

Driver/Vehicle Interface, Information & Assistance Systems

Comparisons between Predictions of Numerical Thermal Manikin Model and Experiments under Solar Radiation (F2006D035T)

Yoshiichi Ozeki*, Toru Takabayashi - Asahi Glass Co., Ltd., Japan
Kazuhiko Matsunaga, Mai Anamizu - Isuzu Motors Ltd., Japan
Shin-ichi Tanabe - Waseda University, Japan

Development and Evaluation on Prototype Vehicle of a Driver Support System with Accelerator Pedal Force Feedback and Driving and Braking Force Control (F2006D041T)

Nobuyuki Kuge*, Tomohiro Yamamura, Takeshi Kimura, Yosuke Kobayashi, Genpei Naito - Nissan Motor Co., Ltd., Japan

Study of Path Tracking Skill and Strategy Using a Moving Base Simulator (F2006D075T)

Nilsson, Andreas*, Agebro, Markus, Stensson Trigell, Annika - KTH Vehicle Dynamics, Sweden

Reduction of Fuel Consumption by Predictive Thermal Management (F2006D076T)

Richter, Rainer*, Braun, Mathias - BMW Group, Germany
Gosslau, Dirk, Binnenbruck, Ralf, Steinberg, Peter - 2BTU Cottbus, Germany

Measurement of Semi-Volatile Organic Compounds (SVOCS) in Vehicle Cabin - The Second Report (F2006D086T)

Kunihiro, Hoshino* - GL Sciences Inc., Japan
Kouichi, Tatsu - Isuzu Advanced Engineering Center, Ltd. , Japan
Masafumi, Morimoto – Espec Corp., Japan
Shin-ichi, Tanabe - Waseda University, Japan

Windshield Display for Active Safety (F2006D105T)

Koji Nakamura, Hiroshi Ando and Nobuaki Kawahara - Research Laboratories, DENSO Corporation, Japan

Vehicle Interior Space Utilization with Seat Equipment for Occupant Relaxation (F2006D109T)

Motoyoshi, Naoko*, Michida, Nanae, Miyahara, Tamio, Nakaya, Kouichi - Mazda Motor Corporation, Japan

Dynamical Design of an Outdoor Walking Aid (F2006D112T)

Ishihama, Masao* - Kanagawa Institute of Technology, Japan
Aritake, Takashi - Jatco, Japan

Adapting Segmental Models of Human Thermoregulation and Thermal Sensation for use in a Thermal Simulation of a Vehicle Passenger Compartment (F2006D129T)

Curran, Allen*, Hepokoski, Mark, Curlee, John - ThermoAnalytics, Inc., USA
Nelson, David, Biswas, Abhishek - Michigan Technological University, USA

Novel user Interface for Semi-Automatic Parking Assistance System (F2006D130T)

Jung, Ho Gi, Kim, Dong Suk*, Yoon, Pal Joo - MANDO Corporation, Republic of Korea
Kim, Jaihie - Yonsei University, Republic of Korea

A Study of Cervical Spine Kinematics in Rear Impacts and Mitigation of Loading Level to Cervical Soft Tissue (F2006D145T)

Kitagawa, Yuichi*, Yasuki, Tsuyoshi, Hasegawa, Junji - Toyota Motor Corporation, Japan

Study of Driver Behavior when using Full Speed Range Adaptive Cruise Control (F2006D147T)

Kimura Kenji *, Kanamori Hitoshi - Toyota Motor Corporation, Japan
Wakasugi Takashi - Japan Automobile Research Institute, Japan

Visual Cognitive Performance of the Elderly - Effects on Reading Time of Age, Character Size and Visual Distance - (F2006D169T)

Atsumi, Bunji*, Kanamori, Hitoshi - Toyota Motor Corporation, Japan
Omori, Masako - Kobe Women's University, Japan
Miyao, Masaru - Nagoya University, Japan

