

An Integrated Embedded System Architecture for In-Vehicle Telematics and Infotainment System

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Abstract—In this study, an integrated embedded system architecture for in-vehicle telematics and infotainment system (IVTIS) is proposed. A wireless communication network is utilized to provide the location-based and emergency services to the in-vehicle users, while the in-vehicle network is established to provide applications in communications and entertainment. The prototype of the system is demonstrated as well.

I. INTRODUCTION

Traditional on-board embedded electronics systems that performing various operational functions, such as anti-lock brake, cruise control, climate control, etc... are already utilized in most of today's modern vehicle [1, 2]. Recent trend shows that more and more in-vehicle embedded system are focusing on providing better functionalities, robust operation and higher degree of convenience to the in-vehicle users. Advance of wireless communication and information technology in the digital era has promoted new killer applications to the in-vehicle drivers and occupants. Among these advanced killer applications, services provided in the area of the telematics and information/entertainment have attracted most attention in the automotive industry.

A. Telematics Service

Telematics were considered as the system that provides location-based services for mobile vehicles over wireless communication networks. Typical example of automotive telematics services are emergency call (or *soscall*) systems, which instantly connects vehicle users to a service center for emergency assistance or roadside services while automatically reporting the vehicle's position [3]. Normally the emergency call system requires a wireless transceiver for voice and data communication and an on-board GPS (Global Positioning System) receiver for positioning. Telematics system was considered as the core technology in an Intelligent Transportation System (ITS) and applications of telematics services to ITS have been proposed recently. An integrated positioning system were developed to realize an efficient and cost-effective GPS based electronic road pricing system by He, Law, and Ling [4]. In [5], the importance of "situational awareness" in conveying the state of the automobile to other parties across a communication link was addressed and a novel

interactivity environment for integrated intelligent transportation and telematic systems was proposed.

B. Information/Entertainment Services

As more and more people are traveling with Internet-enabled information appliances (IA) such as notebook PCs, PDAs, mobile phones, digital cameras, MP3 players, etc.... there is a desire to connect to the Internet permanently from anywhere, at anytime, without any disruption of service, particularly for those people who spend a significant amount of time in mass transportation systems in weekdays or in their own vehicle during weekend [6]. In order to access the Internet, an in-vehicle local area network or personal area network environment must be established, and the in-vehicle embedded system shall become the mobile gateway for these Internet-enabled IA. Ernst, Uehara, and Mitsuya [6], detailed the networking requirements for connecting vehicles to the Internet by displacing an entire IPv6 network and network mobility support in the InternetCAR project. In [7], the software and hardware requirements in designing human-computer interface for an in-vehicle information system were proposed such that the safety of the in-vehicle drivers is discussed. A distributed service-based architecture [8], based on the Jini middleware technology, were proposed to provide fault tolerant application services to remote in-vehicle computers and mobile devices, such as Wifi-enabled PDA and GPRS phone. It seems that research trend has shifted to providing an *infotainment server* system for the in-vehicle users such that the network-enabled IA can access the information from the in-vehicle network and also obtain the entertainment services from the entertainment server.

An integrated architecture for in-vehicle telematics and infotainment system (IVTIS) can provide the in-vehicle users value-added services compared with traditional telematics only systems. Thus, an in-vehicle telematics and infotainment system utilizing embedded system with power embedded operation system is proposed in this paper. The packet radio network was adopted to provide the telematics service to the in-vehicle users. And an in-vehicle network environment is established such that a client/server type of in-vehicle infotainment system can be developed. The detailed design and development of the IVTIS will be described as below.

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the Internet of Everything provides links not only among things but also data people and business processes The evolution of current sensor and device networks with strong interactions between people and social environments will have a dramatic impact on everything from city planning first responders the military and health Such a shared ecosystem will allow for the interaction between data sensor inputs and heterogeneous systems Semantics is a fundamental component of this since semantic technologies are able to provide the necessary bridge between different data representations and to solve terminology incongruence Integrating data from distributed devices sensor networks social networks and biomedical instruments requires first of all the systematization of the current state of the art in such fields Then it is necessary to identify a common action thread to actually merge and homogenize standards and techniques applied in such a heterogeneous field The exact requirements of an Internet of Everything environment need to be precisely identified and formally expressed and finally the role of modern computing paradigms such as Cloud and Fog Computing needs to be assessed with respect to the requirements expressed by an Internet of Everything ecosystem

