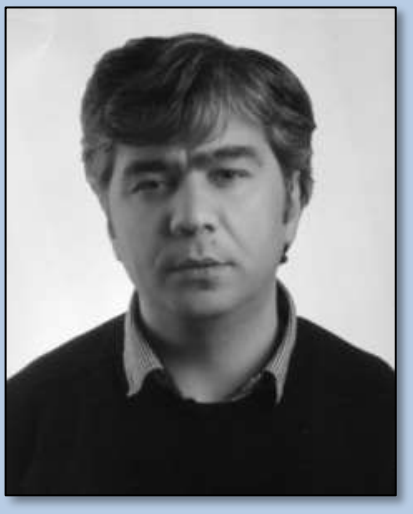

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RESEARCH INTEREST

His research and teaching interest include advanced numerical algorithms, ALE methods, high-performance computing, flow instabilities, non-Newtonian flows, low Reynolds number aerodynamics, multi-phase flows, fluid-structure interactions, dynamic mesh adaptation and animal locomotion.

EDUCATION

April 2001-March 2004	Ph.D.	Mechanical Engineering Swiss Federal Institute of Technology, Lausanne, Switzerland
Jan 1999-July 2000	M.Sc.	Aerospace Engineering Georgia Institute of Technology, Atlanta, USA
April 1996-March 1998	M.Sc.	Mechanical Engineering Yokohama National University, Yokohama, Japan
Sept 1991-July 1995	B.Sc.	Aeronautical Engineering Istanbul Technical University, Istanbul, Turkey
Sept 1993-July 1995	B.Sc.	Physics Engineering Istanbul Technical University, Istanbul, Turkey
Sept 1990-July 1991		English Preparing Istanbul Technical University, Istanbul, Turkey

LANGUAGES

Mother language is **Turkish**.
Foreign languages are **English**, **Japanese** and **French**.

WORK EXPERIENCE

Oct 2011-Present	Assoc. Prof. Istanbul Technical University (ITU), Department of Astronautical Engineering, Istanbul, Turkey.
July 2009-Oct 2011	Assistant Prof. Istanbul Technical University (ITU), Department of Astronautical Engineering, Istanbul, Turkey.
May 2007-Aug 2008	Research Assoc. University of Colorado at Boulder (CU), Department of Aerospace Engineering Sciences, Boulder, CO.

July 2005- Mar 2007	Post-Doctoral Research Assistant, University College London (UCL), Department of Mathematics, London, UK.
Apr 2001- Sept 2004	Graduate Research Assistant, Swiss Federal Institute of Technology (EPFL), Department of Mechanical Engineering-LMF, Lausanne Switzerland.
Jan 1999- July 2000	Graduate Research Assistant, Georgia Institute of Technology (GT), School of Aerospace Engineering-CFD Lab, Atlanta, GA.

HONORS

Sept 1992-July 1995	Being awarded a scholarship from Scientific and Technical Research Council of Turkey.
July 1994-Sept 1994	Being awarded a scholarship from von Karman Institute for Fluid Dynamics for a short summer training program.
Jan 1996-Aug 1999	Being awarded a scholarship from Ministry of Japanese Education Culture and Sport (Monbusho).
2005-2006	Listed among the leading 3000 scientists and engineers in Marquis Who's Who in Science and Engineering (8th Edition).
2005-2006	Listed in Outstanding Scientists of the 21st Century – Inaugural Edition by International Biographical Center, Cambridge, UK.
Sept 2013	Best paper award. A time dependent fully coupled fluid-structure interaction algorithm. 7th Ankara International Aerospace Conference, Ankara, Turkey, 11-13 September 2013, AIAC-2013-026

INVITED TALKS

- A parallel adaptive unstructured finite volume method for linear stability (normal mode) analysis of viscoelastic fluid flows. McGill University, Montreal, Canada, 27 November 2009.
- The challenges for parallel large-scale viscoelastic fluid flow calculations. International Nathigali Summer College, Pakistan, 6 July 2010.
- The numerical simulation of flow patterns created by a free-swimming jellyfish. International Nathigali Summer College, Pakistan, 7 July 2010.
- A parallel adaptive unstructured finite volume method for the linear stability analysis of non-Newtonian fluid flows. Koc University, Istanbul, Turkey, 8 December 2010.
- An unstructured finite volume method for complex fluid flows. Cutting Edge Research and Technology Development in the Field of Thermo-fluid Dynamics, Ozyegin University, Istanbul, Turkey, 28 May 2014.
- Large scale viscous flow solutions over deforming bodies. Ankara 8th International Aerospace Conference, Ankara, Turkey, 10-12 September 2015.
- An arbitrary Lagrangian Eulerian (ALE) approach for moving-boundary problems with large displacements and rotations. 9th International Conference on Computational Fluid Dynamics, Istanbul, Turkey, 11-15 July 2015.