Vibration Analysis of Automobile Engines Based on Flexible Multibody Dynamics (Prediction of Crankshaft Torsional Vibration Considering Interactions with Piston-Conrod Sub-System) (F2006D172T)

Atsushi Kawaguchi*, Atsushi Kawamoto, Takayuki Aoyama - Toyota Central R&D Labs., Inc., Nagakute Aichi, Japan

A Novel Approach for a Night Vision System (F2006D177T)

Dr. Knoll, Peter*, Reppich, Andreas - Robert Bosch GmbH, Germany

Development of a Method for Measuring Noise/Vibration Sensitivity to Tire Contact Patch Inputs (F2006D180T)

Shinichi Maruyama* - Nissan Motor Co., Japan

Keeping the Focus on the Driver: The BMW Approach to Driver Assistance and Active Safety Systems that interact with Vehicle Dynamics (F2006D185T)

Dr. Steinle, Joachim, Dr. Hohmann, Sören, Dr. Kopf, Matthias, Brandstätter, Martin, Dr. Pfeiffer, Andreas, Farid, Nima - BMW Group, Germany

Description of Broadband Structure-Borne and Airborne Noise Transmission from the Power Train (F2006D187T)

Sottek, Roland*, Genuit, Klaus - HEAD Acoustics GmbH, Germany
Behler, Gottfried, Vorländer, Michael - Institute of Technical Acoustics, RWTH Aachen University, Germany

Energy Base Boundary Element Method for Computing the Exterior Acoustic Field for Vehicle Airborne Noise Analysis (F2006D193T)

Vlahopoulos, Nickolas - University of Michigan, USA
DeLanghe, Koen* - LMS International, Belgium
Sun, Jiulong - Michigan Engineering Services, LLC, USA

Powertrain Technology

Potentials of Existing Emission Control Technologies for Diesel Engines Fuelled with Biodiesel (F2006P015T)

Yamane, Koji*, Kawasaki, Kiyoshi - The University of Shiga Prefecture, Japan

Double Rotor Synchronous Generator used as Power Splitting Device in Hybrid Vehicles (F2006P038T)

Cerovsky, Zdenek*, Mindl, Pavel - Czech Technical University in Prague, Czech Republic

In-Cylinder Mixture Temperature Distribution Measurement for HCCI Combustion (F2006P050T)

Morihiro Nagamine*, Akihiko Kakuho, Yukio Amenomori, Tomonori Urushihara, Teruyuki Itoh - Nissan Motor Co., Ltd., Japan

Clarification of the Effect of Negative Temperature Coefficient on SI Engine Knocks by Measuring Local Gas Temperature using Two-Wire Thermocouple (F2006P053T)

Moriyoshi, Yasuo*, Yamada, Takafumi, Izumi, Yoshihiro - Chiba University, Japan

Development of Homogenization Structural Analysis Technology for Fuel Cell Stack (F2006P080T)

*Harada, Takashi, Fujiuchi, Makoto - Toyota Motor Corporation Fuel Cell Production Engineering Div., Japan

Terada, Kenjiro, Yamada, Masaki, Wakisaka, Yohei - Department of Civil Engineering, Tohoku University, Japan

Super Carbon Fouling Resistive Small Spark Plug (F2006P084T)

Ishiguro, Hiroya* - Denso Corporation, Japan

Okabe, Shinichi - Nippon Soken, Inc., Japan

Hashizume, Katsushi - Toyota Motor Corporation, Japan

Study of Compressed Natural Gas Direct Injection Engine (F2006P089T)

Taniguchi, Satoshi*, Tsukasaki, Yukihiro - Toyota Motor Corporation, Japan

Yasuda, Akio - Toyota Motor North America, Inc., USA

Analysis of a Fuel Liquid Film Thickness on the Intake Port and Combustion Chamber of a Port Fuel Injection Engine (F2006P106T)

