



Antony Jameson

Professor (Research) of Aeronautics and Astronautics, Emeritus

Bio

BIO

Professor Jameson's research focuses on the numerical solution of partial differential equations with applications to subsonic, transonic, and supersonic flow past complex configurations, as well as aerodynamic shape optimization.

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Aeronautics and Astronautics
- Member, Institute for Computational and Mathematical Engineering (ICME)

HONORS AND AWARDS

- Daniel Guggenheim Medal, AIAA/ASME/SAE/AHS (2015)
- John von Neumann Medal, USACM (2015)
- Pendray Aerospace Literature Award, AIAA (2015)
- Symposium in Honor of Antony Jameson's 80th Birthday, Stanford ICME/Boeing (2014)
- Symposium Celebrating the Careers of Antony Jameson, AFOSR (2013)
- Honorary Member, International Association for Computational Mechanics (2011)
- Old Wykehamist Fellow, Winchester College (2011)
- Sir James Lighthill Distinguished Lectureship Award, Florida State University (2010)
- International Symposium on the occasion of the 75th Birthday of Antony Jameson, Princeton University (2009)
- R.T. Davis Memorial Lecture Award, University of Cincinnati (2008)
- Elmer A. Sperry Award for Advancing the Art of Transportation, ASME/IEEE/SAE/SNAME/AIAA/ASCE (2006)
- F.W. (Casey) Baldwin Award, Canadian Aeronautics and Space Institute (2006)
- Computational Fluid Mechanics Award, USACM (2005)
- Fellow, The Royal Academy of Engineering (2005)
- Fellow, The Royal Aeronautical Society (2004)
- Workshop in Honor of Professor Antony Jameson's 70th Birthday, Pacing CFD: Technology Drivers and Barriers to Progress (2004)
- Docteur Honoris Causa, Uppsala University (2002)
- Docteur Honoris Causa, Université Pierre et Marie Curie, Paris VI (2001)
- Elected Foreign Associate, National Academy of Engineering (1997)
- Theodorsen Lectureship Award, ICASE (1997)

- Fellow, Royal Society of London (1995)
- Spirit of St. Louis Medal, ASME (1995)
- Fluid Dynamics Award, American Institute of Aeronautics and Astronautics (1993)
- W.R. Sears Distinguished Lecturer, Cornell University (1992)
- Honorary Fellow of Trinity Hall, Cambridge (1990)
- Gold Medal, Royal Aeronautical Society (1988)
- Honorary Professor, Northwestern Polytechnical University, Xian, China (1986)
- Medal for Exceptional Scientific Achievement, NASA (1980)
- Alfred P. Sloan Foreign Post-Doctoral Fellow, Massachusetts Institute of Technology (1962)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Lifetime Member, Society for Industrial and Applied Mathematics (2013 - present)
- International Executive Committee, International Association of Computational Mathematics (2002 - 2011)
- Fellow, Royal Aeronautical Society (2004 - present)
- Fellow, Royal Academy of Engineering (2005 - present)
- Fellow, Royal Society of London (1995 - present)
- Fellow, AIAA (1991 - present)
- Foreign Associate, National Academy of Engineering (1997 - present)

PROFESSIONAL EDUCATION

- PhD, Cambridge (1963)

LINKS

- <http://aero-comlab.stanford.edu/jameson/index.html>: <http://aero-comlab.stanford.edu/jameson/index.html>

Publications

PUBLICATIONS

- **On consistency and rate of convergence of Flux Reconstruction for time-dependent problems** *JOURNAL OF COMPUTATIONAL PHYSICS*
Asthana, K., Watkins, J., Jameson, A.
2017; 334: 367-391
- **A numerical analysis of the nodal Discontinuous Galerkin scheme via Flux Reconstruction for the advection-diffusion equation** *COMPUTERS & FLUIDS*
Watkins, J., Asthana, K., Jameson, A.
2016; 139: 233-247
- **A study on the numerical dissipation of the Spectral Difference method for freely decaying and wall-bounded turbulence** *COMPUTERS & FLUIDS*
Chapelier, J., Lodato, G., Jameson, A.
2016; 139: 261-280
- **On the Stability of the Flux Reconstruction Schemes on Quadrilateral Elements for the Linear Advection Equation** *JOURNAL OF SCIENTIFIC COMPUTING*
Sheshadri, A., Jameson, A.
2016; 67 (2): 769-790
- **A Simplified Formulation of the Flux Reconstruction Method** *JOURNAL OF SCIENTIFIC COMPUTING*
Romero, J., Asthana, K., Jameson, A.

