

ANSA and META references in the CFD literature

physics on screen

"Aerodynamic Development of an LMH Car using ANSA and META"

G. Alberati, Micheletto Engineering SpA Presented at the BETA CAE Systems 2024 Italian Open Meeting, May 28, 2024

"CFD Automation for Moto GP"

D. Aresta, Ducati Corse Presented at the BETA CAE Systems 2024 Italian Open Meeting, May 28, 2024

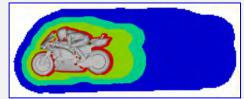
"CFD Pre and Post Processing Strategies for CFD of Ballistic Objects"

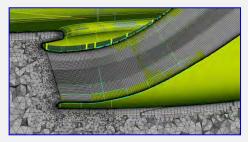
C. Rainone, G. Buccini, MBDA Italia SpA Presented at the BETA CAE Systems 2024 Italian Open Meeting, May 28, 2024

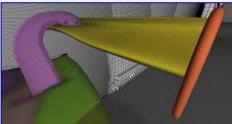
"Automatic pre/post-processing at Ferrari Sports Cars: A Continuous Improvement"

L. Cinquanta, L. Mariella, Ferrari Presented at the BETA CAE Systems 2024 Italian Open Meeting, May 28, 2024









"Automated Batch Mesh Methodology for CFD Meshing of Land/Air/Water vehicles"

M. Maganzi, M. Signorini, Cubit Innovation Labs Presented at the BETA CAE Systems 2024 Italian Open Meeting, May 28, 2024

"Simulation of Centrifugal Pumps for Automotive Applications"

M. Ghisalberi, Saleri Presented at the BETA CAE Systems 2024 Italian Open Meeting, May 28, 2024

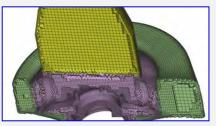
"BETA CAE Systems software as enabler for automation and optimization"

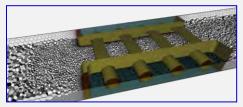
I. Gozza, G. Credo, Dumarey Automotive Italia Presented at the BETA CAE Systems 2024 Italian Open Meeting, May 28, 2024

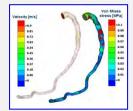
"Pre and Post-Processing for Epicardial Coronaries Fluid-Structure Interaction Simulations"

V. Lissoni. LaBS Polimi Presented at the BETA CAE Systems 2024 Italian Open Meeting, May 28, 2024









"CFD Aided Investigation of a Small Horizontal Wind Turbine Performance Enhancement using Riblets"

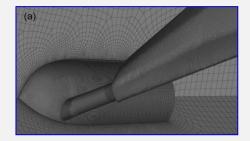
C. Bliamis et al., Aristotle University of Thessaloniki, Greece Chemical Engineering Transactions, Vol 103, 2023

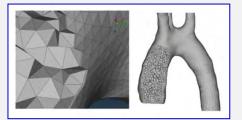
"Comparative Analysis of a Patient-Specific Aortic Dissections through CFD suggests increased likelihood of Degeneration in Partially Thrombosed False Lumen"

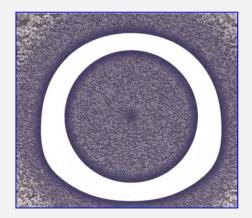
S. Moretti et al., University of Tuscia, Italy Bioengineering, 2023, https://doi.org/10.3390/bioengineering10030316

"Isotropic and Anisotropic Mesh Adaption for RANS simulations of a nacelle under cross wind conditions"

L. Billon et al., Safran Tech, France Journal of Global Power and Propulsion Society, 2023, https://doi.org/10.33737/jgpps/162640







"Automation of pre- and post-processing in Ferrari GT cars project"

R. Curatola, L. Mariella, Ferrari SpA Presented at the BETA CAE Systems 2022 European Open Meeting, March 29-30, 2022

"SAVANT: Automated CFD meshing with ANSA"