Takahashi, Yukihiro *, Nakase, Yoshihiro, Nippon Soken Inc., Japan

Katou, Yuuichi - Toyota Motor Corp., Japan

Development of One-Dimensional Models for Turbochargers and Application to the Improvement of Engine Intake/Exhaust Noise and Volumetric Efficiency (F2006P108T)

Payri, Francisco, Serrano, José R, Fernández, Tânia - CMT-Motores Térmicos. Universidad Politécnica de Valencia, Spain

Soltani, Saïd* - Renault, France

Prediction of Stress on Elements of Metal Pushing V-Belt for Fatigue Strength by Simulation of Dynamic Behaviour (F2006P111T)

Toshihiro Saito* - Tochigi R&D Center, Honda R&D Co., Ltd., JAPAN

Detailed Dynamic Modeling of Auto-Thermal Gasoline Fuel-Processors (F2006P138T)

Böhme, Thomas R.*, Onder, Christopher, Guzzella, Lino - Measurement and Control Laboratory, ETH Zurich, Switzerland

Low Emission Combustion for Spray-Guided Direct Injection Gasoline Engine (F2006P147T)

Miyagawa Hiroshi*, Koike Makoto, Suzuoki Tetsunori - Toyota Central R&D Labs. Inc., Japan
Mochizuki Kouichi - Denso Corporation, Japan

Premixed Laminar and Turbulent Combustion: An Examination and Correlation in Terms of Lewis Number (F2006P153T)

Smallbone, Andrew*, Kitagawa, Toshiaki - Department of Mechanical Engineering Science, Kyushu University, Japan.

Experimental and Numerical Investigation of Heat Absorption Characteristics by Engine Oil in Piston Cooling Channel (F2006P154T)

Takeuchi, Yoshitaka*, Akimoto, Kenta - Toyota Industries Corporation, Japan
Noda, Takashi, Nozawa, Yu, Yamada, Tomohisa - Toyota Central R&D Labs., Inc., Japan

Optimisation of LPG Throttle-Body Injection System for Improved Efficiency, Emissions and Air-Fuel Mixing (F2006P155T)

Khan, Mohammad Ali*, Watson, Harry, Baker, Paul, Liew, Gordon - Department of Mechanical & Manufacturing Engineering, The University of Melbourne, Australia
Johnson, Damian - BP Australia Pty Ltd, Australia

A New Gasoline Combustion System with High Thermal Efficiency by Rapid Piston-Movement Near TDC (F2006P168T)

Morikawa, Koji*, Kaneko, Makoto - Fuji Heavy Industries Ltd., Japan
Moriyoshi, Yasuo - Chiba University, Japan

Development of Hydrogen Rotary Engine with Dual-Fuel System (F2006P200T)

Saito Tomoaki*, Matsushita Masanori, Mitsugi Hiroaki, Ueda Takayuki - Mazda Motor Corporation, Japan

Investigations on Availability of PM Steel According to Different Requirements for Each Application (F2006P201T)

Kanno, Koki* - Technical Support Department of Höganäs Japan K.K., Japan

Shift Dynamics Modeling for Optimizing Variator Slip Control in a Continuously Variable Transmission (F2006P208T)

Simons, Sjoerd, 1Klaassen, Tim, Veenhuizen*, Bram - Technische Universiteit Eindhoven, The Netherlands
Carbone, Giuseppe - DIMeG - Politecnico di Bari, Italy



Fuel Consumption Potential of the Pushbelt CVT (F2006P218T)

Van der Sluis, Francis*, Van Dongen, Tom, Van Spijk, Gert-Jan, Van der Velde, Arie, Van Heeswijk, Ad - Van Doorne's Transmissie - Bosch Group, The Netherlands

Generating Realistic Emission Factors for Heavy-Duty Vehicles – Methods and First Results (F2006P238T)