2016; 67 (1): 351-374

- **Explicit filtering and exact reconstruction of the sub-filter stresses in large eddy simulation** *JOURNAL OF COMPUTATIONAL PHYSICS*
Bull, J. R., Jameson, A.
2016; 306: 117-136
- **ON THE RATE OF CONVERGENCE OF FLUX RECONSTRUCTION FOR STEADY-STATE PROBLEMS** *SIAM JOURNAL ON NUMERICAL ANALYSIS*
Asthana, K., Watkins, J., Jameson, A.
2016; 54 (5): 2910-2937
- **Non-linear stabilization of high-order Flux Reconstruction schemes via Fourier-spectral filtering** *JOURNAL OF COMPUTATIONAL PHYSICS*
Asthana, K., Lopez-Morales, M. R., Jameson, A.
2015; 303: 269-294
- **An extended range of stable-symmetric-conservative Flux Reconstruction correction functions** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
Vincent, P. E., FARRINGTON, A. M., Witherden, F. D., Jameson, A.
2015; 296: 248-272
- **Simulation of the Taylor-Green Vortex Using High-Order Flux Reconstruction Schemes** *AIAA JOURNAL*
Bull, J. R., Jameson, A.
2015; 53 (9): 2750-2761
- **High-Order Flux Reconstruction Schemes with Minimal Dispersion and Dissipation** *JOURNAL OF SCIENTIFIC COMPUTING*
Asthana, K., Jameson, A.
2015; 62 (3): 913-944
- **Symmetric quadrature rules for simplexes based on sphere close packed lattice arrangements** *JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS*
Williams, D. M., Shunn, L., Jameson, A.
2014; 266: 18-38
- **A note on the numerical dissipation from high-order discontinuous finite element schemes** *COMPUTERS & FLUIDS*
Jameson, A., Lodato, G.
2014; 98: 186-195
- **Computation of flows with shocks using the Spectral Difference method with artificial viscosity, II: Modified formulation with local mesh refinement** *COMPUTERS & FLUIDS*
Premasathan, S., Liang, C., Jameson, A.
2014; 98: 122-133
- **Computation of flows with shocks using the Spectral Difference method with artificial viscosity, I: Basic formulation and application** *COMPUTERS & FLUIDS*
Premasathan, S., Liang, C., Jameson, A.
2014; 98: 111-121
- **Energy Stable Flux Reconstruction Schemes for Advection-Diffusion Problems on Tetrahedra** *JOURNAL OF SCIENTIFIC COMPUTING*
Williams, D. M., Jameson, A.
2014; 59 (3): 721-759
- **Structural Wall-modeled LES Using a High-order Spectral Difference Scheme for Unstructured Meshes** *FLOW TURBULENCE AND COMBUSTION*
Lodato, G., Castonguay, P., Jameson, A.
2014; 92 (1-2): 579-606
- **Energy stable flux reconstruction schemes for advection-diffusion problems** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
Castonguay, P., Williams, D. M., Vincent, P. E., Jameson, A.
2013; 267: 400-417

