	Vehicle Aerodynamics Subscription
2005-01-0544	Development of Numerical Simulation Method of Flow Around Automobile Using Meshfree Method
2005-01-0545	A Downforce Optimization Study for a Racing Car Shape
2005-01-0546	Numerical Investigation of Road Vehicle Aerodynamics Using the Immersed Boundary RANS Approach
2005-01-0547	CFD Simulations for Flow Over Pickup Trucks
2005-01-0548	Aerodynamics of a Generic Ground Transportation System: Detached Eddy Simulation
2005-01-0549	Vortex Method Simulation of Ground Vehicle Aerodynamics
2005-01-0601	Study on the Fan Noise Reduction for Automotive Radiator Cooling Fans
2005-01-0602	Computational Analysis and Design to Minimize Vehicle Roof Rack Wind Noise
2005-01-0603	Attempts for Reduction of Rear Window Buffeting Using CFD
2005-01-0604	Experimental Study of Unsteady Wakes Behind an Oscillating Car Model
2005-01-0605	Wind Noise Reduction of Vehicles Using Underbody Acoustic Holography
2005-01-0606	Experimental Study for Applicable Limit of Acoustic Analogy to Predict Aero-Acoustic Noise of Commercial Vehicles
2005-01-0607	A Numerical Study of High-Lift Single Element Airfoils with Ground Effect for Racing Cars
2005-01-0867	The Influence of a Horizontal Pressure Distribution on Aerodynamic Drag in Open and Closed Wind Tunnels
2005-01-0868	Further Assessment of Closed-Wall Wind Tunnel Blockage Using CFD
2005-01-0869	Vortex Drag for a Simple Bluff Body at Incidence in Ground Proximity
2005-01-0870	Uncertainty Analysis of Aerodynamic Coefficients in an Automotive Wind Tunnel
2005-01-0871	Comparison of Aerodynamic Measurements on a Full-Scale NASCAR in Open and Closed Jet Test Sections
2005-01-0872	Induced Drag of Ground Vehicles and Its Interaction with Ground Simulation
2005-01-1016	Fuel Savings by Means of Flaps Attached to the Base of a Trailer: Field Test Results
2005-01-1017	Reduction of the Aerodynamic Drag Due to Cooling Systems: An Analytical and Experimental Approach
2005-01-1018	An Investigation of the Sensitivity of Rear Wing Orientation for Saloon Race Cars
2005-01-1455	Aerodynamics and Aeroacoustics of Passenger Cars in a Controlled High Turbulence Flow: Some New Results
2005-01-1456	On-Road Aerodynamic Drag Analysis by Simultaneous Linear Inversion of the Equation of Motion
2005-01-1457	Correlation Tests Between Japanese Full-Scale Automotive Wind Tunnels Using the Correction Methods for Drag Coefficient
2006-01-0137	CFD Simulation of Side Glass Surface Noise Spectra for a Bluff SUV
2006-01-0138	Optimization Study for Sunroof Buffeting Reduction
2006-01-0139	Assessment of Reynolds Averaged Turbulence Models in Predicting Flow Structure Behind a Generic Automobile Body
2006-01-0337	CFD Application in Automotive Front-End Design
2006-01-0338	The Measurement of Transient Aerodynamics Using an Oscillating Model Facility

2006-01-0339	Cooling Drag of Ground Vehicles and Its Interaction with Ground Simulation
2006-01-0340	A Novel Test Rig for the Aerodynamic Development of a Door Mirror
2006-01-0341	The Effect of Rear Slant Angle on Vehicle Wakes and Implications for Platoons
2006-01-0342	Reduced Drag and Adequate Cooling for Passenger Vehicles Using Variable Area Front Air Intakes
2006-01-0343	Evaluation of Wind Noise Sources Using Experimental and Computational Methods
2006-01-0565	Support Strut Interference Effects on Passenger and Racing Car Wind Tunnel Models
2006-01-0566	The Development of a Passive Magnetic Levitation System for Wind Tunnel Models
2006-01-0567	Wake Related Wind Tunnel Corrections for Closed Wall Test Sections
2006-01-0568	A Two-Measurement Correction for the Effects of a Pressure Gradient on Automotive, Open-Jet, Wind Tunnel Measurements
2006-01-0569	Upgrade of the Pininfarina Wind Tunnel – The New "13-Fan" Drive System
2006-01-0803	Experimental Study on the Influence of Model Motion on the Aerodynamic Performance of a Race Car
2006-01-0804	On CFD Investigations of Vehicle Aerodynamics with Rotating Wheels' Simulation
2006-01-0805	Aerodynamic Forces of Exposed and Enclosed Rotating Wheels as an Example of the Synergy in the Development of Racing and Passenger Cars
