



# List of Papers

## Architecture and Software Considerations

2008-01-0478	Membership Middleware for Dependable and Cost-Effective X-by-Wire Systems
2008-01-0113	Modularisation of Safety & Control for X-By-Wire Multiapplication-Platforms
2007-01-1617	A Prototype Distributed Architecture for Safety Critical Automotive Systems
2007-01-1483	Satisfying Design Constraints for Automotive Safety-Critical Systems
2006-01-0115	Powernet Simulation as a Tool for the Development of a Highly Reliable Energy Supply for Safety Relevant Control Systems in X-By-Wire Vessels in the EU SPARC Project
2005-01-0322	A Fault-Tolerant Process Core Architecture for Safety-Critical Automotive Applications
2004-01-2926	Digital By-Wire Replaces Mechanical Systems in Cars
2004-01-0708	Development of Safety-Critical Software Using Automatic Code Generation
2004-01-0205	Safe-by-Wire: The Leading Edge in Vehicle Airbag Control
2002-01-0271	Conceptual Design of Distributed by-Wire Systems

## Brake-By-Wire Systems

2006-01-3196	The Electronic Wedge Brake – EWB
2006-01-3194	Brake-by-Wire, Motivation and Engineering – GM Sequel
2006-01-1025	A Study on Sensor Fusion for Fault Tolerant Brake-by-Wire Driver Input Design with Dissimilar Sensors
2006-01-0924	Unified Control of Brake- and Steer-by-Wire Systems Using Optimal Control Allocation Methods
2006-01-0923	Control of Brake- and Steer-by-Wire Systems During Brake Actuator Failure
2005-01-1584	Robust Wheel-Slip Control for Brake-by-Wire Systems
2005-01-0787	Design of Two Families of Electric Park Brake and Their Optional Suite of Functionality & Operational Features
2005-01-0787	Braking Status Monitoring for Brake-by-Wire Systems
2002-01-2582	eBrake® - The MechatronicWedge Brake
2002-01-0266	The BRAKE Project – Centralized Versus Distributed Redundancy for Brake-by-Wire Systems
2001-01-3189	The Kinetic Brake Booster
2000-01-1054	A Cost Efficient Fault Tolerant Brake by Wire Architecture

## Steer-By-Wire Systems

2008-01-0493	Design Concept and Advantages of Steer-by-Wire System
2008-01-0110	Fault-Tolerant Architecture of Yaw Moment Management with Steer-by-Wire, Active Braking and Driving-Torque Distribution Integrated Control
2007-01-1490	TTA-Group Steer-by-Wire Working Group: An Initiative to Set up a Reference Architecture for Steer-by-Wire in Off-Highway Industry

2006-01-1173	Development of a Steer-by-Wire System for the GM Sequel
2005-01-1275	Electric Actuation Technologies for Automotive Steering Systems
2004-01-1106	A Control System Methodology for Steer by Wire Systems
2000-01-0823	Steer-by-Wire as a Mechatronic Implementation
2000-01-0822	Future Electrical Steering Systems: Realizations with Safety Requirements
1999-01-0401	Electric Power Steering – The First Step on the Way to “Steer by Wire”
1999-01-0400	The Steer-by-Wire Prototype Implementation: Realizing Time Triggered System Design, Fail Silence Behavior and Active Replication with Fault-Tolerance Support

## Drive-By-Wire Systems

2006-01-0360	Development of High Force Electromechanical Linear Actuator for Shift-by-Wire Automated Manual Transmissions
2004-01-1596	Enhancing Reliability of Drive-by-Wire Control Units by Fault Compensation using Data Fusion
2003-01-0115	Advanced Drive by Wire Design, the Military Solution
2001-01-3421	Very Advanced Automotive Powertrains with the Crankless Prime Movers

## Communication Networks

2005-01-1539	An Automotive Specification of a Time Triggered CAN Implementation: Doubling CAN's Usable Data Throughput
2005-01-1538	Performance Analysis of Fault Tolerant TTCAN System
2005-01-1528	Performance Evaluation of Vehicle Network Protocols for X-by-Wire Using Simulation
2005-01-1279	Distributed Control System Development for FlexRay-Based Systems
2004-01-1734	Virtual CAN Networks Over TTP – Integrating Legacy Systems Within the Time-Triggered Architecture
2004-01-0201	Analysis and Diagnostics of Time Triggered CAN (TTCAN) Systems
2002-01-0273	TTA By-Wire Prototyping
2001-01-0677	Tolerating Arbitrary Node Failures in the Time-Triggered Architecture
2001-01-0073	Time Triggered CAN (TTCAN)
2001-01-0071	An Investigation into the Future of Automotive In-Vehicle Control Networking Technology

## Future Trends

	Future Trends in X-by-Wire Systems
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