

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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Table of Contents Recent Ieee Papers On Embedded System 23

1. Understanding the eBook Recent Ieee Papers On Embedded System 23
 - The Rise of Digital Reading Recent Ieee Papers On Embedded System 23
 - Advantages of eBooks Over Traditional Books
2. Identifying Recent Ieee Papers On Embedded System 23
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Recent Ieee Papers On Embedded System 23
 - User-Friendly Interface
4. Exploring eBook Recommendations from Recent Ieee Papers On Embedded System 23

- Personalized Recommendations
- Recent Ieee Papers On Embedded System 23 User Reviews and Ratings
- Recent Ieee Papers On Embedded System 23 and Bestseller Lists
- 5. Accessing Recent Ieee Papers On Embedded System 23 Free and Paid eBooks
 - Recent Ieee Papers On Embedded System 23 Public Domain eBooks
 - Recent Ieee Papers On Embedded System 23 eBook Subscription Services
 - Recent Ieee Papers On Embedded System 23 Budget-Friendly Options
- 6. Navigating Recent Ieee Papers On Embedded System 23 eBook Formats
 - ePub, PDF, MOBI, and More
 - Recent Ieee Papers On Embedded System 23 Compatibility with Devices
 - Recent Ieee Papers On Embedded System 23 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Recent Ieee Papers On Embedded System 23
 - Highlighting and Note-Taking Recent Ieee Papers On Embedded System 23
 - Interactive Elements Recent Ieee Papers On Embedded System 23
- 8. Staying Engaged with Recent Ieee Papers On Embedded System 23
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Recent Ieee Papers On Embedded System 23
- 9. Balancing eBooks and Physical Books Recent Ieee Papers On Embedded System 23
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Recent Ieee Papers On Embedded System 23
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Recent Ieee Papers On Embedded System 23
 - Setting Reading Goals Recent Ieee Papers On Embedded System 23
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Recent Ieee Papers On Embedded System 23

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 - Distinguishing Credible Sources
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