

2016

- 2016.01 ***Numerical Studies of Acoustic Diffraction by Rigid Bodies***, J. Hao, R. B. Kotapati, F. Pérot, A. Mann, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1.
- 2016.02 ***Turbofan Broadband Noise Prediction using the Lattice Boltzmann Method***, D. Casalino, A. Hazir, A. Mann, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.
- 2016.03 ***Rotating Coherent Flow Structures as a Source for Narrowband Tip Clearance Noise from Axial Fan***, T. Zhu, D. L. Lallier-Daniels, M. Sanjose, S. Moreau, T. H. Carolus, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.
- 2016.04 ***Airfoil Tip Leakage Aeroacoustics Predictions using a Lattice Boltzmann Based Method***, A. Mann, M.-S. Kim, J. Wu, F. Pérot, J. Grilliat, M. C. Jacob, M. Colman, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.
- 2016.05 ***Flow topology and noise emission around straight, serrated and slitted trailing edges using the Lattice Boltzmann methodology***, W. C. P. van der Velden, A.H. van Zuijlen, D. Ragni, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.
- 2016.06 ***Experimental Validation of Ducted Low-Speed Cooling Fan Noise Prediction Methods Including Broadband Scattering***, J. Christophe, K. Kucukcoskun, D. Lallier-Daniels, M. Sanjose, S. Moreau, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.
- 2016.07 ***Influence and modeling of OGV heterogeneity***, M. Sanjose, M. Pestana, S. Moreau, M. Roger, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.
- 2016.08 ***Simulation-Based Airframe Noise Prediction of a Full-Scale, Full Aircraft***, M. R. Khorrami, E. Fares, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.
- 2016.09 ***Airframe Noise Prediction of a Full Aircraft in Model and Full Scale Using a Lattice Boltzmann Approach***, E. Fares, B. Duda, M. R. Khorrami, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.
- 2016.10 ***Computational Evaluation of Airframe Noise Reduction Concepts at Full Scale***, M. R. Khorrami, B. Duda, A. Hazir, E. Fares, 22th AIAA/CEAS Aeroacoustics Conference, Lyon, France, May 30th-June 1st.

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- 2016.11 ***Total Noise Analysis of a Directional Drill***, J. Wu, R. Powell, A. Hermetet, C. Shue, S. Gangel, NOISE-CON16, Providence, RI, USA, June 13th-15th.
- 2016.12 ***Towards Simulation of Flow-Induced Noise in Exhaust Silencers***, B. Neuhierl, Internoise 2016, Hamburg, Germany, August 21st-24th.
- 2016.13 ***Towards Engine-Mounted Exhaust and Muffler Aeroacoustics Predictions Using a Lattice Boltzmann Based Method***, A. Mann, M.-S. Kim, S. Pan, B. Neuhierl, F. Pérot, J. A. Ocampo, FISITA 2016 World Automotive Congress, Busan, Korea, September 26th-30th
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- 2015.01 ***Numerical optimization of the tonal noise of a backward centrifugal fan using a flow obstruction - Part II: Flow obstruction optimization***, R. Pain, V. Le Goff, F. Pérot, M.S. Kim, A. Shestopalov, A. Learned Boucher, X. Carniel, Y. Goth, C. Chassaignon, Fan2015, Lyon, France, April 15-17.
- 2015.02 ***Towards a full digital approach for aeroacoustics evaluation of automotive engine cooling fans and HVAC blowers***, B. Le Henaff, D. Pihet, M. Piellard, V. Le Goff, Fan2015, Lyon, France, April 15-17.
- 2015.03 ***Computational analysis of noise generation and propagation mechanisms using the example of an HVAC blower***, B. Neuhierl, A. Felfoldi, Fan2015, Lyon, France, April 15-17.
- 2015.04 ***Aeroacoustic simulation of an axial fan including the full test rig by using LBM***, M. Sturm, M. Sanjosé, S. Moreau, T. Carolus, Fan2015, Lyon, April 15-17
- 2015.05 ***Tonal fan noise prediction and validation on the ANCF configuration***, M. Sanjosé, M. Daroukh, W. Magnet, J. De Laborderie, S. Moreau, A. Mann, Fan2015, Lyon, France, April 15-17.
- 2015.06 ***Experimental and numerical investigation of tip clearance noise of an axial fan using LBM***, T. Zhu, T. Carolus, Fan2015, Lyon, France, April 15-17.
- 2015.07 ***A numerical and experimental test-bed for low-speed fans***, S. Moreau, J. Foss, S. Morris, Fan2015, Lyon, France, April 15-17
- 2015.08 ***Aeroacoustic analysis of a low-subsonic axial fan***, M. Sanjosé, D. Lallier-Daniels, S. Moreau, TurboExpo 2015, GT2015-43737, Montreal, Canada, June 15-19
- 2015.09 ***Exhaust and muffler aeroacoustic predictions using LBM***, A. Mann, M.S. Kim, M. Meskine, F. Pérot, R. Powell, B. Neuhierl, SAE Noise & Vibration Conference, Grand Rapids, MI, USA, June 22-25

