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# A Context Aware Architecture For Iptv Services Personalization

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An Overview of Context-Aware Information Systems

Digital Information and Communication Technology and Its Applications

An Intelligent Broker Architecture for Pervasive Context-aware Systems

Encyclopedia of Human Computer Interaction

A Context-aware Healthcare Architecture For The Elderly

Mobile Sensors and Context-Aware Computing

Location- and Context-Awareness

Mobile Human-Computer Interaction - Mobile HCI 2004

Context-Aware Mobile and Ubiquitous Computing for Enhanced Usability: Adaptive Technologies and Applications

FAÇADE

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*A Context Aware  
Architecture For Iptv  
Services Personalization*

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## **VICTORIA RIVERS**

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An Overview of Context-Aware Information Systems Springer

This book contributes to illustrating the methodological and technological issues of data management in Pervasive Systems by using the DataBenc project as the running case study for a variety of

research contributions: sensor data management, user-originated data operation and reasoning, multimedia data management, data analytics and reasoning for event detection and decision making, context modelling and control, automatic data and service tailoring for personalization and recommendation. The book is organized into the following main parts: i) multimedia information management; ii)

sensor data streams and storage; iii) social networks as information sources; iv) context awareness and personalization. The case study is used throughout the book as a reference example.

*Digital Information and Communication Technology and Its Applications* Springer  
 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.

*An Intelligent Broker Architecture for Pervasive Context-aware Systems*  
Springer

This book introduces context-aware computing, providing definitions, categories, characteristics, and context awareness itself and discussing its applications with a particular focus on smart learning environments. It also examines the elements of a context-aware system, including acquisition, modelling, reasoning, and distribution of

context. It also reviews applications of context-aware computing – both past and present – to offer readers the knowledge needed to critically analyse how context awareness can be put to use. It is particularly to those new to the subject area who are interested in learning how to develop context-aware computing-oriented applications, as well as postgraduates and researchers in computer engineering, communications engineering related areas of information technology (IT). Further it provides practical know-how for professionals working in IT support and technology, consultants and business decision-makers and those working in the medical, human, and social sciences. [Encyclopedia of Human Computer Interaction](#) IGI Global

The concept of aware systems is among the most exciting trends in computing today, fueled by recent developments in pervasive computing, including new computers worn by users, embedded devices, smart appliances, sensors, and varieties of wireless networking technology. *Context-Aware Pervasive Systems: The Architecture of a New Breed of Applications* introduces a diverse set of application areas and provides blueprints for building context-aware behavior into applications. Reviewing the anatomy of context-aware pervasive applications, this resource covers abstract architecture. It examines mobile services, appliances, smart devices, software agents, electronic communication, sensor networks, security frameworks, and intelligent

software agents. The book also discusses the use of context awareness for communication among people, devices, and software agents and how sensors can be aware of their own situations. Exploring the use of physical context for controlling and enhancing security in pervasive computing environments, this guide addresses mirror worlds and elucidates design perspectives based on a declarative programming language paradigm. This carefully paced volume presents a timely and relevant introduction to the emergence of context-aware systems and brings together architectures and principles of context-aware computing in one source.

*A Context-aware Healthcare Architecture For The Elderly* CRC Press

Bringing together an extensively researched area with an emerging research issue, Context-Aware Computing and Self-Managing Systems presents the core contributions of context-aware computing in the development of self-managing systems, including devices, applications, middleware, and networks. The expert contributors reveal the usefulness of context-aware computing in developing autonomous systems that have practical application in the real world. The first chapter of the book identifies features that are common to both context-aware computing and autonomous computing. It offers a basic definition of context-awareness, covers fundamental aspects of self-managing systems, and provides several examples of context information

and self-managing systems. Subsequent chapters on context-awareness demonstrate how a context can be employed to make systems smart, how a context can be captured and represented, and how dynamic binding of context sources can be possible. The chapters on self-management illustrate the need for "implicit knowledge" to develop fault-tolerant and self-protective systems. They also present a higher-level vision of future large-scale networks. Through various examples, this book shows how context-aware computing can be used in many self-managing systems. It enables researchers of context-aware computing to identify potential applications in the area of autonomous computing. The text also supports researchers of

autonomous computing in defining, modeling, and capturing dynamic aspects of self-managing systems. Mobile Sensors and Context-Aware Computing kassel university press GmbH  
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. Location- and Context-Awareness Springer Science & Business Media  
We are rapidly heading towards a world in which the computing infrastructure will contain billions of devices, which will interact with other computing/communications devices that are carried or worn by users as they go through their daily routines. Such devices will provide data access to mobile users as they move within buildings, cities, or across the globe. This new infrastructure presents tremendous



challenges for data management technology, including: huge scale; variable and intermittent connectivity; location and context-aware applications; bandwidth, power, and device size limitations; and multimedia data delivery across hybrid networks and systems. Traditional data management technologies such as query processing, transaction management, workflow, business process management, and metadata management must all be reevaluated in this emerging environment. Furthermore, nontraditional issues such as the semantics of mobile data, location-dependent querying, broadcast and multicast delivery, and caching/prefetching techniques must all be addressed. The ability to track people

as they move about their daily tasks raises serious issues of security and privacy. This conference is the fourth in the Mobile Data Management series, focusing on the challenges and opportunities for the management of data in mobile, pervasive, and wearable computing. MDM 2000 and 2001 were in Hong Kong and MDM 2002 was in Singapore. Eighty-seven papers were submitted to the conference from 23 countries and were subject to a rigorous review procedure. Every paper had three or four independent reviews. Twenty-one full papers and 15 short papers from both academia and industry were selected for publication in this volume of proceedings.