Cyber Physical Systems
Anupam Baliyan,Kuldeep Singh Kaswan,Naresh Kumar,Kamal Upreti,Ramani Kannan,2023-01-11 Cyber Physical System CPS is an integration of computation networking and physical processes the combination of several systems of different nature whose main purpose is to control a physical process and through feedback adapt itself to new conditions in real time Cyber Physical System Concepts and Applications includes an in depth coverage of the latest models and theories that unify perspectives It expresses the interacting dynamics of the computational and physical components of a system in a dynamic environment Covers automatic application of software countermeasures against physical attacks and impact of cyber physical system on industry 4.0 Explains how formal models provide mathematical abstractions to manage the complexity of a system design Offers a rigorous and comprehensive introduction to the principles of design specification modelling and analysis of cyber physical systems Discusses the multiple domains where Cyber Physical system has a vital impact and provides knowledge about different models that provide mathematical abstractions to manage the complexity of a system design Provides the rapidly expanding field of cyber physical systems with a long needed foundational text by an established authority This book is primarily aimed at advanced undergraduates graduates of computer science Engineers will also find this book useful

Cyber-Physical Systems: Architecture, Security and Application Song Guo,Deze Zeng,2018-09-20 This book provides an overview of recent innovations and achievements in the broad areas of cyber physical systems CPS including architecture networking systems applications security and privacy The book discusses various new CPS technologies from diverse aspects to enable higher level of innovation towards intelligent life The book provides insight to the future integration coordination and interaction between the physical world the information world and human beings The book features contributions from renowned researchers and engineers who discuss key issues from various perspectives presenting opinions and recent CPS related achievements Investigates how to advance the development of cyber physical

systems Provides a joint consideration of other newly emerged technologies and concepts in relation to CPS like cloud computing big data fog computing and crowd sourcing Includes topics related to CPS such as architecture system networking application algorithm security and privacy *Wireless Power/Data Transfer, Energy Harvesting System Design* Byunghun Lee,2021-08-31 This book focuses on emerging wireless power data and energy harvesting technologies and highlights their fundamental requirements followed by recent advancements It provides a various technical overview and analysis of key techniques for wireless power data and energy harvesting system design The state of the art system introduced in this book will benefit designers looking to develop wireless power transfer and energy harvesting technologies in a variety of fields such as wearable implantable devices home appliances and electric vehicles Parallel Computing Hits the Power Wall Arthur Francisco Lorenzon,Antonio Carlos Schneider Beck Filho,2019-11-05 This book describes several approaches to adaptability that are applied for the optimization of parallel applications such as thread level parallelism exploitation and dynamic voltage and frequency scaling on multicore systems This book explains how software developers can apply a novel technique to adapt the number of threads at runtime without any modification in the source code nor recompilation This book is useful for software developers in general since it offers realistic examples throughout to demonstrate various techniques presented Proceedings of the International Conference on Information Engineering, Management and Security 2015 Vignesh Ramakrishnan,Prasanth Venugopal,Tuhin Mukherjee,2015-08-13 ICIEMS 2015 is the conference aim is to provide a platform for researchers engineers academicians as well as industrial professionals from all over the world to present their research results and development activities in Engineering Technology Industrial Engineering Application Level Security and Management Science This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face to establish business or research relations and to find global partners for future collaboration Encyclopedia of E-Health and Telemedicine Cruz-Cunha, Maria Manuela,Miranda, Isabel Maria,Martinho, Ricardo,Rijo, Rui,2016-05-04 Patients and medical professionals alike are slowly growing into the digital advances that are revolutionizing the ways that medical records are maintained in addition to the delivery of healthcare services As technology continues to advance so do the applications of technological innovation within the healthcare sector The Encyclopedia of E Health and Telemedicine is an authoritative reference source featuring emerging technological developments and solutions within the field of medicine Emphasizing critical research based articles on digital trends including big data mobile applications electronic records management and data privacy and how these trends are being applied within the healthcare sector this encyclopedia is a critical addition to academic and medical libraries and meets the research needs of healthcare professionals researchers and medical students **Quantum Computing and Artificial Intelligence in Logistics and Supply Chain Management** Pushan Kumar Dutta,Pronaya Bhattacharya,Jai Prakash Verma,Ashok Chopra,Neel Kanth Kundu,Khursheed Aurangzeb,2025-07-25 This book discusses the transformative potential

of quantum computing in reshaping the landscape of supply chain management It bridges the gap between these two dynamic fields offering a comprehensive guide to the application of quantum principles in supply chain operations Through detailed examples and case studies it highlights how quantum computing can tackle industry specific issues such as managing global supply chain disruptions enhancing production schedules and enabling real time decision making This book is for researchers professionals and technologists interested in quantum computing and supply chain practices Features Provides an in depth analysis of quantum computing technologies and their capacity to solve complex optimisation problems at scales unimaginable with traditional computing Examines the impact of quantum computing on manufacturing and logistics with a focus on sectors such as automotive and aerospace Real world scenarios illustrate how quantum solutions can streamline operations and drive efficiency Explores quantum algorithms and their use in addressing challenges like route optimisation inventory management and demand forecasting offering strategies to reduce costs and improve resilience Considers the current limitations ethical implications and the path to widespread adoption of quantum computing in supply chains emphasising the need for interdisciplinary collaboration

