<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAISY, An Adaptive, Knowledge-based Driver Monitoring and Warning System</td>
<td>3</td>
</tr>
<tr>
<td>Fluctuation of Capillary Pulse as an Index for Driver's Internal States</td>
<td>11</td>
</tr>
<tr>
<td>Development of Drowsiness Detection System</td>
<td>15</td>
</tr>
<tr>
<td>Applications of Driver's Line of Sight to Automobiles - What Can Driver's Eye Tell</td>
<td>21</td>
</tr>
<tr>
<td>3-D Image Location Surveillance System for the Automotive Rear-View</td>
<td>27</td>
</tr>
<tr>
<td>A Vision-Aided Vehicle Driving System: Establishment of a Sign Finder System</td>
<td>33</td>
</tr>
<tr>
<td>Driver's Characteristics and Peripheral Vehicles Displaying System</td>
<td>39</td>
</tr>
<tr>
<td>Accident Vehicle Automatic Detection System by Image Processing Technology</td>
<td>45</td>
</tr>
<tr>
<td>Incident Prediction by Fuzzy Image Sequence Analysis</td>
<td>51</td>
</tr>
<tr>
<td>Fire Detection in Tunnels Using an Image Processing Method</td>
<td>57</td>
</tr>
<tr>
<td>Counting Cars by Tracking Moving Objects in the Outdoor Parking Lot</td>
<td>63</td>
</tr>
<tr>
<td>Parking Condition Discrimination System of Image Processing Type Using a Neural Network Model (On Tokyo Ring Expressway Niikura Parking Area)</td>
<td>69</td>
</tr>
<tr>
<td>Integration of the AVI System and the Enforcement Camera System in a Multi-lane Road Environment</td>
<td>75</td>
</tr>
<tr>
<td>Reflected Type Optical Vehicle Sensor</td>
<td>79</td>
</tr>
<tr>
<td>Optical Vehicle Detector Using Range Finding Method</td>
<td>85</td>
</tr>
<tr>
<td>Radar Speed Monitoring System</td>
<td>89</td>
</tr>
<tr>
<td>Development of a New Multi-Purpose Image Processing Vehicle Detector and its Implementation in the Tokyo Metropolitan Traffic Control System</td>
<td>95</td>
</tr>
<tr>
<td>Automatic Number-Plate Recognition: Neural Network Approach</td>
<td>99</td>
</tr>
<tr>
<td>Integrated Memory Array Processor and Real-Time Vision system for Vehicle Control</td>
<td>103</td>
</tr>
<tr>
<td>In-tunnel Transmission Characteristics of VICS Radio Beacon</td>
<td>107</td>
</tr>
<tr>
<td>FM Multiplex Broadcasting System &quot;DARC&quot;</td>
<td>111</td>
</tr>
<tr>
<td>Multimedia Information Broadcasting Service &quot;PRESENT&quot;</td>
<td>117</td>
</tr>
<tr>
<td>Mobile Data Communications and Electronic Data Interchange for Small and Medium Size Road Transport Enterprises in Europe: The Metafora Pilots</td>
<td>121</td>
</tr>
<tr>
<td>Packet Success Probabilities for Intelligent Vehicle Highway Systems Using Measured Headway Distributions</td>
<td>127</td>
</tr>
<tr>
<td>Performance of Vehicle Roadside Communication Systems supporting Multiple RTI-Applications</td>
<td>133</td>
</tr>
<tr>
<td>Results of Experiments on Transmission Functions of Leakage Coaxial Cable (LCX) in the Quasi-Microwave Band</td>
<td>139</td>
</tr>
<tr>
<td>A New Cooperative Optimized Channel Access for Inter-Vehicle Communication</td>
<td>145</td>
</tr>
<tr>
<td>MAC Protocol for Inter-Vehicle Communication Network Using Spread Spectrum Technique</td>
<td>149</td>
</tr>
<tr>
<td>A Network Architecture of the Inter-Vehicle Packet Communication System</td>
<td>159</td>
</tr>
<tr>
<td>Vehicle Information Networking Based on Inter-Vehicle Communications by Laser Beam Injection and Retro-Reflection Techniques</td>
<td>165</td>
</tr>
<tr>
<td>A Vehicle-to-Vehicle Communication and Ranging System Based on Spread Spectrum Technique - SS Communication Radar</td>
<td>169</td>
</tr>
</tbody>
</table>
Decentralized Control Procedure of Hand-off Channel in Mobile Communication Systems p. 175