*Mobile Human-Computer Interaction - Mobile HCI 2004* Morgan Kaufmann

The term "smart city" refers to an instrumented, interconnected, and intelligent city built by leveraging Information and Communication Technologies (ICT). In such a city, a combination of embedded hardware and software involving sensors, actuators, and a host of mobile devices and wearables that are connected to the Internet of Things (IoT) networks will sense data in different contexts and automatically drive desired adaptations through actuators. Through adaptations, city planners, professionals, and researchers aim to optimize resource consumption and cost of providing services while improving the quality of life for the ever increasing urban population. To fully realize this goal, a context-aware and data-centric

inference is a necessity. A system is said to be context-aware if it is able to adapt its operations to the current context without explicit user intervention. This thesis proposes a generic context-aware system architecture for development of smart city applications. The proposed architecture puts special emphasis on privacy and security, incorporating mechanisms to protect the system and sensitive information at each layer of the architecture. Furthermore, this architecture integrates with a reasoning component, whose inference engine can be driven by logic or other formalisms. A prototype implementation and a case study done in this thesis indicate the practical merits of the proposed architecture and provide a proof of concept.

*Context-Aware Mobile and Ubiquitous Computing for Enhanced Usability: Adaptive Technologies and Applications*  
IntechOpen

In the existing literature on recommender systems, it is difficult to find an architecture for large-scale implementation. Often, the architectures proposed in papers are specific to an algorithm implementation or a domain. Thus, there is no clear architectural starting point for a new recommender system. This paper presents an architecture blueprint for a context-aware recommender system that provides scalability, availability, and security for its users. The architecture also contributes the dynamic ability to switch between single-device (offline), client-server (online), and fully

distributed implementations. From this blueprint, a new recommender system could be built with minimal design and implementation effort regardless of the application.

**FAÇADE** Springer

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's 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.

#### A Framework for Developing Context-Aware Systems Context-Aware Pervasive Systems

Context-awareness is one of the drivers of the ubiquitous computing paradigm. Well-designed context modeling and context retrieval approaches are key prerequisites in any context-aware system. Location is one of the primary aspects of all major context models — together with time, identity and activity. From the technical side, sensing, fusing and distributing location and other context information is as important as providing

context-awareness to applications and services in pervasive systems. The materials summarized in this volume were selected for the 1st International Workshop on Location- and Context-Awareness (LoCA 2005) held in cooperation with the 3rd International Conference on Pervasive Computing 2005. The workshop was organized by the Institute of Communications and Navigation of the German Aerospace Center (DLR) in Oberpfaffenhofen, and the Mobile and Distributed Systems Group of the University of Munich. During the workshop, novel positioning algorithms and location sensing techniques were discussed, comprising not only enhancements of singular systems, like positioning in GSM or WLAN, but also hybrid technologies, such as the

integration of global satellite systems with inertial positioning. Furthermore, improvements in sensor technology, as well as the integration and fusion of sensors, were addressed both on a theoretical and on an implementation level. Personal and confidential data, such as location data of users, have profound implications for personal information privacy. Thus privacy protection, privacy-oriented location-aware systems, and how privacy affects the feasibility and usefulness of systems were also addressed in the workshop. Generic System Architecture for Context-aware, Distributed Recommendation Springer Science & Business Media

The cellular phone network has been increasing rapidly during the last years. For many people the mobile phone has

become an every day gadget with a wide performance and functional range. The usage of technologies like GPRS, HSCSD, EDGE and UMTS as well as the bandwidth of networks and consequently the connectivity of the phones has also increased persistently. Coming along with that, three technologies, which are ubiquitous or pervasive computing, mobile and wireless networks and location-based technologies, are making rapid progress. The aim of this book is to offer an architecture for a context-aware user interface in the intersection of the three technologies mentioned above. The system should work with a minimum of special hardware requirement. Not to overload the user with information, the user interface should be adaptable, context-aware and location-based. The

contextdata should remain extendible and adaptable.