Technological Innovation for Cloud-Based Engineering Systems Luis M. Camarinha-Matos, Thais A. Baldissera, Giovanni Di Orio, Francisco Marques, 2015-03-27 This book constitutes the refereed proceedings of the 6th IFIP WG 5.5 SOCOLNET Doctoral Conference on Computing Electrical and Industrial Systems DoCEIS 2015 held in Costa de Caparica Portugal in April 2015 The 54 revised full papers were carefully reviewed and selected from 119 submissions The papers present selected results produced in engineering doctoral programs and focus on development and application of cloud based engineering systems Research results and ongoing work are presented illustrated and discussed in the following areas collaborative networks cloud based manufacturing reconfigurable manufacturing distributed computing and embedded systems perception and signal processing healthcare smart monitoring systems and renewable energy and energy related management decision support simulation and power conversion

Cryptography Riccardo Bernardini, 2021-08-18 Despite being 2000 years old cryptography is still a very active field of research New needs and application fields like privacy the Internet of Things IoT physically unclonable functions PUFs post quantum cryptography and quantum key distribution will keep fueling the work in this field This book discusses quantum cryptography lightweight cryptography for IoT PUFs cryptanalysis and more It provides a snapshot of some recent research results in the field providing readers with some useful tools and stimulating new ideas and applications for future investigation

High-level Estimation and Exploration of Reliability for Multi-Processor System-on-Chip Zheng Wang, Anupam Chattopadhyay, 2017-06-23 This book introduces a novel framework for accurately modeling the errors in nanoscale CMOS technology and developing a smooth tool flow at high level design abstractions to estimate and mitigate the effects of errors The book presents novel techniques for high level fault simulation and reliability estimation as well as architecture level and system level fault tolerant designs It also presents a survey of state of the art problems and solutions

offering insights into reliability issues in digital design and their cross layer countermeasures Advances in Computational Intelligence and Communication Manolo Dulva Hina, Amar Ramdane-Cherif, Rafik Zitouni, Assia Soukane, 2022-12-13 This book presents select papers from the 2nd EAI International Conference on Computational Intelligence and Communications CCom 2021 The papers reveal recent advances in the broader domains of Computational Intelligence including 1 automation control and intelligent transportation system 2 big data Internet of Things and smart cities 3 wireless communication systems and cyber security and 4 human brain computer interfaces and image and pattern recognition The book demonstrates complex real world problems in which mathematical or traditional modelling are not the preferred solution and posits alternative solutions This collection of applications demonstrates the important advances in computational intelligence The chapters present various ideas that will benefit researchers graduate students and engineers in this domain **CAD for Hardware Security** Farimah Farahmandi, M. Sazadur Rahman, Sree Ranjani Rajendran, Mark Tehranipoor, 2023-05-11 This book provides an overview of current hardware security problems and highlights how these issues can be efficiently addressed using computer aided design CAD tools Authors are from CAD developers IP developers SOC designers as well as SoC verification experts Readers will gain a comprehensive understanding of SoC security vulnerabilities and how to overcome them through an efficient combination of proactive countermeasures and a wide variety of CAD solutions

Information Technology - New Generations Shahram Latifi, 2017-07-15 This volume presents a collection of peer reviewed scientific articles from the 14th International Conference on Information Technology New Generations held at the University of Nevada at Las Vegas on April 10 12 at Tuscany Suites Hotel in Las Vegas The Book of Chapters addresses critical areas of information technology including web technology communications computing architectures software engineering security and data mining *Proceedings of IAC-EIaT 2014* collective of authors, 2014-12-02 Conference proceedings International Academic Conference on Engineering Internet and Technology in Prague 2014 IAC EIaT 2014 in Prague Friday Saturday December 12 13 2014 *Hardware Security* Mark Tehranipoor, Kimia Zamiri Azar, Navid Asadizanjani, Fahim Rahman, Hadi Mardani Kamali, Farimah Farahmandi, 2024-06-11 This book provides a look into the future of hardware and microelectronics security with an emphasis on potential directions in security aware design security verification and validation building trusted execution environments and physical assurance The book emphasizes some critical questions that must be answered in the domain of hardware and microelectronics security in the next 5 10 years i The notion of security must be migrated from IP level to system level ii What would be the future of IP and IC protection against emerging threats iii How security solutions could be migrated expanded from SoC level to SiP level iv the advances in power side channel analysis with emphasis on post quantum cryptography algorithms v how to enable digital twin for secure semiconductor lifecycle management and vi how physical assurance will look like with considerations of emerging technologies The main aim of this book is to serve as a comprehensive and concise roadmap for new learners and educators

navigating the evolving research directions in the domain of hardware and microelectronic securities Overall throughout 11 chapters the book provides numerous frameworks countermeasures security evaluations and roadmaps for the future of hardware security

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