- 2015.10 ***A computational approach to assess buffeting and broadband noise generated by vehicle sunroofs***, N. Oettle, R. Powell, S. Senthoran, A. Bissell, M. Meskine, G. Balasubramanian, R. Powell, SAE World Congress , Detroit, MI, USA, April 21-23
- 2015.11 ***Flow-induced noise optimization of SUV HVAC system using a LBM***, A. Aissaoui, R. Tupake, V. Bijwe, M. Meskine, F. Pérot, A. Belanger, R.J. Vaidya, SAE Noise & Vibration Conference, Grand Rapids, MI USA, June 22-25
- 2015.12 ***Assessment of Broadband Noise Generated by Vehicle Sunroofs at Different Flow Conditions using a Digital Wind Tunnel***, N. Oettle, M. Meskine, A. Bissell, S. Senthoran, SAE Noise & Vibration Conference, Grand Rapids, MI, USA, June 22-25
- 2015.13 ***From exterior wind noise loads to interior cabin noise: A validation study of a generic automotive vehicle***, B. Neuhierl, S. Senthoran, R. Toppinga, A. Jäger, M. Brink, T. Lemke, P. Moron, R. Mutnuri, SAE Noise & Vibration Conference, Grand Rapids, MI, USA, June 22-25
- 2015.14 ***Assessment of vehicle sunroof buffeting and broadband noise***, N. Oettle, M. Meskine, S. Senthoran, A. Bissell, F. Pérot, JSAE, Yokohama, Japan, May 20-22
- 2015.15 ***Aeroacoustics optimization of the HVAC system of a SUV using LBM***, R. Tupake, V. Bijwe, R.J. Vaidya, A. Aissaoui, M. Meskine, F. Pérot, A. Belanger, JSAE, Yokohama, Japan, May 20-22
- 2015.16 ***Aerodynamic noise prediction of a fan coil cassette unit using LBM*** M. Meskine, M. Kim, F. Perot, F. Polidoro, Y. Portier, F. Fournier, PJ Vaille, Internoise 2015
- 2015.17 ***Acoustic source detection for climate systems via computational fluid dynamics for improved cabin comfort***, J. Biermann, B. Neuhierl, A. Mann, M. S. Kim, 3rd International ATZ Conference, Zurich, Switzerland, June 23-24
- 2015.18 ***Designing quieter HVAC systems coupling LBM and flow-induced noise source identification methods***, A. Mann, M.S. Kim, F. Pérot, M. Meskine, 10th FKFS-Conference, Progress in Vehicle Aerodynamics and Thermal Management, Stuttgart, Germany, September 29-30
- 2015.19 ***Computational prediction of interior noise for design variations on a simplified vehicle***, S. Senthoran, R. Powell, E.S. Choi, S. Cyr, Internoise 2015, San Francisco, CA, USA, August 9-12.
- 2015.20 ***Design of quieter landing gears through Lattice-Boltzmann simulation***, T. Rougier, Q. Bouvy, D. Casalino, J. Applebaun, C. Kleinclaus, 21st AIAA/CEAS Aeroacoustics Conference, USA
- 2015.21 ***Evaluation of Airframe Noise reduction Concepts via Simulations Using a Lattice Boltzmann Approach***, E. Fares, D. Casalino, M. Khorrami, AIAA/CEAS Aeroacoustics Conference, USA

