

High Lift Workshop Publication List

July 2012

Trap Wing related

1. Nash, S. M., and Rogers, S. E., "Numerical Study of a Trapezoidal Wing High-Lift Configuration," SAE-1999-01-5559, October 1999.
2. Mavriplis D. and Pirzadeh, S. "Large-Scale Parallel Unstructured Mesh Computations for 3D High-Lift Analysis," AIAA Journal of Aircraft, Vol. 36, No. 6, November-December 1999.
3. Johnson, P. L., Jones, K. M., and Madson, M. D., "Experimental Investigation of a Simplified 3D High Lift Configuration in Support of CFD Validation," AIAA-2000-4217, August 2000.
4. Rogers, Stuart E., Roth, Karlin, and Nash, Steven M., "Validation of Computed High-Lift Flows with Significant Wind-Tunnel Effects," AIAA Journal, Vol. 39, No. 10, 2001.
5. Khorrami, Mehdi R., Berkman, Mert E., Li, Fei, and Singer, Bart A., "Computational Simulations of a Three-Dimensional High-Lift Wing," AIAA paper 2002-2804, June 2002.
6. Neuhart, Dan H., and McGinley, Catherine B., "Free-Stream Turbulence Intensity in the Langley 14- by 22-Foot Subsonic Tunnel," NASA TP-2004-213247, August 2004
7. Chaffin, M. S., and Pirzadeh, S. "Unstructured Navier-Stokes High-Lift Computations on a Trapezoidal Wing," AIAA-2005-5084, June 2005.
8. McGinley, Catherine B., Jenkins, Luther N., Watson, Ralph D., and Bertelrud, Arild, "3-D High-Lift Flow Physics Experiment - Transition Measurements," AIAA paper 2005-5148, June 2005.
9. Streett, Craig L., Casper, Jay H., Lockard, David P., Khorrami, Mehdi R., Stoker, Robert W., Elkoby, Ronen, Wenneman, Wayne F., Underbrink, and James R., "Aerodynamic Noise Reduction for High-Lift Devices on a Swept Wing Model," AIAA paper 2006-212, January 2006.
10. Murayama, M., Imamura, T., Yamamoto, K., and Kobayashi, K., "Comparison of RANS Simulations of Multi-Element High-Lift Configurations," AIAA paper 2006-1396, January 2006.
11. Satti, Rajani, Li, Yanbing, Shock, Richard, and Noelting, Swen, "Unsteady Flow Simulation of a High Lift Trapezoidal Wing Using a Lattice Boltzmann Method," AIAA paper 2008-4145, June 2008.
12. Satti, Rajani, Li, Yanbing, Shock, Richard, and Noelting, Swen, "Aeroacoustics Analysis of a High-Lift Trapezoidal Wing Using a Lattice Boltzmann Method," AIAA paper 2008-3048, May 2008.
13. Kharea, A., Baiga, R., Ranjana, R., Shaha, S., Pavithrana, S., Nikama, K., and Moitra, A., "Computational Simulation of Flow Over a High-Lift Trapezoidal Wing," Indian Institute of Science Centenary International Conference and Exhibition On Aerospace Engineering, Bangalore, India, May 2009.
14. Hannon, J., Washburn, A., Jenkins, L., Watson, R., "Trapezoidal Wing Experimental Repeatability and Velocity Profiles in the 14- by 22- Foot Subsonic Tunnel (invited)," AIAA-2012-706, Jan 2012.