PROJECTS

- A stable unstructured finite volume method with arbitrary Lagrangian-Eulerian formulation for the numerical simulation of insect flight. Supported by Scientific and Technical Research Council of Turkey (TUBITAK-1001), 15/12/2011-15/12/2013 (PI).
- Fully-coupled large-scale numerical simulation of fluid structure interaction problems. Supported by Scientific and Technical Research Council of Turkey (TUBITAK-1001), 01/11/2012-01/11/2014, (PI).
- An arbitrary Lagrangian-Eulerian formulation for the free-flight simulation of an insect flapping flight in a fully coupled form. Supported by Scientific and Technical Research Council of Turkey (TUBITAK-1001), 01/05/2015-01/05/2017, (PI).
- Technical team member of AVT-202 Extension of Fundamental Flow Physics to Practical MAV Aerodynamics (NATO STO Applied Technology Panel).

PAPERS and PRESENTATIONS

- M. Sahin, Developing 3-D holographic particle image velocimetry. von Karman Institute for Fluid Dynamics, Brussel, Belgium, 4 July - 2 September 1994.
- M. Sahin and K. Kamemoto, A high speed panel method for solution of the full potential equation around airfoils. 11th Computational Fluid Dynamic Symposium, Tokyo, Japan, 18-20 December 1997.
- M. Sahin and K. Kamemoto, A fast higher-order integral equation method for solution of the full potential equation around airfoils. BEM13th Boundary Element Symposium, Paris, France, 27-30 May 1998.
- M. Sahin, L. N. Sankar, M. S. Chandrasekhara and C. Tung, Dynamic stall alleviation using a deformable leading edge concept - A numerical study. AIAA 2000-0520, 38th Aerospace Science Meeting & Exhibit, Reno, Nevada, USA, 10-13 January 2000.
- M. Sahin and L. N. Sankar, Stall alleviation using a deformable leading edge concept. IEEE Aerospace Conference, Big Sky, Montana, USA, 18-25 March 2000.
- L. N. Sankar and M. Sahin, Dynamic stall simulations. Semiannual Meeting of the US/French MOA, NASA Ames Research Center, Moffett Field, California, USA, 28 April 2000.
- L. N. Sankar, M. Sahin and N. Gopal, Dynamic stall characteristics of dropped leading edge airfoils. NASA Technical Reports, January 2000.
- M. Sahin and R. G. Owens, A numerical investigation of the effect of elasticity on the stability of inertial viscoelastic flows. XIIIth International Workshop on Numerical Methods for non-Newtonian Flows, Lausanne, Switzerland, 4-7 June 2003.
- M. Sahin and R. G. Owens, A numerical investigation of the wall effects on flow past a confined circular cylinder. ICIAM 2003 5th International Congress on Industrial and Applied Mathematics, Sydney, Austria, 7-11 July 2003.
- M. Sahin and H. J. Wilson, A semi-staggered dilation-free finite volume method for the numerical solution of viscoelastic fluid flows on all-hexahedral elements. 3rd Annual European Rheology Conference (AERC), Crete, Greece, 27-29 April 2006.
- M. Sahin and H. J. Wilson, A parallel adaptive unstructured finite volume method for linear stability (normal mode) analysis of viscoelastic fluid flows. XVth International Workshop on Numerical Methods for non-Newtonian Flows, Rhodes, Greece, 6-10 June 2007.
- M. Sahin and K. Mohseni, Direct numerical simulation of low Reynolds mumber separated flow around an Eppler 387. APS - 60th Annual Meeting of the Division of Fluid Dynamics, Salt Lake City, Utah, USA, 18-20 November 2007.
- M. Sahin, K. Mohseni, and K. Hillewaert, Direct numerical simulation of separated low-Reynolds number flows around an Eppler 387 airfoil. 46th AIAA Aerospace Sciences Meeting and Exhibit, Reno, Nevada, USA, 7-10 January 2008, AIAA-2008-422.
- M. Sahin and K. Mohseni, The numerical simulation of flow patterns generated by the hydromedusa *Aequorea Victoria* using an arbitrary Lagrangian-Eulerian formulation. 38th Fluid Dynamics Conference and Exhibit, Seattle, Washington, USA, 23-26 June 2008, AIAA-2008-3715.
- D. G. Hassell, R. M. Mackley, M. Sahin and H. J. Wilson, Experimental and computational identification of a polymer melt flow instability. The XVth International Congress on Rheology, Monterey, California, USA, 3-8 August 2008.
- T. Reis, M. Sahin and H. J. Wilson, Co-extrusion instabilities modeled with a single fluid. The XVth International Congress on Rheology, Monterey, California, USA, August 3-8, 2008.
- M. Sahin, A stable unstructured finite volume method for parallel large-scale viscoelastic fluid flow calculations. XVIth International Workshop on Numerical Methods for non-Newtonian Flows, Northampton, USA, 13-15 June 2010.
- M. Sahin, A stable unstructured finite volume method with multigrid for parallel large-scale incompressible viscous fluid flow computations. 40th Fluid Dynamics Conference and Exhibit, Chicago, USA, 28 June-1 July 2010, AIAA-2010-5096.
- M. Sahin, Parallel large-scale computation of an Oldroyd-B fluid past a confined circular cylinder in a rectangular channel using an unstructured finite volume method. APS – 63nd Annual Meeting of the Division of Fluid Dynamics, Long Beach, California, USA, 21-23 November 2010.
- M. Sahin, A stable unstructured finite volume method with multigrid for parallel large-scale incompressible viscous fluid flow computations. 49th AIAA Aerospace Science Meeting, Orlando, Florida, USA, 4-7 January 2011, AIAA 2010-5096.