- **Energy stable flux reconstruction schemes for advection-diffusion problems on triangles** *JOURNAL OF COMPUTATIONAL PHYSICS*
Williams, D. M., Castonguay, P., Vincent, P. E., Jameson, A.
2013; 250: 53-76
- **Discrete filter operators for large-eddy simulation using high-order spectral difference methods** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS*
Lodato, G., Castonguay, P., Jameson, A.
2013; 72 (2): 231-258
- **Computational Aerodynamics: Solvers and Shape Optimization** *JOURNAL OF HEAT TRANSFER-TRANSACTIONS OF THE ASME*
Martinelli, L., Jameson, A.
2013; 135 (1)
- **Structural wall-modeled LES using a high-order spectral difference scheme for unstructured meshes** *Flow Turbulence Combustion*
Jameson, A., Lodato, G., Castonguay, P.
2013
- **Nodal Points and the Nonlinear Stability of High-Order Methods for Unsteady Flow Problems on Tetrahedral Meshes**
Jameson, A., Williams, D.
2013
- **Design of free-surface interfaces using RANS equations**
Jameson, A., Palacios, F., Alonso, J., J.
2013
- **Combined Feature-Driven Richardson-Based Adaptive Mesh Refinement for Unsteady Vortical Flows** *49th AIAA Aerospace Sciences Meeting / New Horizons Forum and Aerospace Exposition*
Kamkar, S. J., Wissink, A. M., Sankaran, V., Jameson, A.
AMER INST AERONAUT ASTRONAUT.2012: 2834-47
- **Further Studies of Airfoils Supporting Non-Unique Solutions in Transonic Flow** *29th AIAA Applied Aerodynamics Conference*
Jameson, A., Vassberg, J. C., Ou, K.
AMER INST AERONAUT ASTRONAUT.2012: 2865-81
- **An upwinded state approximate Riemann solver** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS*
Srinivasan, B., Jameson, A., Krishnamoorthy, S.
2012; 70 (5): 578-602
- **Adjoint-Based Aerodynamic Optimization of Supersonic Biplane Airfoils** *49th AIAA Aerospace Sciences Meeting / New Horizons Forum and Aerospace Exposition*
Hu, R., Jameson, A., Wang, Q.
AMER INST AERONAUTICS ASTRONAUTICS.2012: 802-14
- **A New Class of High-Order Energy Stable Flux Reconstruction Schemes for Triangular Elements** *JOURNAL OF SCIENTIFIC COMPUTING*
Castonguay, P., Vincent, P. E., Jameson, A.
2012; 51 (1): 224-256
- **One-shot pseudo-time method for aerodynamic shape optimization using the Navier-Stokes equations** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS*
Hazra, S. B., Jameson, A.
2012; 68 (5): 564-581
- **On the Non-linear Stability of Flux Reconstruction Schemes** *JOURNAL OF SCIENTIFIC COMPUTING*
Jameson, A., Vincent, P. E., Castonguay, P.
2012; 50 (2): 434-445
- **A CONSERVATIVE MESH-FREE SCHEME AND GENERALIZED FRAMEWORK FOR CONSERVATION LAWS** *SIAM JOURNAL ON SCIENTIFIC COMPUTING*
Chiu, E. K., Wang, Q., Hu, R., Jameson, A.
2012; 34 (6): A2896-A2916

- **LES modeling with high-order flux reconstruction and spectral difference schemes**
Jameson, A., Lodato, G.
2012
- **Convergence Acceleration of High Order Numerical Simulations using a Hybrid Spectral Difference / Finite Volume Multigrid Method**
Jameson, A., Allaneau, Y., Li, L., Y.
2012
- **Shape Sensitivity of Free-Surface Interfaces Using a Level Set Methodology**
Jameson, A., Palacios, F., Alonso, J.
2012
- **Toward structural LES modeling with high-order spectral difference schemes**
Jameson, A., Lodato, G., Castonguay, P.
2012
- **A p-multigrid spectral difference method for two-dimensional unsteady incompressible Navier-Stokes equations** *COMPUTERS & FLUIDS*
Liang, C., Chan, A. S., Jameson, A.
2011; 51 (1): 127-135
- **Insights from von Neumann analysis of high-order flux reconstruction schemes** *JOURNAL OF COMPUTATIONAL PHYSICS*
Vincent, P. E., Castonguay, P., Jameson, A.
2011; 230 (22): 8134-8154
- **Feature-driven Cartesian adaptive mesh refinement for vortex-dominated flows** *JOURNAL OF COMPUTATIONAL PHYSICS*
Kamkar, S. J., Wissink, A. M., Sankaran, V., Jameson, A.
2011; 230 (16): 6271-6298
- **50 years of transonic aircraft design** *PROGRESS IN AEROSPACE SCIENCES*
Jameson, A., Ou, K.
2011; 47 (5): 308-318
- **Vortex suppression and drag reduction in the wake of counter-rotating cylinders** *JOURNAL OF FLUID MECHANICS*
Chan, A. S., Dewey, P. A., Jameson, A., Liang, C., Smits, A. J.
2011; 679: 343-382
- **A New Class of High-Order Energy Stable Flux Reconstruction Schemes** *JOURNAL OF SCIENTIFIC COMPUTING*
Vincent, P. E., Castonguay, P., Jameson, A.
2011; 47 (1): 50-72
- **Connections between the filtered discontinuous Galerkin method and the flux reconstruction approach to high order discretizations** *COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING*
Allaneau, Y., Jameson, A.
2011; 200 (49-52): 3628-3636
- **Optimization of Flow Past a Moving Deformable Airfoil Using Spectral Difference Method**
Jameson, A., Ou, K.
2011
- **On the Development of a High-Order, Multi-GPU Enabled, Compressible Viscous Flow Solver for Mixed Grids**
Jameson, A., Castonguay, P., Williams, D., Vincent, P., Lopez, M.
2011
- **A Systematic Study on the Impact of Dimensionality for a Two-Dimensional Aerodynamic Optimization Model Problem**
Jameson, A., Vassberg, J., Harrison, N., Roman, D.
2011
- **Using Feature Detection and Richardson Extrapolation to Guide Adaptive Mesh Refinement for Vortex-Dominated Flows** *6th International Conference on Computational Fluid Dynamics (ICCFD)*
Kamkar, S. J., Jameson, A., Wissink, A. M., Sankaran, V.