2006-01-0806	Aerodynamics for Formula SAE: Initial Design and Performance Prediction
2006-01-0807	Use of Computational Fluid Dynamics for the Design of Formula SAE Race Car Aerodynamics
2006-01-0808	Aerodynamics for Formula SAE: A Numerical, Wind Tunnel and On-Track Study
2006-01-0809	CFD Analysis of the American Challenger Rocket Car
2006-01-1027	¼ Scale Vehicle Wake Pattern Analysis using Near-Wall PIV
2006-01-1028	A Review of Measurement of Ambient Turbulence with Respect to Ground Vehicles
2006-01-1029	On the Optimisation of Road Vehicle Leading Edge Radius in Varying Levels of Freestream Turbulence
2006-01-1030	Characteristics of Flow Behind a Passenger Vehicle
2006-01-1031	Simulation of Transient Phenomena with the Turbulence Generation System in the Pininfarina Wind Tunnel
2006-01-1032	Periodic Structures within the Formation Region of Trailing Vortices
2007-01-0100	Multi-Disciplinary Aerodynamics Analysis for Vehicles: Application of External Flow Simulations to Aerodynamics, Aeroacoustics and Thermal Management of a Pickup Truck
2007-01-0101	Exterior Water Management Using a Custom Euler-Lagrange Simulation Approach
2007-01-0102	Virtual Aerodynamic Engineering at GM Europe Development of the 2006 OPEL Corsa
2007-01-0103	Large Eddy Simulation on the Underbody Flow of the Vehicle with Semi-Complex Underbody Configuration
2007-01-0104	Experimental Investigations and Computations of Unsteady Flow Past a Real Car Using a Robust Elliptic Relaxation Closure with a Universal Wall Treatment
2007-01-0105	CFD-based Robust Optimization of Front-end Cooling Airflow
2007-01-0106	Large Eddy Simulation of Unsteady Flow Around a Formula Car on Earth Simulator

2007-01-0107	The Influence of Rotating Wheels on Vehicle Aerodynamics - Numerical and Experimental Investigations
2007-01-0108	Experimental and Numerical Analysis of the Effect of Side Wind on a Simplified Car Model
2007-01-0109	The Immersed Boundary CFD Approach for Complex Aerodynamics Flow Predictions
2007-01-0110	A CFD Application of Surface Morphing for Vehicle Exterior Development
2007-01-0111	Dynamic Moving Mesh CFD Study of Semi-truck Passing a Stationary Vehicle with Hood Open
2007-01-0897	Aerodynamics for Formula SAE: On-Track Performance Evaluation
2007-01-0898	A Comparison Between On-Road and Wind Tunnel Surface Pressure Measurements on a Mid-Sized Hatchback
2007-01-0899	Pressure Fluctuations on Automotive Rear View Mirrors
2007-01-0900	Observation of Flow Asymmetry Over the Rear of Notchback Vehicles
2007-01-0902	A New Technique to Measure the Aerodynamic Response of Passenger Cars by a Continuous Flow Yawing
2007-01-1043	Upgrade of the Volvo Cars Aerodynamic Wind Tunnel
2007-01-1044	The New Moving Ground System of the Pininfarina Wind Tunnel
2007-01-1045	CFD Investigations of Wind Tunnel Interference Effects
2007-01-1046	Detailed Analysis of the Bluff Body Blockage Phenomenon in Closed Wall Wind Tunnels Utilizing CFD
2007-01-1047	The Influence of Rotating Wheels on Total Road Load
2007-01-1048	Advantages of Adaptive Wall Wind Tunnel Technology: A CFD Study for Testing Open Wheel Race Cars
2007-01-1050	Recent Literature on Wind Tunnel Test Section Interference Related to Ground Vehicle Testing
2007-01-1236	The Unsteady Wind Environment of Road Vehicles, Part One: A Review of the On-road Turbulent Wind Environment
2007-01-1237	The Unsteady Wind Environment of Road Vehicles, Part Two: Effects on Vehicle Development and Simulation of Turbulence
2007-01-1547	Aerodynamic Performance of Vehicles in Platoons: The Influence of Backlight Angles
2007-01-1548	On Various Aspects of the Unsteady Aerodynamic Effects on Cars Under Crosswind Conditions
2007-01-1549	Laminar Flow Whistle on a Vehicle Side Mirror
2007-01-1550	Modeling and Calibration of an Aerodynamic Cross-Wind Gust Test Facility
2007-01-1551	Aeroacoustic Measurements in Turbulent Flow on the Road and in the Wind Tunnel
2007-01-1552	Sunroof Buffeting Suppression Using a Dividing Bar
2008-01-0096	Application of Emergent Aerodynamic Calculation Tools
2008-01-0097	Development of a Model Scale Heat Exchanger for Wind Tunnel Models of Road Vehicles
2008-01-0098	Correlation of a CAE Hood Deflection Prediction Method