L. Agricola, Corvid Technologies Presented at the BETA CAE Systems 2022 North America Open Meeting, October 5, 2022

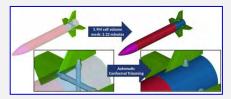
"CFD Modeling of the Melting Behavior of a Fayaltic Slug"

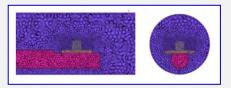
D. Obiso, TU Bergakademie, Freiberg, Germany JOM, Vol 74, No. 4, 2022, https://doi.org/10.1007/s11837-022-05185-4

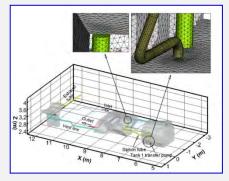
"Transient CFD Analysis of fuel siphoning under a sudden inertial load"

K. Bae et al., Korea Aerospace Industries Nature Scientific Reports, 2022, https://doi.org/10.1038/s441598-022-07572-y









"ANSA for high fidelity CFD mesh generation"

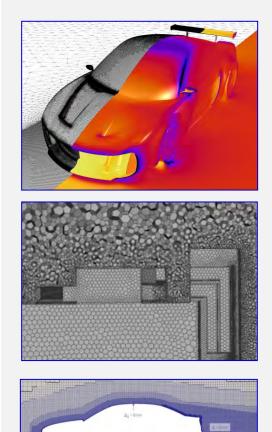
L. Agricola, Corvid Technologies Presented at the BETA CAE Systems 2021 North America Open Meeting, December 7-8, 2021

"Assessment of harmful exhaust gases dispersion in the nearby of building HVAC system elements using CFD"

G. Piscitelli et al., RINA Consulting S.p.A. Presented at the International CAE Conference, Vicenza, Italy, November 17-19, 2021

"Evaluation of DES with enhanced shielding for complex automotive aerodynamics"

C. Mockett et al, Upstream CFD Presented at the 2nd High Fidelity Industrial LES/DNS Symposium HiFILeD, September 22-24, 2021



"Committee grids for Case 2"

V. Skaperdas, BETA CAE Systems Presented at the 2nd Automotive CFD Prediction Workshop, August 26-27, 2021

"University of Oxford Submission Case 2a and 2b"

N. Ashton, Oxford University Presented at the 1st Automotive CFD Prediction Workshop, Oxford UK, December 11-12, 2019

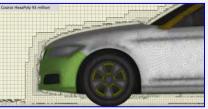
"Aerodynamic Datasets generation by means of CFD "

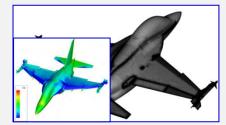
D. Muffo, Leonardo Company, Italy M. Di Nonno, BETA CAE Italy Presented at the 35th International CAE Conference, Vicenza Italy, October 28-29, 2019

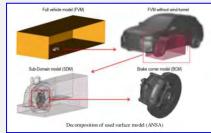
"A CFD method to simulate brake liquid and disc temperature monolithically"

S. Yigit et al, Opel Automobile GmbH C. Ribes, PSA Presented at the 12th FKFS Conference, Munich, Stuttgart, October 1-2, 2019









"Aspects of fan modeling for underhood thermal management CFD"

M. Kornhaas et al, Opel Automobile GmbH C. Ribes et al, PSA Presented at the 12th FKFS Conference, Munich, Stuttgart, October 1-2, 2019

"Aeroacoustic prediction of a three-element high-lift airfoil using a greyarea enhanced DES model"

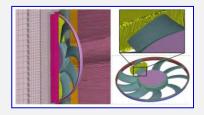
M. Fuchs et al, CFD Software E+F GmbH, Germany Presented at the 25th AIAA/CEAS Aeroacoustics Conference, Delft, May 20-23, 2019, AIAA 2019-2462

"Automation in pre- and post-processing in Ferrari GT cars project"

L. Mariella, R. Curatola, Ferrari S.p.A. Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019

"The pre-processing priority in fluid dynamics design"

M. Maganzi et al., Cubit Innovation Labs Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019









"Building a full UAV aerodynamic database using ANSA pre-processor automated meshing tool"