SPRINGER-VERLAG BERLIN.2011: 219–224

- **Design of Adjoint-Based Laws for Wing Flutter Control** *JOURNAL OF AIRCRAFT*
Palaniappan, K., Sahu, P., Jameson, A., Alonso, J. J.
2011; 48 (1): 331-335
- **Facilitating the Adoption of Unstructured High-Order Methods Amongst a Wider Community of Fluid Dynamicists** *MATHEMATICAL MODELLING OF NATURAL PHENOMENA*
Vincent, P. E., Jameson, A.
2011; 6 (3): 97-140
- **High-order accurate simulations of unsteady flow past plunging and pitching airfoils** *COMPUTERS & FLUIDS*
Liang, C., Ou, K., Premasathan, S., Jameson, A., Wang, Z. J.
2011; 40 (1): 236-248
- **An Artificial Compressibility Method for the Spectral Difference Solution of Unsteady Incompressible Navier-Stokes Equations on Multiple Grids**
Jameson, A., Liang, C., Chan, A., Liu, X.
2011
- **High-Order Methods for Diffusion Equation with Energy Stable Flux Reconstruction Scheme**
Jameson, A., Ou, K., Vincent, P.
2011
- **Further Studies of Mesh Refinement: Are Shock-Free Airfoils Truly Shock Free?**
Jameson, A., Vassberg, J.
2011
- **An Extension of Energy Stable Flux Reconstruction to Unsteady, Non-linear, Viscous Problems on Mixed Grids**
Jameson, A., Williams, D., Castonguay, P., Vincent, P.
2011
- **Structural LES modeling with high-order spectral difference schemes** *Annual Research Briefs, Center for Turbulence Research, Stanford University*
Jameson, A., Lodato, G., Castonguay, P.
2011
- **Automated Off-Body Cartesian Mesh Adaption for Rotorcraft Simulations**
Jameson, A., Kamkar, S., Wissink, Sankaran, V.
2011
- **Robust Optimal Control Using Polynomial Chaos and Adjoint for Systems with Uncertain Inputs**
Jameson, A., Shankaran, S.
2011
- **Towards Computational Flapping Wing Aerodynamics of Realistic Configurations using Spectral Difference Method**
Jameson, A., Ou, K.
2011
- **Application of High-Order Energy Stable Flux Reconstruction Schemes to the Euler Equations**
Jameson, A., Castonguay, P., Vincent, P.
2011
- **Unsteady Adjoint Method for the Optimal Control of Advection and Burger's Equations Using High-Order Spectral Difference Method**
Jameson, A., Ou, K.
2011
- **Advances in Bringing High-Order Methods to Practical Applications in Computational Fluid Dynamics**
Jameson, A.
2011