- 2015.22 ***Computational Aeroacoustics Analysis for Noise Minimization on the G550 Nose Landing Gear***, A. A. De Paula, J. R. Meneghini, R. L. Queiroz, 21st AIAA/CEAS Aeroacoustics Conference, Dallas. TX, USA, June 22-26.
- 2015.23 ***Assessment of Jet-Plate Interaction Noise Using the Lattice Boltzmann Method***, F. D. Silva, C. J. Deschamps, A. R. Silva, L. G. C. Simões, 21st AIAA/CEAS Aeroacoustics Conference, Dallas. TX, USA, June 22-26.
- 2015.24 ***Assessment of Slat Noise Predictions for 30P30N High-Lift Configuration from BANC-III Workshop***, M. Choudhari, D. P. Lockard, 21st AIAA/CEAS Aeroacoustics Conference, Dallas. TX, USA, June 22-26.
- 2015.25 ***Summary of the LAGOON Solutions from the Benchmark problems for Airframe Noise Computations-III Workshop***, E. Manoha, B. Caruelle, 21st AIAA/CEAS Aeroacoustics Conference, Dallas. TX, USA, June 22-26.
- 2015.26 ***Comparative Study of Simulated and Measured Gear-Flap Flow Interaction***, M. R. Khorrami, R. E. Mineck, C. L. N. Yao, A. Jenkins, 21st AIAA/CEAS Aeroacoustics Conference, Dallas. TX, USA, June 22-26.
- 2015.27 ***Comparison of Computational and Experimental Microphone Array Results for an 18%-Scale Aircraft Model***, D. P. Lockard, W. M. Humphreys, M. R. Khorrami, E. Fares, D. Casalino, P. A. Ravetta, 21st AIAA/CEAS Aeroacoustics Conference, Dallas. TX, USA, June 22-26.
- 2015.28 ***On the Connection between Flap Side-Edge Noise and Tip Vortex Dynamics***, D. Casalino, A. Hazir, E. Fares, B. Duda, M. R. Khorrami, 21st AIAA/CEAS Aeroacoustics Conference, Dallas. TX, USA, June 22-26.
- 2015.29 ***Computation of dual-stream unsteady jet flows and noise***, D. Casalino, A. Hazir, The 22nd International congress on Sound and Vibration, Florence, July 12-16 2015.
- 2015.30 ***Effect of an excrescence in the slat cove: Flow-field, acoustic radiation and coherent structures***, D. S. Souza, D. Rodríguez, L. G. C. Simões, Aerospace Science and Technology 44, p. 108-115, 2015.
- 2015.31 ***Lattice Boltzmann formulation for flows with Acoustic Porous Media*** C. Sun, F. Perot, R. Zhang, P.T. Lew, A. Mann, V. Gupta, D.M. Freed, I Staroselsky, H Chen

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- 2014.01 ***Computational Process for Wind Noise Evaluation of Rear-View Mirror Design in Cars***, R. Mutnuri, S. Senthoooran, R. Powell, Z. Sugiyama, D. Freed, SAE-2014-01-0619

- 2014.02 ***A Computational Aeroacoustic Study of Windshield Wiper Influence on Passenger Vehicle Greenhouse Windnoise***, B. Neuhierl, D. Schroeck, S. Senthoooran, P. Moron, SAE 2014-01-2051
- 2014.03 ***Investigation of Thermo-Acoustic Excitations in a Rijke Tube Geometry***, D. Mukutmoni, R. Powell, R. Mutnuri, SAE 2014-01-1981
- 2014.04 ***Aerodynamic and Aeroacoustics Predictions of Wells Turbines Using LBM***, M. Meskine, F. Pérot, M.S. Kim, A. Mann, R. Starzmann, T. Carolus, 20th AIAA/CEAS Aeroacoustics Conference, AIAA 2014-2972
- 2014.05 ***Direct aeroacoustics simulation of automotive engine cooling fan system: effect of upstream geometry on broadband noise***, M. Piellard, B. Coutty, V. Le Goff, V. Vidal, F. Pérot, 20th AIAA/CEAS Aeroacoustics Conference, AIAA 2014-2455
- 2014.06 ***Numerical Optimization of Fan Tonal Noise Control using Acoustic Modulation of Slowly-Rotating Obstructions***, S. Magne, M. Sanjose, S. Moreau, A. Berry, 20th AIAA/CEAS Aeroacoustics Conference, AIAA 2014-2948
- 2014.07 ***Direct numerical simulation of acoustic reduction using serrated trailing-edge on an isolated airfoil***, M. Sanjose, C. Meon, S. Moreau, A. Idier, P. Laffay, 20th AIAA/CEAS Aeroacoustics Conference, AIAA 2014-2324
- 2014.08 ***An Extended Lattice Boltzmann Methodology for High Subsonic Jet Noise Prediction***, P.T. Lew, P. Gopalakrishnan, D. Casalino, R. Shock, Y. Li, R. Zhang, H. Chen, K. Habibi, L. Mongeau, 20th AIAA/CEAS Aeroacoustics Conference, AIAA 2014-2755
- 2014.09 ***Towards Lattice-Boltzmann Prediction of Turbofan Engine Noise***, D. Casalino, A. Ribeiro, E. Fares, S. Noelting, A. Mann, F. Pérot, Y. Li, P.T. Lew, C. Sun, P. Gopalakrishnan, R. Zhang, H. Chen, K. Habibi, 20th AIAA/CEAS Aeroacoustics Conference, AIAA 2014-3101
- 2014.10 ***Towards Full Aircraft Airframe Noise Prediction: Lattice Boltzmann Simulations***, M. Khorrami, E. Fares, D. Casalino, 20th AIAA/CEAS Aeroacoustics Conference, AIAA 2014-2481
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- 2014.12 ***Facing rim cavities fluctuation modes***, D. Casalino, A. Ribeiro, E. Fares, Journal of Sound and Vibration 333 (2014) 2812–2830
- 2014.13 ***Digital solutions for assessing and improving wind noise passenger comfort***, F. Pérot, Automotive NVH, Wychwood Park, Crewe, June 30-July