D. Gillad, Elbit Systems - ISTAR Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019

"Investigation of aerodynamic loading on a train pantograph"

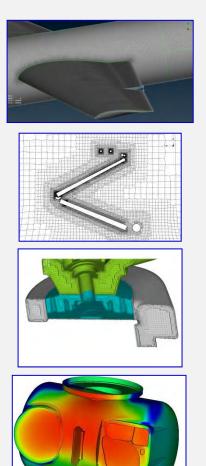
K. Ritos et al., University of Strathclyde Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019

"Multidisciplinary simulation of automotive water pumps"

R. De Donno, Industrie Saleri Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019

"External flow analysis (CFD) for an Airborne Gimbal"

D. Lozano, Elbit Systems - ISTAR Presented at the 8th BETA International Conference, Munich, Germany, May 20-22, 2019



"Contribution of BETA-CAE to GMGW-2"

V. Skaperdas, BETA CAE Systems Presented at the 2nd AIAA Geometry and Mesh Generation Workshop, San Diego, USA, January 5-6, 2019

"Industrial prediction of jet-flap interaction noise with advanced hybrid RANS-LES methods"

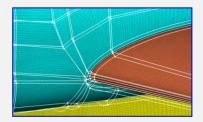
C. Mockett et al. , CFD Software E+F GmbH, Germany Presented at the 7th Symposium on Hybrid RANS-LES Methods, Berlin, Germany, September 17-19, 2018

"Investigation of RANS modelling techniques applied to the 3rd AIAA High Lift Prediction workshop test cases"

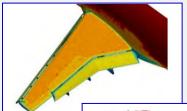
M. Zastawny et al., Siemens PLM Software, UK Presented at RAeS The Future of Aerodynamics Conference, Bristol, UK, June 24-26, 2018

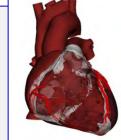
"Fully coupled fluid-electro-mechanical model of the human heart for supercomputers"

A. Santiago et al., Barcelona Supercomputing, Spain International Journal of Numerical Methods in Biomedical Engineering, 2018









"Embraer contribution to GMGW-1"

M. Souza et al., Embraer, Brazil Presented at the 1st AIAA Geometry and Mesh Generation Workshop, Denver, USA, June 3-4, 2017

"University of Oxford - BETA-CAE Systems contribution to HLPW-3"

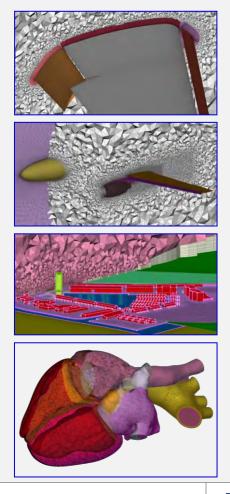
N. Ashton, Oxford Univeristy, UK Presented at the 3rd AIAA High Lift Prediction Workshop, Denver, USA, June 3-4, 2017

"The challenge of many different applications solved by ANSA"

T. Fahner, Actiflow, The Netherlands Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017

"Mesh generation for geometries in biomechanics"

S. Gomez, Barcelona Supercomputing, Spain Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017



"Utilizing ANSA and META scripting capabilities for propeller generation, evaluation and post-processing"

L. Johansson, Volvo Penta, Sweden Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017

"ANSA pre-processing strategies for multiphysics simulation of a motorcycle helmet"

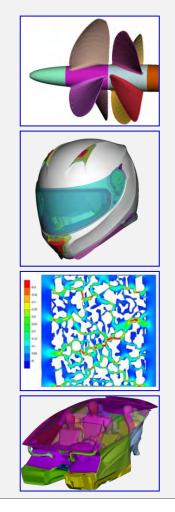
M. Pischiutta, Nolan, Italy Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017

"Influence of micro-CT extracted 3D porous media geometry on CFD simulation results"

M. Aboukhedr, City University of London, UK Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017

"Application of ANSA morphing and optimization tools for an automotive HVAC system"