Juhani Laurikko, Kimmo Erkkilä - VTT Technical Research Centre Finland
Nils-Olof Nylund - TransEnergyConsulting TEC, Finland

Development of “Virtual and Real Simulator” for Hybrid Vehicle Evaluation (F2006P273T)

Sakai, Shoji - Nippon Soken, Inc., Japan
Kojima, Yasushi, Shiota, Koji - Toyota Motor Corporation, Japan

The Design of Advanced Transmissions (F2006P277T)

Raghavan, Madhusudan*, Bucknor, Norman, Maguire, Joel - General Motors R&D Center, USA
Hendrickson, James, Tejinder - General Motors Powertrain, USA

Development of Lead –Free Floating Bush Bearings for Turbochargers (F2006P279T)

Shinji Ochi*, Masahito Fujita, Eisaku Inoue, Atsushi Uno - Daido Metal Co., Ltd. Japan

Optimizing Gearset Durability in Double Pinion Planetary Transmissions (F2006P290T)

Singh, Avinash* - Advanced Power Transfer, GM Powertrain, General Motors Corporation, USA.

Development of Vibration Reduction Motor Control for Electrical 4WD Hybrid Vehicles (F2006P297T)

Shuji, Tomura*, Yoshiaki, Ito - Toyota Central R&D Labs., Inc., Japan
Shinichi, Sugai - Toyota Motor Corp., Japan

Advanced Math-Based Engine Calibration System Design (F2006P302T)

Lee, Byungho* - GM Powertrain, U.S.A
Guezennec, Yann G. - The Ohio State University, U.S.A.

Diesel Engine and Automated Transmission: Powertrain Global Optimisation Under Multiple Constraints (F2006P318T)

S. Bracard*, O. Laguitton, M. Rougé - Renault SAS, France

Super-Intelligent Catalysts Having the Selfregenerative Function of PD, RH and PT (F2006P327T)

Uenishi Mari*, Tanaka Hirohisa, Tan Isao, Taniguchi Masashi, Kajita Nobuhiko - Daihatsu Motor Co., Ltd., Japan
Kimura Mareo, Narita Keiichi, Suzuki Hiromasa - Cataler Corporation, Japan

Diesel Variable Compression Ratio (VCR) Engine Development Using Multi-Link Mechanism (F2006P331T)

1Gérard, David*, Ben Hadj Hamouda, Hedi, Croguennec, Steven, Thomine, Marc, Doisy, Anne-Marie - Renault S.A.S, France
Aoyama, Shunichi, Ushijima, Kenshi, Moteki, Katsuya - Nissan Motor Co, Ltd, Japan

Ultra Low Emission System for Continuously Variable Valve Lift Gasoline Engine (F2006P358T)

Tagami, Hiroshi*, Yasui, Yuji, Sato, Masahiro, Ito, Hisashi - Honda R&D Co., Ltd. Automobile R&D Center, Japan,

A Study of a Gasoline HCCI Engine Equipped with an Electromagnetic VVT Mechanism - Increasing the Higher Load Operational Range with the Inter-Cylinder EGR Boost System – (F2006P360T)

Takanashi, Junichi*, Awasaka, Moriyoshi, Kakinuma, Takashi, Takazawa, Masanobu, Urata, Yasuhiro - Honda R&D Co., Ltd. Automobile R&D Center, Japan

Injection Strategy for a Direct-Injection SI Hydrogen Engine (F2006P368T)

Mohammadi, Ali - Toyota Motor Europe (Technical centre), Belgium
Shioji, Masahiro*, Nakai, Yasuyuki, Ishikura, Wataru - Kyoto University (Graduate School of Energy Science), Japan
Tabo, Eizo - Mitsubishi Motors, Japan

Extending Stratified Operation Range in Load Map of DISI Engines by Boosting (F2006P370T)

Kneifel, Alexander*, Kettner, Maurice; Xander, Benedikt; Velji, Amin; Spicher, Ulrich - Universitaet Karlsruhe (TH), Institute for Reciprocating Engines, Germany