2008-01-0099	On the Aerodynamics of the Racing Cars
2008-01-0100	Study on Influence of Mesh Parameters on Vehicle Aerodynamic Drag Coefficient

2008-01-0323	Comparison Between the Conventional Body-Fitted and the Lattice Boltzmann CFD Methods for the Flow around a Generic Pickup Truck
2008-01-0324	Simulation of Flow around a Generic Pickup Truck with RSM Model
2008-01-0325	CFD Validation Study for a Sedan Scale Model in an Open Jet Wind Tunnel
2008-01-0326	Exploratory Experimental Studies of Forces and Flow Structure on a Bluff Body with Variable Diffuser and Wheel Configurations
2008-01-0327	A Computational Study of Idealized Bluff Bodies, Wheels, and Vortex Structures in Ground Effect
2008-01-0472	On-Road Investigation of a Vehicle's Longitudinal Response to Wind Gusts
2008-01-0473	The Effect of Raised Freestream Turbulence on the Flow Around Leading Edge Radii
2008-01-0474	Effects of On-Road Turbulence on Vehicle Surface Pressures in the A-Pillar Region
2008-01-0475	On-road Turbulence
2008-01-0476	Experimental Characterization of the Unsteady Flow Field behind Two outside Rear View Mirrors
2008-01-0656	Aerodynamics of High-Lift Wings with Ground Effect for Racecars
2008-01-0657	The Influence of Motion Aerodynamics on the Simulation of Vehicle Dynamics
2008-01-0658	The Aerodynamic Characteristics of a Race Car Wing Operating in a Wake
2008-01-0659	CFD Simulation of NASCAR Racing Car Aerodynamics
2008-01-0737	The Effect of Backlight Aspect Ratio on Vortex and Base Drag for a Simple Car-Like Shape
2008-01-0738	Numerical and Experimental Analysis of Unsteady Separated Flow behind an Oscillating Car Model
2008-01-0739	Wind Tunnel Study on the "Wake Bubble" of Model Truck
2008-01-0740	Lattice Boltzmann Simulations of the Unsteady Flow Behind the Ahmed Body
2008-01-0796	Investigations in a Cooling Air Flow System under the Influence of Road Simulation
2008-01-0800	Vehicle Exterior Aerodynamic Development Using Design of Experiments (DOE)
2008-01-0801	Development of a Prediction Method for Passenger Vehicle Aerodynamic Lift using CFD
2008-01-0802	Experimental Analysis of the Underbody Pressure Distribution of a Series Vehicle on the Road and in the Wind Tunnel
2008-01-1201	Boundary Interference of High Blockage Models in Open Jet Test Sections
2008-01-1202	Measuring of Long Truck Models in a Wind Tunnel with External Balance
2008-01-1203	Calculations of Wind Tunnel Circuit Losses and Speed with Acoustic Foams
2008-01-1204	The Two-Variable Boundary-Interference Correction Applied to Automotive Aerodynamic Data
2008-01-1205	A Correlation Study between the Full Scale Wind Tunnels of Chrysler, Ford, and General Motors
2008-01-1206	Experimental Investigations of Effects of Collector on Performances of Automotive Wind Tunnel
2009-01-0001	The Effect of High Turbulence Intensities on Surface Pressure Fluctuations and Wake Structures of a Vehicle Model
2009-01-0002	On-road Turbulence: Part 2
2009-01-0003	The Effect of Free Stream Turbulence on A-pillar Airflow

2009-01-0004	Flow Structures above the Trunk Deck of Sedan-Type Vehicles and Their Influence on High-Speed Vehicle Stability 1st Report: On-Road and Wind-Tunnel Studies on Unsteady Flow Characteristics that Stabilize Vehicle Behavior
2009-01-0005	Analysis of a Vehicle's Longitudinal Response to an Unsteady Wind Environment
2009-01-0006	Flow Structures above the Trunk Deck of Sedan-Type Vehicles and Their Influence on High-Speed Vehicle Stability 2nd Report: Numerical Investigation on Simplified Vehicle Models using Large-Eddy Simulation
2009-01-0007	Development of an Unsteady Aerodynamic Simulator Using Large-Eddy Simulation Based on High-Performance Computing Technique
2009-01-0180	Scaling Laws in Automotive Aeroacoustics
2009-01-0181	Window Buffeting Measurements of a Full Scale Vehicle and Simplified Small Scale Models
2009-01-0182	Side Window Buffeting Investigation by Stereoscopic Particle Image Velocimetry in Low and High Turbulence Regime
2009-01-0183	Helmholtz Resonators Acting as Sound Source in Automotive Aeroacoustics
2009-01-0184	Wind Noise Measurements for Automotive Mirrors