M. Maganzi, University of Pisa, Italy Presented at the 7th BETA International Conference, Thessaloniki, Greece, May 30 - June 1, 2017



"Customized developments for AUDI's OpenFOAM processes"

R.Borris, AUDI AG, Germany Presented at the 4th ESI OpenFOAM Conference, Cologne, Germany, October 11-12, 2016

"Assessment of enhanced aeroacoustics features in OpenFOAM for landing gear noise prediction"

C. Mockett et al. , CFD Software E+F GmbH, Germany Presented at the 4th ESI OpenFOAM Conference, Cologne, Germany, October 11-12, 2016

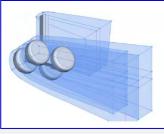
"Drag prediction workshop 6"

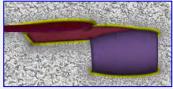
N. Ashton et al., University of Oxford, UK Presented at the 6th AIAA CFD Drag Prediction Workshop, Washington D.C., USA, June 2016

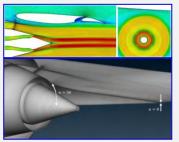
"Turbulence modelling and meshing developments for the prediction of jet noise installation effects"

C. Mockett et al. , CFD Software E+F GmbH, Germany Presented at the 22nd AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30 – June 1, 2016 (AIAA 2016-2933)









"The influence of mesh characteristics on OpenFOAM simulations of the DrivAer model"

G. Fotiadis et al. , BETA CAE Systems, Greece Presented at the Thermal Systems and Aerodynamic Solutions for Ground Vehicles, ATA Conference, Torino, Italy, 17-19 June, 2015

"The tetrahedral finite cell methods for fluids: Immersogeometric analysis of turbulent flow around complex geometries"

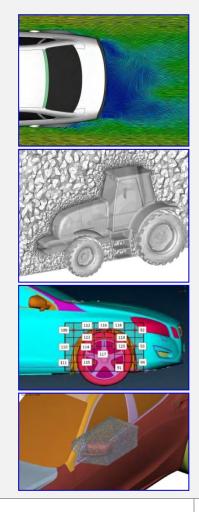
F. Xu et al. , Iowa State University, Ames, USA Journal of Computers and Fluids 2015.08.027, June 2015

"Numerical and experimental investigations of brake cooling for passenger cars"

A. Vdovin, Chalmers University of Technology, Sweden Presented at the 2nd European Conference for Thermal Systems and Aerodynamic Solutions for Ground Vehicles, Torino, 17-19 June 2015

"Efficient simulation of aerodynamic noise generation and propagation from a vehicle's side mirror"

R. Rizzuto, FIAT Chrysler Automobiles, Italy Presented at the 2nd European Conference for Thermal Systems and Aerodynamic Solutions for Ground Vehicles, Torino, 17-19 June 2015



"Adjoint optimization of a coolant pump impeller"

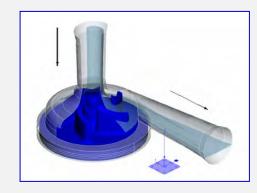
S. Baumbach, Volkswagen AG, Germany Presented at the 11th World Congress on Computational Mechanics, Barcelona, 20-25 July 2014

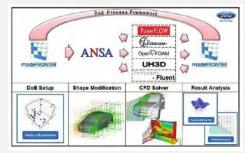
"Aerodynamic and Flow Simulations come of age"

B. Morey Automotive Engineering, April 2014

"Design, performance evaluation and optimization of a UAV"

S. Kontogiannis and J. Ekaterinaris, University of Patras, Greece AIAA 2013-0357 Presented at the 51st AIAA Aerospace Sciences Meeting, Grapevine, Texas, 7-10 January 2013







"The influence of mesh characteristics on CFD simulations for automotive applications"

V. Skaperdas, A. Iordanidis, BETA CAE Systems S.A., Greece Presented at the ANSYS Automotive Simulation Congress Group, Frankfurt am Main, 29-30 October 2013