Study on Ignition Timing Control for Diesel Engines Using In-Cylinder Pressure Sensor - Measures to Counter Fuel Cetane Number and EGR Effect – (F2006P371T)

Shimasaki, Yuichi*, Hasegawa, Mamoru, Yamaguchi, Satoshi, Kobayashi, Makoto, Sakamoto, Hideki, Kitayama, Naoto, Kanda, Tomohiro - Honda R&D Co.,Ltd. Automobile R&D Center, Japan

EM Reduction by a Large Amount of EGR and Excessive Cooled Intake Gas in Diesel Engines (F2006P372T)

Shimo, Daisuke*, Kataoka, Motoshi, Fujimoto, Hidefumi, and Terazawa, Yasuyuki - Mazda Motor Corporation Technical Research Centre, Japan

Approaches to Inverter Quality Assurance for Hybrid Vehicles (F2006P374T)

Nakako, Yuya*, Yoshida, Tomomasa, Ohuchi, Takashi, Hirotaka, Ohno, Yoshiharu, Takemoto, Baba, Yoichiro - Toyota Motor Corporation (Electronic Components Engineering Div.), Japan

New Tools for Interior Comfort Evaluation of Modern Vehicles (F2006P378T)

Vecchio, Antonio, Janssens, Karl, Peeters, Bart, Van der Auweraer, Herman* - LMS International, Belgium

Comparison of the Phenomena of Autoignition in Highly Charged SI Engines with External and Internal Mixture Formation Regarding Influencing Variables, Mechanisms and Preventive Measures (F2006P392T)

Geringer, Bernhard, Hofmann, Peter, Prochazka, Georg* - Vienna University of Technology, Austria
Willand, Jürgen, Jelitto, Christian - Volkswagen AG, Germany

Evaluation of Basic Characteristics of Bearing Using New Bearing Rig Tester and Compatibility Evaluation Using Actual Connecting Rod (F2006P394T)

Machida, Kyoichi*, Takahashi, Shinichi, Ueshima, Hideo, Fujiki, Kenji - Honda R&D Co.,Ltd., Japan

Transportation Challenges in Emerging Economies

Real-Time, Size-Resolved, Quantitative Measurements of Diesel Exhaust Particles Semi-Volatile Chemical Composition by Means of Aerosol Mass Spectrometer (F2006T030T)

Akiyama, Kenichi* - Japan Automobile Research Institute, Japan
Douglas, Worsnop - Aerodyne research, USA

Visual Behavior Assessment of Older Driver using a Simulator (F2006T057T)

Higuchi, Kazunori*, Kokubun, Mitsuteru, Umemura, Yoshiyuki - Toyota Central R&D Labs., Inc. Japan
Fuwamoto, Yoshitaka, Atsumi, Bunji - Toyota Motor Corp. Japan

Clever – A Compact Low Emission Vehicle for Urban Transport (F2006T066T)

Johannsen, Heiko*, Volker Schindler - Technical University Berlin, Automotive Engineering
Krams, Peter - BMW AG
Denton, Chris - Cooper Avon Tires Ltd
Kretz, Richard - Light Metal Competence Centre Ranshofen
Tilagone, Richard - IFP
Sohr, Steffen - TAKATA-PETRI
Barker, Matt - University of Bath, Centre for Power Transmission and Motion Control
Neumann, Alexander - Universitaet fuer Bodenkultur Wien, Institute for Transport Studies
Abele, Steffen - WEH GmbH
Matschy, Guenther - PSW Automotive Engineering GmbH

Vehicle Design & Manufacturing

BMW Hydrogen 7 Series (F2006M088T)

Dr. Danner, Stefan*, Dr. Fuerst, Sigmund - BMW AG, Germany

High Performance LES on Earth Simulator: A Challenge for Vehicle Aerodynamics (F2006M111T)

