions and available exclusively from us You now have a source you can cite with authority confidence and credibility More information is available at <http://www.ScholarlyEditions.com>

*Investigation of a Hierarchical Context-aware Architecture for Rule-based Customisation of Mobile Computing Service* Zhaozong Meng, 2014

Fast and Efficient Context-Aware Services Danny Raz, Arto Tapani Juhola, Joan Serrat-Fernandez, Alex Galis, 2006-05-01 Fast and Efficient Context Aware Services gives a thorough explanation of the state of the art in Context Aware Services CAS The authors describe all major terms and components of CAS defining context and discussing the requirements of context aware applications and their use in 3rd generation services The text covers the service creation problem as well as the network technology alternatives to support these services and discusses active and programmable networks in detail It gives an insight into the practical approach followed in the CONTEXT project supplying concrete guidelines for building successful context aware services Fast and Efficient Context Aware Services Provides

comprehensive and in depth information on state of the art CAS technology Proposes a system architecture for CAS creation and delivery discussing service management and active network layers Describes the service lifecycle functional architecture covering service authoring customization invocation and assurance Explains system design considerations and details system evaluation criteria test bed requirements and evaluation results Fast and Efficient Context Aware Services is an invaluable resource for telecommunications developers researchers in academia and industry advanced students in Computer Science and Electrical Engineering telecoms operators as well as telecommunication management and operator personnel

**Context Management for Distributed and Dynamic Context-Aware Computing** Ricardo Couto Antunes da Rocha, Markus Endler, 2012-05-03 Research in context aware computing has produced a number of middleware systems for context management However development of ubiquitous context aware applications is still a challenge because most current middleware systems are still focused on isolated and static context aware environments Context aware environments are inherently dynamic as a result of occasional additions or upgrade of sensors applications or context inference mechanisms Context Management for Distributed and Dynamic Context Aware Computing proposes a novel architecture for context management based on the concept of context domains allowing applications to keep context interests across distributed context management systems The authors describe a distributed middleware that implements the aforementioned concepts without compromising scalability and efficiency of context access *Context-aware, Ubiquitous Service Discovery and Delivery for Mobile Clients* Choon-Hwa Lee, 2003 ABSTRACT Combined context attributes and CSP protocol guarantee the scalability and effectiveness of service discovery in the presence of popular services services with a very large number of instances We describe our architecture concepts and protocols and present a performance scalability study of global service discovery Service delivery takes place following the service discovery phase to complete the dynamic service acquisition process The two phases should be bridged by the client device capability information As a proof of concept prototype we developed the microJini proxy system that allows a service to be discovered by and presented to any class of target devices using a virtual thin client architecture Media Networks Hassnaa Moustafa, Sherali Zeadally, 2012-05-14 A rapidly growing number of services and applications along with a dramatic shift in users consumption models have made media networks an area of increasing importance Do you know all that you need to know Supplying you with a clear understanding of the technical and deployment challenges Media Networks Architectures Applications and Standards covers media networks basics architectures protocols standards specifications advanced audiovisual and multimedia services and future directions Focusing on video and audio visual services it provides wide scale reference on media networks and the audiovisual domain The book investigates the different network architectures along with their related protocols and standards It examines the different digital TV technologies as well as their deployment architectures Illustrating the role of network operators service providers content providers and manufacturers this timely reference is divided into three parts Presents digital TV

technologies including Open IPTV Mobile TV 3D video and content delivery networks Covers media content delivery and quality of experience QoE Examines user centricity and immersive technologies that take into account advanced services personalization immersive technologies architectures and applications e health and societal challenges The book considers emerging media content delivery architectures including Future Internet CDN Content Delivery Networks architectures and Content Centric Networks CCN approaches while examining the technical challenges and standardization efforts related to such issues It presents the Quality of Experience QoE in Future Internet Next Generation Mobile Networks and also covers the management of media audio video information in Future Internet including transport protocols and compression technologies The book concludes by describing pressing societal challenges for networked media

*A Matching Architecture for Context-aware Services* Benjamin Allen,2004

**Semantics in Adaptive and Personalized Services** Manolis Wallace, Ioannis E. Anagnostopoulos, Phivos Mylonas, Mária Bielíková, 2010-03-10

Semantics in Adaptive and Personalised Services initially strikes one as a specific and perhaps narrow domain Yet a closer examination of the term reveals much more On one hand there is the issue of semantics Nowadays this most often refers to the use of OWL RDF or some other XML based ontology description language in order to represent the entities of problem Still semantics may also very well refer to the consideration of the meanings and concepts rather than arithmetic measures regardless of the representation used On the other hand there is the issue of adaptation i e automated re configuration based on some context This could be the network and device context the application context or the user context we refer to the latter case as personalization From a different perspective there is the issue of the point of view from which to examine the topic There is the point of view of tools referring to the algorithms and software tools one can use the point of view of the methods referring to the abstract methodologies and best practices one can follow as well as the point of view of applications referring to successful and pioneering case studies that lead the way in research and innovation Or at least so we thought Based on the above reasoning the editors identified key researchers and practitioners in each of the aforementioned categories and invited them to contribute a corresponding work to this book However as the authors contributions started to arrive the editors also started to realize that although these categories participate in each chapter to different degrees none of them can ever be totally obsolete from them Moreover it seems that theory and methods are inherent in the development of tools and applications and inversely the application is also inherent in the motivation and presentation of tools and methods