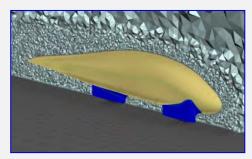
"A revolution in solar vehicle design"

R. Stephens, Cambridge University, UK Presented at the ANSYS Automotive Simulation Congress Group, Frankfurt am Main, 29-30 October 2013

"Aerodynamic simulation in the development of a WRC Rally Car"

H. Dechipre, Volkswagen Motorsport GmbH, Germany Presented at the Open Source CFD International Conference, Hamburg, 24-25 October 2013







"Mapping of cavitating flow regimes in injectors for medium/heavy-duty diesel engines"

N. Mitroglou, M. Gavaises, City University, UK International Journal of Engine Research DOI:10.1177/1468087413500491, 24 October 2013

"CFD thermodynamic analysis of 3-dimensional sector-pad thrust bearings with rectangular dimples"

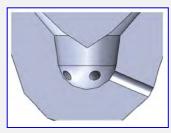
C. Papadopoulos, L. Kaiktsis, NTUA, Greece M. Fillon, ISAE-ENSMA, France *Journal of Tribology, ASME DOI:10.1115/1.4025245, 3 October 2013*

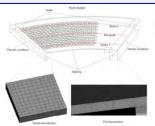
"Time resolved adaptive FEM simulations of a DLR F11 full aircraft at a realistic Reynolds number"

J. Hoffman et al., KTH, Sweden Presented at the 2nd AIAA High Lift Prediction Workshop, San Diego CA, USA, 22-23 June 2013

"Multi function CFD model creation: A step towards simulation data management"

D. Wellman, Jaguar Land Rover, UK Presented at 2013 NAFEMS World Congress, Saltsburg, Austria, 10-12 June 2013









"An accurate, extensive, and rapid method for aerodynamics optimization: The 50:50:50 Method"

T. Virdung, ANSYS, Sweden Presented at the NAFEMS Nordic Conference, Gothenburg, Sweden, 22-23 May 2012

"Managing Form, Function and Process, the Aerodynamic Development of the 2011 Ford Ranger Global Compact Pick-Up with STAR-CCM+"

N. Lewington et. al., Ford Motor Company, Australia Presented at STAR Global Conference, Amsterdam, Netherlands, 19-21 March 2012

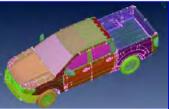
"Computations of aeroacoustic sources for a complex landing gear geometry using adaptive FEM"

R. V. De Abreu, N. Jansson, J Hoffman., KTH, Sweden Presented at Workshop on Benchmark problems for Airframe noise computations, BANC -II, Colorado Springs, USA, 7-8 June 2012

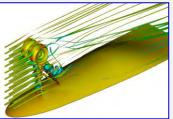
"Mesh study for external aerodynamics CFD simulations with OpenFOAM"

V. Skaperdas, A. Iordanidis., BETA CAE Systems S.A. , Greece Presented at Open Source CFD International Conference, London, UK, 29-30 October 2012









"Wind Turbine Blade CFD & Mechanical Optimization using Industrial Grade Tools"

D. Speziani et. al., Phitec Ingeneria Srl, Italy Presented at 4th Open Source CFD International Conference, Chantilly, France, November 2011

"CFD Optimization via Sensitivity Based Morphing"

C. Othmer, Volkswagen AG, Germany

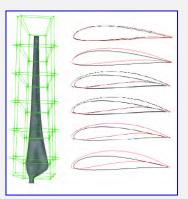
E. Papoutsis, National Technical University of Athens, Greece K. Haliskos, BETA CAE Systems S.A., Greece Presented at the 4th ANSA & µETA International Conference, Makedonia Palace, Thessaloniki, Greece, 1-3 June 2011

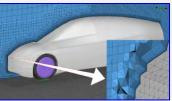
"CFD Simulations of flow over NASA Trap Wing Model"