Trap Wing papers resulting from HiLiftPW-1

1. Slotnick, J., Hannon, J., Chaffin, M., "Overview of the 1st AIAA CFD High Lift Prediction Workshop," AIAA-2011-862, Jan 2011.
2. Long, M., Mavriplis, D., "NSU3D Results for the First AIAA High-Lift Prediction Workshop," AIAA-2011-863, Jan 2011.
3. Steed, R., "High Lift CFD Simulations with an SST-Based Predictive Laminar to Turbulent Transition Model," AIAA-2011-864, Jan 2011.
4. Wiart, L., Meunier, M., "Computational Assessment of the HiLiftPW-1 Trap-Wing Model Using the elsA CFD Software," AIAA-2011-865, Jan 2011.
5. Sclafani, T., Slotnick, J., Vassberg, J., Pulliam, T., Lee, H., "OVERFLOW Analysis of the NASA Trap Wing Model from the First High Lift Prediction Workshop," AIAA-2011-866, Jan 2011.
6. Eliasson, P., Peng, S.-H., Hanifi, A., "Improving the Prediction for the NASA High-Lift Trap Wing Model," AIAA-2011-867, Jan 2011.
7. Reyes, D., Girimaji, S., Pandya, M., Abdol-Hamid, K., "Computations of High-Lift Wing-Body configuration on Unstructured Grids using k-w models," AIAA-2011-868, Jan 2011.
8. Fares, E., Noelting, S., "Unsteady Flow Simulation of a High-Lift configuration using a Lattice Boltzmann Approach," AIAA-2011-869, Jan 2011.
9. Park, M., Lee-Rausch, E., Rumsey, C., "FUN3D and CFL3D Computations for the First High Lift Prediction Workshop," AIAA-2011-936, Jan 2011.
10. Murayama, M., Yamamoto, K., Tanaka, K., "CFD Comparison Study for Trapezoidal High-Lift Wing Configurations by Structured and Unstructured Mesh Method," AIAA-2011-937, Jan 2011.
11. Crippa, S., Milber-Wilkending, S., Rudnik, R., "DLR Contribution to the First High Lift Prediction Workshop," AIAA-2011-938, Jan 2011.
12. Rumsey, C., Long, M., Stuever, R., Wayman, T., "Summary of the First AIAA CFD High Lift Prediction Workshop," AIAA-2011-939, Jan 2011.
13. Rumsey, C., Slotnick, J., Long, M., Stuever, R., Wayman, T., "Summary of the First AIAA High-Lift Prediction Workshop," AIAA Journal of Aircraft, Vol. 48, No. 6, 2011, pp. 2068-2079.
14. Antunes, A., Azevedo, A., da Silva, R., "Numerical Simulations of Turbulent Flow over a High-Lift Configuration," AIAA-2011-3006, June 2011.
15. Pandya, M., Abdol-Hamid, K., Parlette, E., "CFD Computations for a Generic High-Lift Configuration Using TetrUSS," AIAA-2011-3008, June 2011.
16. Eliasson, P., Hanifi, A., Peng, S.-H., "Influence of Transition on High-Lift Prediction with the NASA Trap Wing Model," AIAA-2011-3009, June 2011.
17. Lee, H., Pulliam, T., "Effect of Using Near and Off-body Grids with Grid Adaption to Simulate Airplane Geometries," AIAA-2011-3985, June 2011.
18. Rumsey, C., Lee-Rausch, E., "NASA Trapezoidal Wing Computations Including Transition and Advanced Turbulence Modeling," AIAA-2012-2843, June 2012.
19. Murayama, M., Yamamoto, K., Ito, Y., Tanaka, K., "Computational Studies of the NASA High-Lift Trap Wing Using Structured and Unstructured Grid Solvers," AIAA-2012-2844, June 2012.

20. Crippa, S., Krimmelbein, N., "Transitional Flow Computations of the NASA Trapezoidal Wing with the DLR TAU Code," AIAA-2012-2845, June 2012.
21. Antunes, A., da Silva, R., Azevedo, J., "Influence of High-Lift Supporting Systems on the Trapezoidal Wing Aerodynamic Coefficients," AIAA-2012-2846, June 2012.
22. Cavallo, P., Feldman, G., "Quantification of Grid Refinement Effects for NASA High Lift Trap Wing Using Error Transport Model," AIAA-2012-2847, June 2012.
23. Moitra, A., "Investigation of Solution Methodology for Addressing Side of Body Flow Separation," AIAA-2012-2848, June 2012.
24. Krishnamurthy, R., Shende, N., Patel, S., Narayanarao, B., "Unstructured Adaptive Mesh Calculations for NASA Trap Wing Using the Code HiFUN," AIAA-2012-2849, June 2012.
25. Wiart, L., Moens, F., "Numerical Simulation of the NASA High-Lift Trap Wing with the elsA CFD Software," AIAA-2012-2918, June 2012.
26. Sciafani, A., Slotnick, J., Vassberg, J., Pulliam, T., "Extended OVERFLOW Analysis of the NASA Trap Wing Wind Tunnel Model," AIAA-2012-2919, June 2012.
27. Shankara, P., Snyder, D., "Numerical Simulation of High Lift Trap Wing Using STAR-CCM+," AIAA-2012-2920, June 2012.
28. Lopez, O., Escobar, J., Ochoa-Lleras, N., Mahecha, J., Leguizamon, S., Ramirez, S., Jimenez, R., Giraldo, A., Silva, C., "Numerical Simulation of NASA Trap-Wing Model as a Colombian Contribution to the High-Lift Prediction Workshop," AIAA-2012-2921, June 2012.
29. Fares, E., Fabiano, E., Noelting, S., "Unsteady Flow Simulation of High-Lift stall Hysteresis using a Lattice Boltzmann Approach," AIAA-2012-2922, June 2012.
30. Holman, D., Brionnaud, R., De Mier, M., "Advanced Aerodynamic Analysis of the NASA High-Lift Trap Wing with a Moving Flap Configuration," AIAA-2012-2923, June 2012.