Tsubokura, Makoto* - The University of Electro Communications, Japan
Kitoh, Kozo - Kozo Kitoh Technology, Inc., Japan
Oshima, Nobuyuki, Tominaga, Takuji - Hokkaido University, Japan
Zhang Huilai, Onishi Keiji - Advance Soft., Japan
Kobayashi, Toshio - Japan Automobile Research Institute, Japan
Sebben, Simone - Volvo Car, Sweden

Development of Novel Recycling Technology for Automobile Rubber Waste (F2006M134T)

Fukumori, Kenzo*, Matsushita, Mitsumasa, Okamoto, Hirotaka, Sato, Norio - Toyota Central R & D Labs., Inc., Japan
Takeuchi, Katsumasa - Toyoda Gosei Co., Ltd., Japan
Suzuki, Yasuyuki - Toyota Motor Corp., Japan

Optimization of Vehicle Design Regarding Internal Airflow in the Aerodynamic Development Process (F2006M157T)

Thibaut, Jochen*, Wiedemann, Jochen - IVK/FKFS University Stuttgart, Germany
Winkelmann, Holger - BMW Group, Germany

Measurement and Visualization of Micro-Brilliance Texture for Automobile Paint (F2006M167T)

Tsubouchi, Takahiro*, Ikeda, Minoru, Umemura, Susumu, Kodama, Satoshi - Toyota Motor Corporation, Japan

Study of Polylactic Acid High-Order Structure Control (F2006M175T)

Sekito, Takeshi*, Honma, Nobutaka, Miyake, Yuichi - Toyota Motor Corporation, Japan

Study on Near Dry Cutting of Aluminium Silicon Alloys for Engine Cylinder Head (F2006M187T)

Yoshimura, Hiromi*, Toda, Yoshikazu - Toyota Motor Corporation, Japan
Moriwaki, Toshimichi, Ohmae, Nobuo, Nakai, Tetsuo, Shibasaka, Toshiro, Kinoshita, Hiroshi - Kobe University, Japan
Okida, Junya - Sumitomo Electric Industries, Japan

Development of New Quantitative Evaluation Method for Surface Touch Perception of Car Interior Parts (F2006M191T)

Yamada Atsushi*, Tsuboi Hideaki, Nishibata Hiroyuki, Nakamura Kazuhiro - Kanto Auto Works Ltd., Japan

Application of Laser Welding Technology in Toyota Motor Corporation (F2006M212T)

Mikame, Kazuhisa, Uchida, Keisuke* - Toyota Motor Corporation, Japan

Development of a CAE System for Wear Prediction of Hot Forging Dies (F2006M213T)

Watanabe, Atsuo*, Suzuki, Toshiyuki - Toyota Motor Corporation, Japan

Nakanishi, Koukichi, Tanaka, Toshiaki, Sawamura, Masatoshi, Yogo, Yasuhiro - Toyota Central R&D Labs., Inc., Japan

Development of Simulation Tool for Optimizing Operation Conditions of Carburized Quenching Process (F2006M214T)

Watanabe, Youichi* - Nissan Motor Co., Ltd., Japan

Inoue, Tatsuo - Fukuyama University, Japan

Ju, Dong-Ying - Saitama Institute of Technology, Japan

Shichino, Hayato - Komatsu Co. Ltd., Japan

Okamura, Kazuo - Sumitomo Metals Co. Ltd., Japan

Narazaki, Michiharu - Utsunomiya University, Japan

Kanamori, Hideo, Ichitani, Katsumi - Idemitsu Kosan Co. Ltd., Japan

Development of Super Touch Feel Paint (F2006M217T)

Miyajima Satoshi* - Kanto Auto Works Ltd., Japan

Kawazu Kenji - Toyota Motor Corporation, Japan

Development of All-Olefin Plastic Backdoor (F2006M229T)