Performance of Orthogonal TPC-CDMA Cellular System Using Cell Configuration Strategy p. 181

A New Client-Server-Based Handover Scheme in Future PCN p. A-1

A Coded Quatenary CPM Scheme for Data Exchange Over Satellite-Vehicle/Personal Communication Applications p. 187

Traffic Flow Optimization Over a Wide Area p. 193

Artificial Intelligence Approach for Optimizing Traffic Signal Timings on Urban Road Network p. 199

Development and Assessment of a Traffic Adaptive Control Systems in Korea p. 203

Advanced Coordination between a Traffic Control Center and its Supporting Units p. 209

Integration of Simulation Model and Traffic Signal Controller p. 217

Simulation of Road Traffic Management System with Dynamic Information p. 223

Simulation of Freeway Incident Restoring Operations p. 229

Data Requirements and Sources for the Calibration of Microscopic Motorway Simulation Models p. 233

Dynamic Traffic Simulation to Evaluate Vehicle Navigation Systems p. 239

A Development of a Traffic Simulator for Urban Road Networks: AVENUE p. 245

Effects of Parking Availability Information on System Performance: A Simulation Model Approach p. 251

A Study of Drivers' Behavior and Traffic Management p. 255

Reactive User Optimum and Predictive User Optimum In Dynamic Traffic Assignment p. 259

A National Electronic Infrastructure - An Open System Architecture for Freight Logistics and Fleet and Vehicle Management p. 265

European Transport Telematics and Implications for the Development of Advanced Logistics p. 271

Development of an Intelligent Management Clerk in a Logistic Domain p. 277

A Configuration Method of Surface Movement Guidance and Control (SMGC) System Based on Continuous Airplane Detection Using Electromagnetic Induction Loop Sensors and Its Block Control Logic p. 281

Genetic Algorithms for Vehicle Routing Problem in Deliver System p. 287

A Fast Algorithm for Finding Better Routes by AI Search Techniques p. 291

Optimal Freeway Network Control via Route Recommendation p. 297

Route Guidance Strategy under High Penetration Condition p. 303

Advanced Traveller Information Systems in the UK: Experience from the PLEIADeS and ROMANSE Projects p. 309

TRAVINFO: A Progress Report p. 315

Development of Elemental Algorithms for Future Dynamic Route Guidance System p. 321