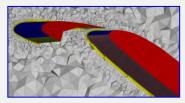
A. Luo, Swift Engineering, USA P. Peddiraju, V. Skaperdas, BETA CAE Systems S.A., Greece Presented at the 4th ANSA & μETA International Conference, Makedonia Palace, Thessaloniki, Greece, 1-3 June 2011

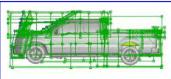
"Vehicle Aerodynamic Shape Optimization"

R. Lietz, Ford Motor Co., USA SAE 2011-01-0169









"Thermal simulation of an exhaust manifold in a high performance diesel engine"

C. Krenn, G. Hofer, M. Prosi, C. Samhaber, G. Pessl BMW Motoren GmbH, Austria University of Applied Science, FH Wels, Austria, *Presented at the STAR European Conference Noordwijk, The Netherlands, 22-23 March 2011*

"CFD Analysis of the performance of a fast catamaran with rough sea"

G. Lombardi, M. Maganzi University of Pisa, Italy Presented at the STAR European Conference, Noordwijk, The Netherlands, 22-23 March 2011

"Further CFD validation for automotive aerodynamics development"

T. Schutz, P. Unterlechner, K. Zens, AUDI AG., Germany Presented at the 4th Open Source CFD International Conference, Munich, Germany, 4-5 November 2010

"Optimization for Improved Propulsive Efficiency and Increased Bollard Pull"

T. Huuva, M. Pettersson Berg Propulsion, Sweden Presented at the 13th Numerical Towing Tank Symposium, Duisburg, Germany, 10-12 October 2010



"Effects of wheel orientation on predicted flow field and forces when modelling rotating wheels using CFD"

C. Landstrom, L. Lofdahl, Chalmers Technical University, Sweden S. Sebben, Volvo Car Corporation, Sweden Presented at the 8th MIRA International Vehicle Aerodynamics Conference RBS Williams F1 Conference Centre, UK, 13-14 October 2010

"Application of multi objective optimization to the aerodynamic development of passenger cars at FIAT"

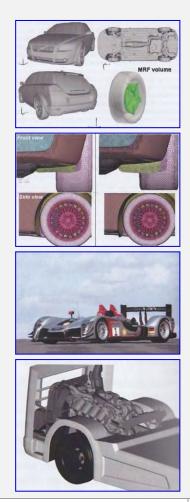
E. Ribaldone et. al., Centro Ricerche FIAT, Italy G. Scantamburlo et. al., FIAT, Italy Presented at the 8th MIRA International Vehicle Aerodynamics Conference RBS Williams F1 Conference Centre, UK, 13-14 October 2010

"Validation of open source CFD methods used for race cars"

P. Rubio, R. Bouwman, ICON Technology & Process Consulting GmbH, Germany B. Jacquet AUDI AG., Germany Presented at the 8th MIRA International Vehicle Aerodynamics Conference RBS Williams F1 Conference Centre, UK, 13-14 October 2010

"Flow field investigation of the wheel housing opening shape on a heavy truck using CFD"

D. Soderblom, L. Lofdahl, Chalmers Technical University, Sweden P. Elofsson, Scania, Sweden, L. Hjelm, Volvo 3P, Sweden Presented at the 8th MIRA International Vehicle Aerodynamics Conference RBS Williams F1 Conference Centre, UK, 13-14 October 2010



"Efficient and robust method of drag optimization during car body development process"

K. Przysowa, J. Rokicki, Warsaw University of Technology, Poland C. Othmer, Volkswagen AG, Germany Presented at the 8th MIRA International Vehicle Aerodynamics Conference RBS Williams F1 Conference Centre, UK, 13-14 October 2010

"Design and Analysis of a light cargo UAV prototype"

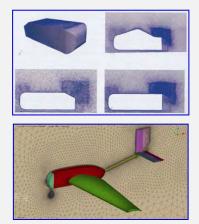
A. Kovanis, J. Ekaterinaris, University of Patras, Greece
V. Skaperdas, BETA CAE Systems SA, Greece
AIAA 2010-4957
Presented at the 28th Applied Aerodynamics Conference, Chicago Illinois, USA, June 2010