EUROLIFT and HiLiftPW-2 Related

1. Rudnik, R., "CFD Assessment for High Lift Flows in the European Project EUROLIFT," AIAA-2003-3794, June 2003.
2. Eliasson, P., "CFD Improvements for High Lift Flows in the European Project EUROLIFT," AIAA-2003-3795, June 2003.
3. Perraud, J., Moens, F., Séraudie, A., "Transition on a High Lift Swept Wing in the European Project Eurolift," AIAA-2003-3796, June 2003.
4. Perraud, J., Moens, F., Séraudie, A., "Transition on a High Lift Swept Wing in the European Project Eurolift," AIAA Journal of Aircraft, Vol. 41, No. 5, 2004, pp. 1183-1190.
5. Hansen, H., Thiede, P., Moens, F., Rudnik, R., Quest, J., "Overview About the European High Lift Research Programme EUROLIFT," AIAA-2004-767, Jan 2004.
6. Neitzke, K.-P., Rudnik, R., Schroeder, A., "Low Speed Validation Tests on Engine/Airframe Integration Within the EC Project EUROLIFT II," AIAA-2005-3704, July 2005.
7. Rudnik, R., Germain, E., "Re-No. Scaling Effects on the EUROLIFT High Lift Configurations," AIAA-2007-752, Jan 2007.

8. Rudnik, R., Geyr, H., "The European High Lift Project EUROLIFT II – Objectives, Approach, and Structure," AIAA-2007-4296, June 2007.
9. van der Burg, J., von Geyr, H.-F., Heinrich, R., Eliasson, P., Delille, T., Krier, J., "Geometrical Model Installation and Deformation Effects in the European Project EUROLIFT II," AIAA-2007-4297, June 2007.
10. Quix, H., Schulz, M., Quest, J., Rudnik, R., Schroeder, A., "Low Speed High Lift Validation Tests Within the European Project EUROLIFT II," AIAA-2007-4298, June 2007.
11. von Geyr, H.-F., Schade, N., van der Burg, J., Eliasson, P., Esquieu, S., "CFD Prediction of Maximum Lift Effects on Realistic High-Lift-Commercial-Aircraft-Configurations within the European project EUROLIFT II," AIAA-2007-4299, June 2007.
12. Wild, J., Brezillon, J., Amoignon, O., Quest, J., Moens, F., Quagliarella, D., "Advanced High-Lift Design by Numerical Methods and Wind Tunnel Verification within the European Project EUROLIFT II," AIAA-2007-4300, June 2007.
13. Moens, F., Perraud, J., Krumbein, A., Toulorge, T., Ianneli, P., Eliasson, P., Hanifi, A., "Transition Prediction and Impact on 3D High-Lift Wing Configuration," AIAA-2007-4302, June 2007.
14. Eliasson, P., Catalano, P., Le Pape, M.-C., Ortmann, J., Pelizzari, E., Ponsin, J., "Improved CFD Predictions for High Lift Flows in the European Project EUROLIFT II," AIAA-2007-4303, June 2007.
15. Rudnik, R., Huber, K., Melber-Wilkending, S., "EUROLIFT Test Case Description for the 2nd High Lift Prediction Workshop," AIAA-2012-2924, June 2012.