Katsuhiko, Suzuki *, Mitsuo, Yamada, Takashi, Gotsuu, Takao, Oota, Takao, Tanimoto - Nissan Motor Co., Ltd., Japan

Shigeo, Suzuki, Taiji, Shiraishi - Hitachi Chemical Co., Ltd., Japan

Development of Accurate Springback Prediction Technology in Sheet Forming Simulations (F2006M230T)

Takamura, Masato*, Takahashi, Susumu, Tanaka, Yoshinori - Nissan Motor Co., Ltd., Japan

Makinouchi, Akitake, Sunaga, Hideyuki - The Institute of Physical and Chemical Research, Japan

Composite Space Frame Technology: New Advances in CFRP Body Structures for High Performance Cars (F2006M231T)

Strambi Giulio* - ATR Group, Italy

The Resistance on Thermal Shocks of Combustion Engine Pistons (F2006M232T)

Jankowski, Antoni, Sieminska, Barbara* - Institute of Aeronautics, Poland

Slawinski, Zenon - Lublin University of Technology, Poland

Drew, Julius - Polmax Automation, NYS, USA

Vehicle Dynamics & Intelligent Control Systems

Investigation in Intelligent Active Safety Control based on Software Fusion (F2006V005T)

Shyrokau, Barys, Sarachan, Uladzimir - Academic Automotive Association, Belarus
Tretsiak, Dzmitry*, Siakhovich, Uladzimir, Kliuzovich, Siarhei, Kazlouski, Siarhei, Ivanov Valentin
- Belarusian National Technical University, Belarus

Tire/Road Friction Estimation (F2006V018T)

Delanne Yves and Vandanjon* Pierre-Olivier - Laboratoire Central des Ponts et Chaussées -
LCPC- France

Mathematical Modelling of a Cornering Vehicle Fitted with Hydraulic Power-Assisted-Steering (F2006V019T)

Baharom, Masri B, Hussain, Khalid*, Day, Andrew J - University of Bradford, School of
Engineering, Design and Technology, UK

Research on Predictive Lane-Changing Algorithm using Model Predictive Control (F2006V047T)

Nishira, Hikaru*, Seto, Yoji, Yamamura, Yoshinori - Nissan Motor Co., Ltd., Japan
Kawabe, Taketoshi - Kyushu University, Japan

Design Anomalies of Electro-Mechanical Brake Systems (F2006V048T)

Levente, Balogh, David, Lengyel - Department of Automobiles, Budapest University of
Technology and Economics, Hungary
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Economics, Hungary
Huba, Nemeth, Laszlo, Palkovics - Knorr Bremse Research and Development Center Budapest,
Hungary

Autonomous Corner Modules as an Enabler for New Vehicle Chassis Solutions (F2006V054T)

Jonasson, Mats*, Zetterström, Sigvard - Volvo Car Corporation, Sweden
Stensson Trigell, Annika - KTH Vehicle Dynamics, Sweden

Developments in Low Noise and Extended Mobility Tire Technology (F2006V064T)

Saemann, Ernst-Ulrich*, Buschmann, Juergen - Continental AG, Germany
Morkholt, Jakob - Brüel&Kjaer A/S, Denmark

Application of Fluid/Structure Interaction Analysis to Tire Development (F2006V070T)

Oida, Shoji*, Seta, Eisuke, Heguri, Hisashi, Kato, Kenshiro - Bridgestone Corporation, Japan

The Mechatronic Tyre for Online Determination of Tyre Contact Patch Forces (F2006V085T)

Goertz, Harald*, Hüseemann, Thomas - Institut für Kraftfahrwesen, Germany

Active Front and Rear Steering Control in Four Wheel Steering Vehicles (F2006V089T)

Marino, Riccardo*, Scalzi, Stefano, Cinili, Fabio - Università degli Studi di Roma "Tor Vergata", Italy

