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Springer LNCS 4147

Springer Lecture Notes in Computer Science 4147: Automotive Software - Connected Services in Mobile Networks Manual

First Automotive Software Workshop, ASWSD 2004, Revised Selected Papers

1. INTRODUCTION AND OVERVIEW

This volume, **Lecture Notes in Computer Science 4147**, presents the revised selected papers from the **First Automotive Software Workshop (ASWSD 2004)**, held in San Diego, CA, USA, from January 10-12, 2004. It addresses the evolving landscape of software development within the automotive domain, particularly focusing on the integration of software-connected services in mobile networks.

The automotive industry is undergoing a significant transformation driven by software, which now underpins nearly all safety-critical and comfort functions. This publication highlights the increasing complexity of automotive software systems, where innovations are predominantly software-enabled. Modern vehicles feature numerous electronic control units (ECUs) and interconnected network platforms supporting hundreds of software functions.

Key challenges discussed include managing the intricate dependencies between safety-critical and comfort functions, and the dramatic shift towards distributed software solutions that interact within and beyond vehicle boundaries, facilitated by advancements in wired and wireless networking infrastructures.

2. KEY TOPICS COVERED

- Software development for the automotive domain.
- Integration of software-connected services.
- Mobile network applications in automotive systems.
- Management of complexity in automotive software.
- Dependencies between safety-critical and comfort functions.
- Interconnection between cars, backend services, and personal devices.
- Distributed software solutions in automotive environments.

3. EDITORIAL TEAM

This volume was edited by:

Manfred Broy (Editor)

Ingolf Krüger (Editor)

Michael Meisinger (Editor)

Their collective expertise guided the selection and revision of papers presented at the workshop.

4. PUBLICATION INFORMATION

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5. INTENDED AUDIENCE

This publication is intended for researchers, academics, software engineers, and professionals involved in automotive software development, mobile networking, and connected services. It serves as a valuable resource for understanding the complexities and advancements in these interdisciplinary fields.

6. BOOK COVER

Manfred Broy
Ingolf H. Krüger
Michael Meisinger (Eds.)

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Ingolf H. Krüger, Michael Meisinger), and the Springer logo. The cover design includes a grey and maroon color scheme with "LNCS 4147" on the spine.



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