Context-Aware Computing and Self-Managing Systems CRC Press

Mobile Sensors and Context-Aware Computing is a useful guide that explains how hardware, software, sensors, and operating systems converge to create a new generation of context-aware mobile applications. This cohesive guide to the mobile computing landscape demonstrates innovative mobile and sensor solutions for platforms that deliver enhanced, personalized user experiences, with examples including the fast-growing domains of mobile health and vehicular networking. Users will learn how the convergence of mobile and sensors facilitates cyber-physical systems and

the Internet of Things, and how applications which directly interact with the physical world are becoming more and more compatible. The authors cover both the platform components and key issues of security, privacy, power management, and wireless interaction with other systems. Shows how sensor validation, calibration, and integration impact application design and power management Explains specific implementations for pervasive and context-aware computing, such as navigation and timing Demonstrates how mobile applications can satisfy usability concerns, such as know me, free me, link me, and express me Covers a broad range of application areas, including ad-hoc networking, gaming, and photography

**A Context Model, Design Tool and Architecture for Context-aware Systems Design** John Wiley & Sons

Esta enciclopedia presenta numerosas experiencias y discernimientos de profesionales de todo el mundo sobre discusiones y perspectivas de la la interacción hombre-computadoras

*Context Awareness for Proactive Systems* John Wiley & Sons

Context-Aware Pervasive SystemsCRC Press

**Enabling Context-Aware Web Services** IGI Global

This book constitutes the thoroughly refereed proceedings of the 6th International ICST Conference, SecureComm 2010, held in Singapore in September 2010. The 28 revised full papers were carefully reviewed and

selected from 112 submissions. They are organized in topical sections on malware and email security, anonymity and privacy, wireless security, systems security, network security, and security protocols.

Hybrid Architecture to Support Context-Aware Systems Springer

Research Paper (postgraduate) from the year 2009 in the subject Information Management, grade: 2:2, The University of Liverpool, course: MSc in Information Technology, language: English, abstract:

The ever-growing incorporation of information technology in day-to-day applications presents new opportunities to develop computer systems that can be aware of the context in which they are operating. Such computer-systems can be inherently more responsive to the



expectations of their users. Context-aware systems offer developers and programmers exciting new prospects to gather contextual data and adapt the behavior of their dynamic systems according to user expectations. In conjunction with mobile devices, such mechanisms can be extremely valuable in increasing the usability of information systems. However, it is now accepted widely that the efforts to adapt the usability and capability of the desktop PC in to the mobile environment are limited in their scope. The debate in present literature seems to focus in particular on the trade-offs and compromises between the performance of such systems in theoretical or laboratory environments, and the actual results when tested in the field. This essay will aim to critically

evaluate the success of making context-aware information systems into a feasible reality.

### **Mobile Ad-Hoc Networks** Springer Nature

Developing complex sensing infrastructures, perceptual components, situation modelling components and context-aware services constitute extremely demanding research tasks. Given the tremendous effort required to setup and develop such infrastructures, we strongly believe that a framework ensuring their reusability in the scope of a range of services is of high value. This is not the case with most ubiquitous, pervasive and contextaware systems, which tend to be very tightly coupled to the underlying sensing infrastructure and middleware (Smailagic & Siewiorek,

2002; Ryan et al., 1998). It is however expedient in projects like CHIL, where a number of service developers concentrate on radically different services.

### Security and Privacy in Communication Networks VDM Publishing

The recent convergence of ubiquitous computing and context-aware computing has seen a considerable rise in interest that exploit aspects of the contextual environment to enhance implicit user interaction, offer services, present information, tailor application behavior or trigger adaptation. However, as a result of the lack of generic mechanisms for supporting context-awareness, context-aware applications remain very difficult to build and developers must deal with a wide range of issues related

to representing, sensing, aggregating, storing, querying and reasoning of context. In order to remedy this situation, there is a need for better understanding of the design process associated with context-aware applications, architectural support for the entire context processing flow, and improved programming abstractions that ease the prototyping of applications. This research in context-aware computing has focused on the architectural support for context-aware application development. This dissertation presents a set of requirements for context-aware applications, based on which we designed and implemented our architectural support, including an ontology-based context model, a context-aware architecture (namely Context Aware

Explorer) and a set of programming abstractions. This research reported here is investigating : how context can be acquired, ditributed, and used and how it changes human computer interaction in Ubiquitous Computing. The Context Aware Explorer includes common steps required to build context applications (acquisition, interpretation, presentation, reasoning and application), thus it ensures the adaptation situated at the level of User Environment Interaction. The case study, Assistive Environment, validates our work, and illustrates, in concrete form, the process and issues involved in the design of context-aware software. Finally, the research presents an overview of how Ubiquitous Computing systems can be evaluated. Different techniques are

assessed, and the concept of probing users and developers with prototypes is presented.

*Context-Aware Communication and Computing: Applications for Smart Environment* CRC Press

In order to provide dependable healthcare services for the elderly, it is necessary to have a patient-centric healthcare architecture in which context-aware healthcare services can be provided at any time and anywhere. Such a service automation has the virtues to overcome the disadvantages arising from the disabilities that are inherent in the elderly population, physically challenged, and those who live in remote areas. In order that patients trust the healthcare services provided by the system, the creation of

healthcare services must be founded on accurate personalized health model of patients, and must be delivered by experts through dependable medical devices and secure channels. Motivated by this goal, this thesis proposes a layered health model that can be personalized to meet the privacy requirements of a patient, and

constructs a context-aware healthcare architecture in which healthcare services for each patient is specialized based on personalized health models, health contexts, and emerging health situations. A prototype implementation of the architecture is validated for Hypertension and Dementia case studies.

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