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- 2014.14 ***Experimental and numerical investigation of tip clearance noise of an axial fan using LBM***, T. Zhu, M. Sturm, T. Carolus, B. Neuhierl, F. Pérot, 21st International Congress on Sound and Vibration
- 2014.15 ***Flow-induced noise predictions of an automotive alternator using LBM***, V. Le Goff, V. Vidal, M. Fakes, P. Chiozzi, E. Le Goff, F. Pérot, M.S. Kim, TurboExpo, GT-2014-26386
- 2014.16 ***Numerical prediction and optimization of the tonal noise radiated by an automotive alternator using LBM***, V. Le Goff, V. Vidal, F. Pérot, M. Fakes, E. Le Goff, P. Chiozzi, SIA Automotive NVH Comfort
- 2014.17 ***Modeling fan noise with time-domain CFD within the product design cycle***, K. Washburn, J. Wu, K. Horrigan, F. Pérot, S. Sass, NOISE-CON14
- 2014.18 ***Total Noise Analysis for Containerized Power Generator***, J. Ndione, R. Powell, K. Horrigan, P. Weaver, F. Calvillo, NOISE-CON14
- 2014.19 ***Flow induced noise simulation of exhaust systems (Original title: Stromungsakustische Simulation von Abgasanlagen)***, T. Rose, J. Kruger, B. Neuhierl, Symposium für Motor und Aggregateakustik
- 2014.20 ***Lattice-Boltzmann Aeroacoustic Analysis of the LAGOON Landing-Gear Configuration***, D. Casalino, A. Ribeiro, E. Fares, S. Noelting, AIAA Journal, Vol. 52, No. 6
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- 2013.02 ***Direct Transmission Loss Calculation of various simple chamber mufflers using LBM***, A. Mann, F. Pérot, IMECE2013-63941
- 2013.03 ***Numerical optimization of the tonal noise of a backward centrifugal fan using a flow obstruction***, F. Pérot, M.S. Kim, V. Le Goff, X. Carniel, Y. Goth, C. Chassaignon, Noise Control Engr. J. 61 (3) May-June 2013
- 2013.04 ***HVAC noise predictions using LBM***, F. Pérot, M. Meskine, V. Le Goff, V. Vidal, F. Gille, S. Vergne, F. Dupuy, AIAA-2013-2228
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- 2013.08 ***Community noise prediction of digital high speed train using LBM***, M. Meskine, F. Pérot, M.S. Kim, S. Senthoooran, D. Freed, Z. Sugiyama, S. Gautier, AIAA-2013-2015
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- 2013.10 ***The Ultra-High Efficiency Quiet (UHEQ) fans consortium***, J. Foss, S. Morris, S. Moreau, W. Rockwood, AMCA conference
- 2013.11 ***Fan noise aeroacoustics predictions and effect of design changes on performances using LBM***, F. Pérot, M.S. Kim, S. Moreau, M. Henner, 2013 CFD Canada
- 2013.12 ***Numerical Analysis of Axial Fans for Performance and Noise Evaluation using LBM***, D. Lallier-Daniel, S. Moreau, M. Sanjosé, F. Pérot, 2013 CFD Canada
- 2013.13 ***HVAC Blower Aeroacoustic Predictions***, K. Norisada, M. Sakai, S. Ishiguro, M. Kawaguchi, F. Pérot, K. Wada, SAE 2013-01-1001.
- 2013.14 ***A Computational Process for Early Stage Assessment of Automotive Buffeting and Wind Noise***, G. Balasubramanian, R. Mutnuri, Z. Sugiyama, S. Senthoooran, D., SAE 2013-01-1929.
- 2013.15 ***Simulation of Underbody Contribution of Wind Noise in a Passenger Automobile***, R. Powell, P. Moron, G. Balasubramanian, B. Neuhierl, S. Senthoooran, B. Crouse, D. Freed, C. Kain, F. Ullrich, SAE 2013-01-1932.
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- 2013.17 ***Impedance Boundary Condition for Lattice Boltzmann Model***, C. Sun, F. Pérot, R. Zhang, D. Freed, H. Chen, Commun. Comput. Phys. Vol.13, No 3, pp. 757-768
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- 2012.03 ***Investigation of inflow condition effects on the ANCF aeroacoustics radiation using LBM***, F. Pérot, A. Mann, M-S. Kim, D. Casalino, E. Fares, Inter Noise 2012, Paper 666
- 2012.04 ***NREL wind turbine aerodynamic validation and noise predictions using LBM***, F. Pérot, M.S. Kim, M. Meskine, D. Freed, AIAA 2012-2290
- 2012.05 ***Advanced Noise Control Fan Direct Aeroacoustics Predictions using a Lattice-Boltzmann Method***, A. Mann, F. Pérot, M.S. Kim, D. Casalino, E. Fares, AIAA 2012-2287
- 2012.06 ***Towards numerical aircraft noise certification: analysis of a full-scale landing gear in fly-over configuration***, D. Casalino, S. Noelting, E. Fares, T. Van de Ven, F. Pérot, G Brès, AIAA 2012-2235
- 2012.07 ***Numerical optimization of the tonal noise of a backward centrifugal fan using a flow obstruction***, F. Pérot, M-S. Kim, V. Le Goff, X. Carniel, Y. Goth, C. Chassaignon, Fan2012, Session A-1
- 2012.08 ***Impacting turbulent jet: hydrogen storage safety problems associated with fuel-cells***, F. Anselmet, M. Amielh, M-L. Ducasse, J. Dubois, F. Pérot, VIème Congrès International sur les Energies Renouvelables et l'Environnement.
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- 2012.10 ***Flow and noise predictions for the tandem cylinder aeroacoustic benchmark***, G. Brès, D. Freed, M. Wessels, S. Noelting, F. Pérot, AIP Physics of Fluids 24 2012.
- 2012.11 ***Reducing a Sports Activity Vehicle's Aeroacoustic Noise using a Validated CAA Process***, G. Muller, J. Jany, B. Neuhierl, SAE-2012-01-1552

