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The all new BMW 7 Series
Peter Langen, M. Wachinger, Dr. C. Dorrer, W. Nixel, M. Schwarz, BMW Group

Highly automated driving for commercial vehicles
Markus Kirschbaum, Daimler AG

Automated driving, electrification and connectivity –
the evolution of vehicle motion control
Alexander Häußler, Robert Bosch GmbH

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Future consumer protection demands on vehicle safety
Andreas Rigling, ADAC e.V. Technik Zentrum

Model-based development methods –
What can chassis and powertrain development learn
from each other?
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The chassis of the all new Audi Q7
Carsten Jablonowski, V. Underberg, M. Paefgen, AUDI AG

Network topology for chassis – potential of ethernet-based systems
Kristian Trenkel, P. Wunner, iSyst Intelligente Systeme GmbH

Suspension design of the Visio.M electric research vehicle
Andreas Schultze, T. Helfrich, Prof. Dr. M. Lienkamp,
Institute of Automotive Technology (FTM), TU Munich

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K. Shima, Toyota Motor Corporation, Japan

The influence of the modeling depth of active chassis systems with respect to the development stage and their interaction with driving characteristics
Kilian Dettlaff, Prof. Dr. J. Wiedemann,
Institute for Internal Combustion Engines and Automotive Engineering (IVK), University of Stuttgart;
U. Schaaf, I. Scharfenbaum, Dr. A. Wagner, AUDI AG

Smart electromechanical system to improve vehicle handling and stability by toe and camber control on the rear wheel
Isabel Ramirez Ruiz, Ferrari S.p.A., Italy;
Dr. M. Alirand, N. Kieny, Siemens Industry Software SAS, France;
Prof. F. Cheli, Politecnico di Milano, Italy
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Tire use and road safety – background to policy recommendations for new EU measures
Sven Jansen, Dr. A. Schmeitz, TNO Technical Sciences/Automotive, The Netherlands; L. Akkermans, Transport & Mobility Leuven, Belgium

The influence of wheel and tire aerodynamics in WLTP
Dr. Timo Kuthada, F. Wittmeier, Institute of Automotive Engineering and Vehicle Engines Stuttgart (FKFS)

Towards a comprehensive approach for the sustainability assessment of a product: product social impact assessment
Dr. Marzia Traverso, P. Tarne, Dr. V. Wagner, BMW Group

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A vehicle lateral control approach for collision avoidance by emergency steering maneuvers
Martin Keller, Prof. Dr. Dr. T. Bertram, Institute of Control Theory and Systems Engineering (RST), TU Dortmund; Dr. C. Haß, Dr. A. Seewald, TRW Automotive GmbH

Collision avoidance with combined braking and steering
Carlo Ackermann, J. Bechtlof, Prof. Dr. Dr. R. Isermann, Institute of Automatic Control and Mechatronics (IAT), TU Darmstadt

Driver assistance for trucks – from lane keeping assistance to smart truck maneuvering
Alexander Gaedke, R. Greul, S. Kanngießer, N. Boos, Robert Bosch Automotive Steering GmbH
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Development of a driving dynamics-oriented suspension design during the early concept phase
Karthik Vemireddy, T. Dittmar, Prof. Dr. L. Eckstein, Institute for Automotive Engineering (ika), RWTH Aachen University; L. Hesse, P. Rettweiler, fka Forschungsgesellschaft Kraftfahrwesen mbH Aachen

Development of a chassis model including elastic behavior for real-time applications
Frédéric Etienne Kracht, Prof. Dr. D. Schramm, Dr. B. Hesse, Chair of Mechatronics, Y. Zhao, Institute for Mechatronics and System Dynamics, University of Duisburg-Essen; Dr. M. Unterreiner, Dr. Ing. h.c. F. Porsche AG

Lightweight design in subassemblies with changing design spaces to find an overall weight optimum for series-produced cars
Gerhard Steber, BMW Group; Prof. Dr. R. Lachmayer, Institute of Product Development (IPeG), Leibniz University Hannover

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Charlie Gagliano, Honda R&D Americas, Inc., USA; T. Geluk, Siemens Industry Software NV, Belgium
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Endurance tests of electronic suspension for motorcycles – a system approach
Frederik Harnischmacher, KTM AG, Austria; Prof. Dr. T. Kuttner, Department of Mechanical Engineering, University of Federal Armed Forces Munich
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Innovative software functions to operate electric power steering systems in sports cars – Unterstüzungskraftregelung (UKR)
Dr. Christoph Bittner, A. Uselmann, K. M. Krüger, G. Rivera,
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Alessandro Contini, Prof. Dr. P. E. Pfeffer,
Munich University of Applied Sciences; M. Lugert, T. Schöning,
Hyundai Motor Europe Technical Center GmbH

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DMecS Development of Mechatronic Systems GmbH & Co. KG;
T. Schubert, Prof. Dr. H. Henrichfreise,
Cologne Laboratory of Mechatronics (CLM),
Cologne University of Applied Sciences
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Dr. Ralf Stroph, S. Gielisch, Dr. A. Pruckner, BMW Group

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Real-time simulation of braking interventions in heavy commercial vehicles
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