A Route Guidance Algorithm of Traffic Network p. 327

Parking-Meter Supervision System p. 333

Definition of Congestion Based on Drivers’ Consciousness p. 339

Traffic-Flow-Prediction Systems Based on Upstream Traffic p. 345

Multi-Route Travel-Time Data Provision Systems Operating in Osaka p. 351
Evaluating Road Transport Projects in the Context of Sustainable Development p. 357
A Stochastic Model of Emission Expansion for an Urban Road Network p. 363
Modelling of Drivers’-Behaviour p. 371
Experimental Analysis Approach to Analyze Dynamic Route Choice Behavior of Driver with Travel Time Information p. 377
Panel Survey on Drivers’ Route Choice Behavior under Travel Time Information p. 383
A Preliminary Experimental Investigation of Display Patterns for Driver-In-Vehicle Information System in Taiwan p. 389
A Cognitive Animation Simulator for a Group of Car Drivers p. 395
A Study on Efficiency of the Driver Information System in the Tokyo Metropolitan Area p. 401
Wide Dynamic Range Vision Sensor for Vehicles p. 405
Millimetre Wave Radar Sensor for the Highway Global Positioning of a Vehicle p. 409
Application of Real-Time Simulation to the Lane-Keeping System p. 415
Road-Vehicle Cooperation Driving System p. 425
A Systems Approach to the Development of an Integrated Crash Avoidance Vehicle p. 431
Advanced Passive Safety System via Prediction and Sensor Fusion p. 435
A Study on Self-Reliant Cornering Speed Control System p. 441
Image Understanding Based on Edge-Histogram Method for Real-End Collision Avoidance System p. 445
Guidelight Systems: An Initial Assessment p. 451
The Effect of Background Scene Complexity on the Legibility of Head-Up-Displays for Automotive Applications p. 457
An Experimental Study into the Ability of Drivers to Assimilate and Retain In-Vehicle Traffic Information p. 463
A Study on Recognition of In-Car Visual Information p. 469
In-Vehicle Man-Machine Interaction the SOCRATES Approach p. 473
Application of Head-Up Displays for In-Vehicle Navigation/Route Guidance p. 479
A Speech Synthesizer for a Highway Advisory Information Radio System p. 485
Intelligent Control in Traffic Management p. 491
The Example of EuroBus/Transmodel in International Applications for Public Transport p. 497
Smart Vehicles and Intelligent Highways - An Integrated System? p. A-7
The Eleven Commandments for IVHS p. 503
Rethinking Nomadic Network Uses p. 507
Economic Incentives to Achieve Convergence of User and System Optima p. 513
Reflections on State-of-the-Art within RTI/IVHS p. 519
International Competitiveness in IVHS: Europe, Japan, and the United States p. 525
U. S. Trends in Navigable Digital Map Databases p. 533
The Future of In-Vehicle Navigation Systems

Functions and Applications of Socrates: A Dynamic In-Car Navigation System with Cellular-Radio Based Bi-Directional Communication Facility

Updating of Digital Road Map

EURO-SCOUT is Facing the German 1994 Market

Intelligence on Board Modern Approach to Transit Fleet Management

Development of Toyota In-Vehicle Equipments for the VICS Demonstration Test

Integrated GPS and Dead Reckoning for Low-Cost Vehicle Navigation and Tracking

Multiple Sensor Fusion for Navigation Systems

Differential Positioning with a Single Satellite

An Analysis of Route Optimization Techniques for Navigation and Guidance Systems

Increased Accuracy of Motor Vehicle Position Estimation by Utilising Map Data, Vehicle Dynamics, and Other Information Sources

Personal Dynamic Maps Based on Distributed Geographic Information Servers

Development of INFONAVI - An In-Vehicle Navigation System with an Information Function Utilizing Radio Paper

The European Digital Road Map Triggered by Car Information Systems

Combined Position Detection System for Pedestrian/Train Mode

Critical Issues on Digital Map Databases for Land-Based Navigation and Guidance Systems: A Canadian Perspective

Map Database Generation System for In-Vehicle Navigation System

Consumer Location Services

Universal Traffic Management System(UTMS) in Japan

UTMS' Planned Advanced Mobile Information System

Automatic Traffic Information Provision System Utilizing Facsimile and Telephone (Now Operating in Osaka)

Development for Wide-Area Traffic Information System

The LLAMD Euro-Project: Integrated Field Trials

The Use of METACOR Tool for Integrated Urban and Interurban Traffic Control. Evaluation in Corridor Peripherique, Paris

The SOCRATES Projects: Progress Towards an Integrated Road Transport Environment

ROMANSE (ROad MANagement System for Europe) Project

PLEIADES - A Drive II Project (Paris-London Evaluation of Integrated ATT and Drive Experimental Systems)

Test-site-Oriented SCenario Assessment (TOSCA II) - IRTE Scenarios as a basis for socio-economic evaluation

Setting Up the SOCRATES Information Centre for the RHAPIT Field Trial

Towards the Realization of ARTS

Experience with a distributed Information Architecture for Real-Time Intermodal Tracking and Tracing

The MELYSSA Project: How to Develop New Techniques on a Solid Existing Basis

Busways and Bus Lanes in Brazil and Japan

High Security Electronic Toll and Traffic Management and Road - Pricing System Using Encrypted Messages and Personal Identity Number