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- 2011.03 ***Direct Aeroacoustic Simulation of Flow Impingement Noise in an Exhaust Opening***, R. Powell, D. Hendriana, B. Gutzeit, K. Golsch, G. Fadler, SAE 2011-01-1517.
- 2011.04 ***A Computational Approach to Evaluate the Vehicle Interior Noise from Greenhouse Wind Noise Sources – Part II***, A. Graf, D. Lepley, S. Senthoran, SAE 2011-01-1620.
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- 2011.08 ***HVAC blower aeroacoustics predictions based on the lattice boltzmann method***, F. Pérot, F., K. Wada, K. Norisada, M. Kitada, S. Hirayama, M. Sakai, S. Imahigasi, N. Sasaki, AJK2011-23018, AJK 2011 Conference, Hamamatsu, Japan, July 2010
- 2011.09 ***Direct simulation of trailing-edge noise generated by a Controlled Diffusion airfoil using a Lattice-Boltzmann Method***, M. Sanjosé, S. Moreau, F. Pérot, 7th TSFP Conference, July 2011
- 2011.10 ***Etude d'un jet turbulent impactant sur une sphere***, M-L. Ducasse, F. Pérot, M. Amielh, F. Anselmet, CFM, August 2011
- 2011.11 ***Flow and Noise Predictions for Tandem Cylinders in a Realistic Wind-Tunnel Configuration***, Brès, G., 17th AIAA/CEAS Aeroacoustics Conf., AIAA 2011-2824, Portland, OR
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- 2011.13 ***Experimental and Numerical Investigation of Automotive Wind Throb Phenomenon***, K. Iida, Y. Hashizume, H. Narita, L. Wu, G. Balasubramanian, B. Crouse, AJK2011-23004
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