2009-01-0185	Lessons Learned from a Full-Scale Real World Wind Noise Modeling Project
2009-01-0331	Proper Orthogonal Decomposition of Flow Structures around a Surface-Mounted Cube Computed with Detached-Eddy Simulation
2009-01-0332	A CFD Approach via Large Eddy Simulation to the Flow Field with Complex Geometrical Configurations: A Study Case of Vehicle Underbody Flows
2009-01-0333	Application of Detached-Eddy Simulation for Automotive Aerodynamics Development
2009-01-0334	Implementation of Immersed Boundary Method for Rapid and Reliable External Flow Simulations in Automotive
2009-01-0335	Rapid Meshing for CFD Simulations of Vehicle Aerodynamics
2009-01-0775	Computational and Experimental Investigation of the Flow Structure and Vortex Dynamics in the Wake of a Formula 1 Tire
2009-01-0776	The Effect of Center Belt Roughness on Vehicle Aerodynamics
2009-01-0777	The Effects of Detailed Tire Geometry on Automobile Aerodynamics - a CFD Correlation Study in Static Conditions
2009-01-0778	Detailed Flow Studies in Close Proximity of Rotating Wheels on a Passenger Car
2009-01-1155	CFD Analysis of Airflow around the Rider of a Motorcycle for Rider Comfort Improvement
2009-01-1157	CFD Study Concerning the Influence of the Underbody Components on Total Drag for a SUV
2009-01-1161	Further Analysis of Pickup Trucks Aerodynamics
2009-01-1162	The Appropriate Use of CFD in the Automotive Design Process
2009-01-1166	Application of Functional Design Method to Road Vehicle Aerodynamic Optimization in Initial Design Stage
2009-01-1167	Aerodynamics of a Pickup Truck: Combined CFD and Experimental Study
2009-01-1169	Heavy Vehicle Wheel Housing Flows - a Parametric Study
2010-01-0118	The BMW AVZ Wind Tunnel Center
2010-01-0119	Computational Study of Flow in the Underbody Diffuser for a Simplified Car Model
2010-01-0120	The Application of Particle Image Velocimetry in Automotive Aerodynamics.
2010-01-0122	Investigation of the Bed and Rear Flap Variation for a Low-Drag Pickup Truck using Design of Experiments

2010-01-0285	A Computational Approach to Evaluate the Vehicle Interior Noise from Greenhouse Wind Noise Sources
2010-01-0286	A New Approach to Analyzing Cooling and Interference Drag
2010-01-0287	Integrated Numerical and Experimental Approach to Determine the Cooling Air Mass Flow in Different Vehicle Development Stages
2010-01-0288	Interference between Engine Bay Flow and External Aerodynamics of Road Vehicles
2010-01-0289	The Effects of Unsteady On-Road Flow Conditions on Cabin Noise
2010-01-0290	Investigation of Aerodynamic Performance due to the Interaction between the Rear Diffuser Angle and the Cooling Airflow Outlet
2010-01-0510	The Optimization of Roof Trailing Edge Geometry of a Simple Square-Back.
2010-01-0511	Aerodynamic Shape Improvement Based on Surface Pressure Gradients in the Stream-wise and the Transverse Directions
2010-01-0512	The Effect of Base Bleed and Rear Cavities on the Drag of an SUV
2010-01-0513	Automotive Aerodynamic Design Exploration Employing New Optimization Methodology Based on CFD
2010-01-0755	Effects of Ground Simulation on the Aerodynamic Coefficients of a Production Car in Yaw Conditions
2010-01-0756	Further CFD Studies for Detailed Tires using Aerodynamics Simulation with Rolling Road Conditions
2010-01-0757	Aerodynamic Drag Simulation and Validation of a Crossover
2010-01-0758	Numerical Simulation with a DES Approach
2010-01-0759	A Wind Tunnel Study Correlating the Aerodynamic Effect of Cooling Flows for Full and Reduced Scale Models of a Passenger Car
2010-01-0760	CFD Approach to Evaluate Wind-Tunnel and Model Setup Effects on Aerodynamic Drag and Lift for Detailed Vehicles
2010-01-1010	HPC-LES for Unsteady Aerodynamics of a Heavy Duty Truck in Wind Gust - 1st report: Validation and Unsteady Flow Structures
2010-01-1011	CFD-based Modelling of Flow Conditions Capable of Inducing Hood Flutter
2010-01-1021	HPC-LES for Unsteady Aerodynamics of a Heavy Duty Truck in Wind Gust - 2nd report: Coupled Analysis with Vehicle Motion
2010-01-1025	A Relationship between Lift and Lateral Aerodynamic Characteristics for Passenger Cars

Paper listing as of 01/11/2011