"Assessment of Various Environmental Thermal Loads on Passenger Thermal Comfort"

T. Han et. al., GM R&D Centre, USA A. Curran et. al., Thermoanalytics Inc., USA, *SAE 2010-01-1205*

"The virtual climatic wind tunnel project"

J. Arbiol, E. Aramburu IDIADA, Spain Presented at the STAR European Conference, London, UK, March 2010







"Free motion simulation of a sailing yacht in up-wind condition with rough sea"

G. Lombardi, M. Maganzi, A. Mariotti University of Pisa, Italy Presented at the STAR European Conference, London, UK, March 2010

"Automating the CFD Process at Swenox – a scripted story"

M. Christiansson, U. Engdar, Swenox AB and FS Dynamics, Sweden *Presented at STAR European Conference, London, UK, March* 2010

"Advanced pre-processing solutions for OpenFOAM"

V. Skaperdas, S. Saltiel, C. Kolovos, BETA CAE Systems S.A. Greece Presented at 3rd Open Source CFD International Conference, Barcelona, Spain, November 2009

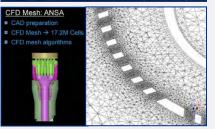
"Predicting and improving the performance of a bagless vacuum cleaner using CFD"

F. Campos, D. Sykes, ICON Ltd, UK J. Ferguson, Hoover Candy Group, UK Presented at 3rd ANSA & µETA International Conference, Porto Carras, Halkidiki, Greece, September 2009









"Aerodynamic Development of the Skoda Roomster"

J. Jagrik, S. Klepacek, J. Hulicka, V. Jakubec, Skoda AUTO A.S. Czech Republic *Presented at 7th MIRA Aerodynamics Conference, Coventry, UK, October 2008*

"Latest Development in Thermal Transient Simulation in Car Passenger Compartment"

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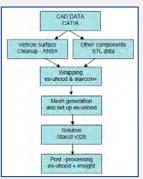
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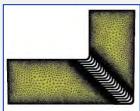
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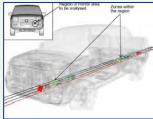
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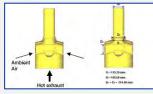
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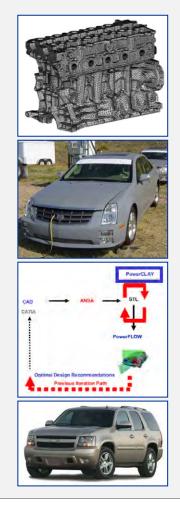
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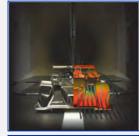
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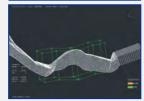
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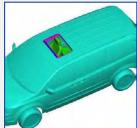
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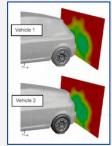
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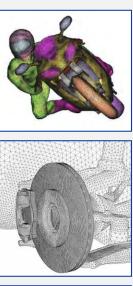
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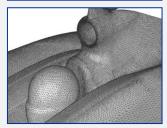
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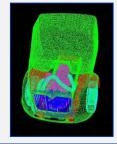
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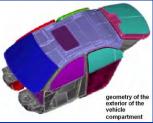
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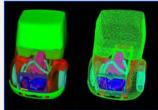
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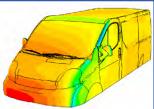
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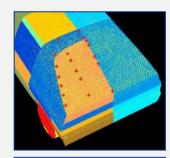
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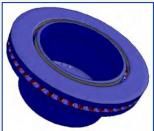
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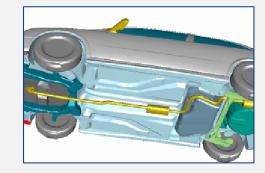
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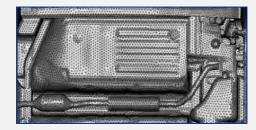
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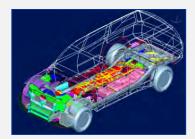
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