*Hybrid Architecture to Support Context-Aware Systems* Maricela Bravo,2017

Any system that is said to be context aware is capable of monitoring continuously the surrounding environment that is capable of prompt reaction to events and changing conditions of the environment The main objective of a context aware system is to be continuously recognizing the state of the environment and the users present in order to adjust the environment to an ideal state and to provide personalized information and services to users considering the user profile In this chapter we describe an architecture that relies on the

incorporation of intelligent multi agent systems MAS sensor networks mobile sensors actuators Web services and ontologies We describe the interaction of these technologies into the architecture aiming at facilitating the construction of context aware systems

**Content-aware IPTV Delivery Networks Over Enhanced Peer-service Area Architecture** Suliman Mohamed Ahmed Gaber,2014 [Semantic-Based Context-Aware Service Discovery in Pervasive-Computing Environments](#) Abdur-Rahman El-Sayed,2007 **Supporting the Context Life Cycle in Service-oriented Computing** Oscar Jair Cabrera Bejar,2017

Current software community players like academy and industry have been changing the traditional paradigms of software engineering towards context awareness and distributed computing Nowadays service oriented computing and context aware computing are two emerging paradigms that are changing the way of designing developing providing and consuming software services Whilst service oriented computing is based on service oriented architectures and it is focused on modelling functionality and providing flexible software services context aware computing is based on the context life cycle and it allows processing and changing the behaviour of such services given certain context information The synergy between both paradigms is a core research topic in ubiquitous and pervasive computing widely applied to the Internet of Things and Smart Cities In the present PhD thesis we exploit this synergy by focusing on context aware computing from the perspective of service oriented computing which is also known as context aware service oriented computing Such research topic involves the management of context within different essential phases of the context life cycle that show how the context data moves from phase to phase in software services within the paradigm of the service oriented computing Hence the work done in this thesis involves different components and processes that have the aim to accomplish the context life cycle namely the acquisition modelling reasoning and dissemination of the context in service oriented computing Particularly we make an effort to provide both a context ontology for context modelling context reasoning and high level context dissemination and a context aware monitoring architecture for context acquisition and low level context dissemination Such work of the thesis has been motivated for contributing in the solution of different issues mainly identified in the phases of context modelling and context acquisition that are a strong basis of the context life cycle Firstly in the context modelling we mainly identified the proliferation of several context models presenting some problems about reusability extensibility and adaptation Secondly in the context acquisition we mainly identified that existing monitoring infrastructures are not prepared to support the constant changes in their context and the context of other entities including the services that they are supervising which provoke the provisioning of context data that is not reliable In summary this thesis explores three big research questions 1 What context data to acquire and to model This involves the study of the current state of the art of context models specifically which are these proposals and how are they related what are their structural characteristics what context information is the most addressed and what are their most consolidated definitions 2 How to model context data This involves the development of a three level context ontology with the aim of improving the reusability extensibility and

adaptation capabilities of existing context models 3 How to acquire context data This involves the development of a context aware monitoring architecture that can be easily configured adapted or evolved according to the constant changes of the context The context model and the architecture proposed in this PhD thesis are validated through different scenarios and use cases highlighting their integration in SUPERSEDE [www.supersede.eu](http://www.supersede.eu) a European project in the H2020 program for fulfilling some requirements of data acquisition and management demonstrating that the context life cycle is supported

**Enabling Context-Aware Web Services** Quan Z. Sheng, Jian Yu, Schahram Dustdar, 2017-06-14 With recent advances in radio frequency identification RFID technology sensor networks and enhanced Web services the original World Wide Web is continuing its evolution into what is being called the Web of Things and Services Such a Web will support an ultimately interactive environment where everyday physical objects such as buildings sidewalks and commodities become recognizable addressable and even controllable via a mostly ubiquitous Web This integration of the physical and virtual worlds will fundamentally impact the way we live and in doing so afford tremendous new business opportunities with great human benefit such as support services to keep the elderly independent and intelligent traffic management that will cut wasted hours from every day More efficient supply chains improved environmental monitoring better access to health services the list is endless Enabling Context Aware Web Services Methods Architectures and Technologies compiles the newest developments and advances driving this new age forward With contributions from leading researchers across the world this pioneering work bridges the gap between context awareness and Web services A comprehensive presentation of what is already accomplished and what is possible the chapters of this book are systematically organized into three major sections Methods focuses on the principle of context awareness in Web services and various ways to model those services at the specification level Architectures details the infrastructures frameworks and standards needed to build context aware Web services Technologies presents a cornucopia of techniques adapted from once isolated research areas including semantic Web database and artificial intelligence development as well as formal methods being employed to improve the development of context aware Web services Researchers engineers entrepreneurs and educators across any number of fields will find new ideas worth considering jumping off points for developing improved software and applications and seeds for business ventures that efficiently deliver needed products information or services The possibilities are as limitless as we dare to imagine

**Reusable, Semantic, and Context-aware Micro-architecture** Susanna Pantsar-Syväniemi, Valtion teknillinen tutkimuskeskus, 2013

**An Intelligent Broker Architecture for Pervasive Context-aware Systems** Harry Lik Chen, 2004

*Context Aware Service Oriented Computing in Mobile Ad Hoc Networks* Radu Handorean, 2005

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