- **A Computational Framework for Low Reynolds Number 3D Flapping Wings Simulation**
Jameson, A., Allaneau, Y., Culbreth, M.
2011
- **Efficient Relaxation Methods for High-Order Discretization of Steady Problems** *Adaptive High-Order Methods in Computational Fluid Dynamics*
Jameson, A., May, G.
edited by Wang, Z., J.
World Scientific Publishing Co..2011
- **Optimization of Flow Past a Moving Deformable Airfoil Using Spectral Difference Method**
Jameson, A., Ou, K.
2011
- **On the Development of a High-Order, Multi-GPU Enabled, Compressible Viscous Flow Solver for Mixed Grids**
Jameson, A., Castonguay, P., Williams, D., Vincent, P., Lopez, M.
2011
- **A Systematic Study on the Impact of Dimensionality for a Two-Dimensional Aerodynamic Optimization Model Problem**
Jameson, A., Vassberg, J., Harrison, N., Roman, D.
2011
- **Using Feature Detection and Richardson Extrapolation to Guide Adaptive Mesh Refinement for Vortex-Dominated Flows** *6th International Conference on Computational Fluid Dynamics (ICCFD)*
Kamkar, S. J., Jameson, A., Wissink, A. M., Sankaran, V.
SPRINGER-VERLAG BERLIN.2011: 219–224
- **Design of Adjoint-Based Laws for Wing Flutter Control** *JOURNAL OF AIRCRAFT*
Palaniappan, K., Sahu, P., Jameson, A., Alonso, J. J.
2011; 48 (1): 331-335
- **Facilitating the Adoption of Unstructured High-Order Methods Amongst a Wider Community of Fluid Dynamicists** *MATHEMATICAL MODELLING OF NATURAL PHENOMENA*
Vincent, P. E., Jameson, A.
2011; 6 (3): 97-140
- **High-order accurate simulations of unsteady flow past plunging and pitching airfoils** *COMPUTERS & FLUIDS*
Liang, C., Ou, K., Premasuthan, S., Jameson, A., Wang, Z. J.
2011; 40 (1): 236-248
- **Analysis and shape optimization in incompressible flows with unstructured grids** *COMPUTERS & FLUIDS*
Shankaran, S., Jameson, A., Martinelli, L.
2010; 39 (10): 1774-1788
- **Meshless Scheme Based on Alignment Constraints** *19th AIAA Computational Fluid Dynamics Conference*
Katz, A., Jameson, A.
AMER INST AERONAUTICS ASTRONAUTICS.2010: 2501–11
- **A Proof of the Stability of the Spectral Difference Method for All Orders of Accuracy** *JOURNAL OF SCIENTIFIC COMPUTING*
Jameson, A.
2010; 45 (1-3): 348-358
- **In Pursuit of Grid Convergence for Two-Dimensional Euler Solutions** *JOURNAL OF AIRCRAFT*
Vassberg, J. C., Jameson, A.
2010; 47 (4): 1152-1166
- **Bodies Having Minimum Pressure Drag in Supersonic Flow: Investigating Nonlinear Effects** *JOURNAL OF AIRCRAFT*
Palaniappan, K., Jameson, A.
2010; 47 (4): 1451-1454
- **Enhancement of a Class of Adjoint Design Methods via Optimization of Parameters** *AIAA 43rd Aerospace Sciences Meeting and Exhibit*

Kim, S., Hosseini, K., Leoviriyakit, K., Jameson, A.
AMER INST AERONAUT ASTRONAUT.2010: 1072–76