T³M – TÜV Tire Temperature Method A Breakthrough Methodology for Evaluating Tire Robustness, Performance and Wear (F2006V094T)

Netsch, Lars, Schick, Bernhard, Kraus, Alexander, Berk Müller, Markus - TÜV SÜD Automotive, Munich, Germany

Ito, Yuji* - TÜV SÜD Japan, Tokyo, Japan

3D-Track - Give the Simulation the Chance for a Better Work! Mobile, High-Resolution Topology and Roughness Measuring of Road Surfaces to Create 3D Track Models (F2006V095T)

Bernhard Schick *, Steffen Witschass - TÜV SÜD Automotive GmbH, Germany

Helmut Gimmler, Dr. Jochen Rauh - DaimlerChrysler Research, Germany

The Possibility of Intelligent Tire (Technology of Contact Area Information Sensing) (F2006V104T)

Morinaga, Hiroshi*, Wakao, Yasumichi, Hanatsuka, Yasushi, Kobayakawa, Akira - Bridgestone Corporation, Japan

Measuring Stiffness and Damping Properties of Heavy Tyres (F2006V127T)

Lehtonen, Tero, Kaijalainen, Osku, Pirjola, Heikki, Juhala, Matti* - Helsinki University of Technology, Finland

Examination of Voluntary Driving Operational Timing by Using Information Obtained with the Developed Jerk Sensor (F2006V137T)

Yamakado, Makoto* - Hitachi, Ltd., Japan

Abe, Masato - Kanagawa Institute of Technology, Japan

The Electronic Wedge Brake – EWB (F2006V140T)

Hartmann, Henry*, Roberts, Richard, Ho, Lok Man, Gombert, Bernd - Siemens VDO Automotive AG, Germany

FE Analysis of Brake Pad Surface Temperatures in Friction Braking (F2006V163T)

Zhao Yue, Qi Hong-Sheng*, Day Andrew J. - University of Bradford

Electronic Stability Control (ESC) Coordinated with Electric Power Steering (EPS) (F2006V195T)

Yasui, Yoshiyuki, Kodama, Hiroyuki* - ADVICS Co., Ltd., Japan

Momiyama, Minekazu, Kato, Hiroaki - JTEKT Corp., Japan

Tanaka, Wataru - Aisin Seiki Co., Ltd., Japan

Ono, Eiichi, Muragishi, Yuji - Toyota Central R&D Labs., Inc., Japan

Development of Steering Hardware-In-The-Loop (HIL) Simulator (F2006V196T)

Masaya, Segawa, Masayasu, Higashi*, Shirou, Nakano - JTEKT Corporation, Japan

Motoki, Shino - The University of Tokyo, Japan

Masao, Nagai - Tokyo University of Agriculture and Technology, Japan



The Development of Stereo Image Obstacle Recognition System (F2006V197T)

Takagi, Yasuhiro*, Tokoro, Setsuo, Shiraishi, Tatsuya, Usami, Masayuki, Ohue, Kenichi, Hiroyuki, Uno - Toyota Motor Corporation, Japan

Research on Incident Analysis Using Drive Recorder Part 2: Toward Active Safety Assessment (F2006V202T)

Nagai, Masao*, Michitsuji, Yohei - Tokyo University of Agriculture and Technology, Japan
Kamata, Minoru, Fujita, Mitsunobu, Shino, Motoki - The University of Tokyo, Japan
Maeda, Kozo - JSAE, Japan

Dynamic Measurement of the Forces in the Friction Area of a Disc Brake during a Braking Process (F2006V218T)

Degenstein, Thomas*, Winner, Hermann - Institute of Automotive Engineering Department at Technische Universität Darmstadt, Germany

Assessment of Lane Recognition Systems (F2006V252T)

Dr. rer. nat. Dirk Dickmanns, Dr. rer. nat. Reiner Wertheimer, Harald Gräf - BMW Group, Germany
Martin Anderschitz - eurospace GmbH, Germany