- **A hybrid multilevel method for high-order discretization of the Euler equations on unstructured meshes** *JOURNAL OF COMPUTATIONAL PHYSICS*
May, G., Iacono, F., Jameson, A.
2010; 229 (10): 3938-3956
- **Suppression of the unsteady vortex wakes of a circular cylinder pair by a doublet-like counter-rotation** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS*
Chan, A. S., Jameson, A.
2010; 63 (1): 22-39
- **Aerodynamic-Structural Design Studies of Low-Sweep Transonic Wings** *AIAA 46th Aerospace Sciences Meeting and Exhibit*
Jameson, A., Vassberg, J. C., Shankaran, S.
AMER INST AERONAUT ASTRONAUT.2010: 505–14
- **On nonlinear preconditioners in Newton-Krylov methods for unsteady flows** *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS*
Birken, P., Jameson, A.
2010; 62 (5): 565-573
- **FLOW INDUCED CYLINDER OSCILLATION AND ITS CONTROL WITH HIGH ORDER SPECTRAL DIFFERENCE METHOD ON DEFORMABLE MESH** *7th Int Symposium on Fluid-Structure Interactions, Flow-Sound Interactions, and Flow-Induced Vibration and Noise/Summer Meeting of the Fluids Engineering Division of ASME*
Ou, K., Jameson, A.
AMER SOC MECHANICAL ENGINEERS.2010: 297–307
- **Simulation of Transitional Flow over Airfoils using the Spectral Difference Method**
Jameson, A., Castonguay, P., Liang, C.
2010
- **Comparison of h- and p- Adaptations for Spectral Difference Methods**
Jameson, A., Li, Y., Premasuthan, S.
2010
- **A Meshless Volume Scheme**
Jameson, A.
2010
- **On the Temporal and Spatial Accuracy of Spectral Difference Method on Moving Deformable Grids and the Effect of Geometry Conservation Law**
Jameson, A., Ou, K.
2010
- **A High-Order Spectral Difference Method for Fluid-Structure Interaction on Dynamic Deforming Meshes**
Jameson, A., Ou, K.
2010
- **Computation of Flows with Shocks Using Spectral Difference Scheme with Artificial Viscosity**
Jameson, A., Premasuthan, S., Liang, C.
2010
- **An Edge-Averaged Semi-meshless Framework for Numerical Solution of Conservation Laws**
Jameson, A., Chiu, E., K.-Y.
2010
- **A High-Order Spectral Difference Method for the Navier-Stokes Equations on Unstructured Moving Deformable Grids**
Jameson, A., Ou, K., Liang, C.
2010

- **Direct Numerical Simulations of Plunging Airfoils**
Jameson, A., Allaneau, Y.
2010
- **Enhancement of Class of Adjoint Design Methods Via Optimization of Parameters** *IAA Journal*
Jameson, A., Kim, S., Hosseini, K., Leoviriyahit, K.
2010; 48 (6): 1072-1076
- **Optimization Methods in Computational Fluid Dynamics** *Encyclopedia of Aerospace Engineering*
Jameson, A., Ou, K.
edited by Blockley, R., John, W., Shyy, W.
2010
- **Feature-Driven Cartesian Adaptive Mesh Refinement in the Helios Code**
Jameson, A., Kamkar, S., Wissink, A., Sankaran, V.
2010
- **Multicloud: Multigrid convergence with a meshless operator** *JOURNAL OF COMPUTATIONAL PHYSICS*
Katz, A., Jameson, A.
2009; 228 (14): 5237-5250
- **Spectral difference method for compressible flow on unstructured grids with mixed elements** *JOURNAL OF COMPUTATIONAL PHYSICS*
Liang, C., Jameson, A., Wang, Z. J.
2009; 228 (8): 2847-2858
- **Comparative Study of Three-Dimensional Wing Drag Minimization by Different Optimization Techniques** *AIAA 46th Aerospace Sciences Meeting and Exhibit*
Epstein, B., Jameson, A., Peigin, S., Roman, D., Harrison, N., Vassberg, J.
AMER INST AERONAUTICS ASTRONAUTICS.2009: 526-41
- **High-order accurate simulation of low-Mach laminar flow past two side-by-side cylinders using spectral difference method** *5th MIT Conference on Computational Fluid and Solid Mechanics*
Liang, C., Premasuthan, S., Jameson, A.
PERGAMON-ELSEVIER SCIENCE LTD.2009: 812-27
- **NLF Airfoil and Wing Design by Adjoint Method and Automatic Transition Prediction**
Jameson, A., Lee, J.
2009
- **A Multi-Solver Scheme for Viscous Flows Using Adaptive Cartesian Grids and Meshless Grid Communication**
Jameson, A., Katz, A., Wissink, A.
2009
- **Nonlinear iterative solvers for unsteady Navier-Stokes equations** *12th International Conference on Hyperbolic Problems*
Birken, P., Jameson, A.
AMER MATHEMATICAL SOC.2009: 429-437
- **Efficient Algorithms for High-Order Discretizations of the Euler and Navier-Stokes Equations**
Jameson, A., May, G., Iacono, F.
2009
- **High-Order Spectral Difference Simulation of Laminar Compressible Flow Over Two Counter-Rotating Cylinders**
Jameson, A., Ou, K., Liang, C., Premasuthan, S.
2009
- **Direct Numerical Simulation of a Two-Dimensional Shocktube Using a Kinetic Energy Preserving Scheme**
Jameson, A., Allaneau, Y.
2009
- **Automated Grid Refinement Using Feature Detection for Rotorcraft Simulations**

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- Jameson, A., Kamkar, S., Wissink, A.
2009
- **p-Multigrid Spectral Difference Method For Viscous Compressible Flow Using 2D Quadrilateral Meshes**
Jameson, A., Premasathan, S., Liang, C., Wang, Z.
2009
 - **A Comparison of Various Meshless Schemes Within a Unified Algorithm**
Jameson, A., Katz, A.
2009
 - **Blending Dual Time Stepping and Newton-Krylov Methods for Unsteady Flows**
Jameson, A., Birken, P.
2009
 - **NLF Airfoil and Wing Design by Adjoint Method and Automatic Transition Prediction**
Jameson, A., Lee, J.
2009
 - **A Multi-Solver Scheme for Viscous Flows Using Adaptive Cartesian Grids and Meshless Grid Communication**
Jameson, A., Katz, A., Wissink, A.
2009
 - **Nonlinear iterative solvers for unsteady Navier-Stokes equations** *12th International Conference on Hyperbolic Problems*
Birken, P., Jameson, A.
AMER MATHEMATICAL SOC.2009: 429–437
 - **Intense narrow band terahertz generation via type-II difference-frequency generation in ZnTe using chirped optical pulses** *JOURNAL OF APPLIED PHYSICS*
Danielson, J. R., Jameson, A. D., Tomaino, J. L., Hui, H., Wetzell, J. D., Lee, Y., Vodopyanov, K. L.
2008; 104 (3)
 - **Continuous adjoint method for unstructured grids** *AIAA 45th Aerospace Sciences Meeting and Exhibit*
Jameson, A., Shankaran, S., Martinelli, L.
AMER INST AERONAUTICS ASTRONAUTICS.2008: 1226–39
 - **The construction of discretely conservative finite volume schemes that also globally conserve energy or entropy** *JOURNAL OF SCIENTIFIC COMPUTING*
Jameson, A.
2008; 34 (2): 152-187
 - **Formulation of kinetic energy preserving conservative schemes for gas dynamics and direct numerical simulation of one-dimensional viscous compressible flow in a shock tube using entropy and kinetic energy preserving schemes** *JOURNAL OF SCIENTIFIC COMPUTING*
Jameson, A.
2008; 34 (2): 188-208
 - **Multicloud Convergence Acceleration for Complex Applications on Arbitrary Grids** *Conference on High Performance Computer Modernization Program*
Katz, A., Jameson, A.
IEEE COMPUTER SOC.2008: 479–485
 - **A Pilot Project in Preparation of an Aerodynamic Optimization Workshop with Lessons Learned**
Jameson, A., Vassberg, J., Peigin, S., Epstein, B., Roman, D., Harrison, N.
2008
 - **Edge-based Meshless Methods for Compressible Flow Simulations**
Jameson, A., Katz, A.
2008
 - **Time Spectral Method for Rotorcraft Flow**
Jameson, A., Butsunton, N.

2008

- **Time Spectral Method for Rotorcraft Flow with Vorticity Confinement**
Jameson, A., Butsunton, N.
2008
- **An Unstructured Adjoint Method for Transonic Flow**
Jameson, A., Shankaran, S., Martinelli, L.
2008
- **Optimum shape design for unsteady three-dimensional viscous flows using a nonlinear frequency-domain method** *AIAA 24th Applied Aerodynamics Conference*
Nadarajah, S. K., Jameson, A.
AMER INST AERONAUT ASTRONAUT.2007: 1513–27
- **Spectral difference method for unstructured grids II: Extension to the Euler equations** *JOURNAL OF SCIENTIFIC COMPUTING*
Wang, Z. J., Liu, Y., May, G., Jameson, A.
2007; 32 (1): 45-71
- **Optimum shape design for unsteady flows with time-accurate continuous and discrete adjoint methods** *AIAA/ISSMO 9th Symposium on Multidisciplinary Analysis and Optimization*
Nadarajah, S. K., Jameson, A.
AMER INST AERONAUT ASTRONAUT.2007: 1478–91
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