- M. Sahin, Three-dimensional viscoelastic fluid flow instabilities for the Oldroyd-B fluid past a confined circular cylinder in a rectangular channel. 16th International Conference on Finite Elements in Flow Problems, Munich, Germany, 23-25 March 2011 (sponsored by TUBITAK 2224 program).
- B. Erzincanli and M. Sahin, A stable unstructured finite volume method with arbitrary Lagrangian-Eulerian formulation for the numerical simulation of insect flight. 41th Fluid Dynamics Conference and Exhibit, Honolulu, Hawaii, USA, 27-30 June 2011, AIAA-2011-3897.
- M. Sahin, Parallel large-scale calculations of viscoelastic fluid flow instabilities. 6th Ankara International Aerospace Conference, Ankara, Turkey, 14-16 September 2011, AIAC-2011-144.
- T. Reis, M. Sahin and H. Wilson, Linear instabilities in channel flows with constrictions: Two distinct elastic instabilities. The Society of Rheology 83rd Annual Meeting, Cleveland, Ohio, USA, 9-13 October 2011.
- A. Eken and M. Sahin, Large-scale numerical simulation of fluid structure interactions in low Reynolds number flows. APS 64th Annual Meeting Division of Fluid Dynamics, Baltimore, Maryland, USA, 20 November 2011.
- M. Sahin, Parallel large-scale simulation of viscoelastic fluid flow instabilities. 17th Internatinal Workshop on Numerical Methods for non-Newtonian Flows, Blois Castle, France, 25-28 March 2012.
- A. Eken and M. Sahin, The numerical simulation of large-scale fluid-structure interaction problems in a fully coupled form. 10th World Congress on computaional Mechanics (WCCM 2012), Sao Paulo, Brezil, 8-13 july 2012.
- B. Erzincanli and M. Sahin, An arbitrary Langrangian-Eulerian approach for the numerical simulation of *Drosohila* flight. European Congress on Computational Methods in Applied Sciences and Engineeing (ECCOMAS 2012), Vienna, Austria, 10-14 September 2012.
- B. Erzincanli and M. Sahin, Numerical simulation of *Drosophila* flight based on arbitrary Lagrangian Eulerian (ALE) method. 65th Annual Meeting of the APS Division of Fluid Dynamics, San Diego, CA, USA, 18-20 November 2012.
- S. B. Yucel, M. Sahin and M. F. Unal, Thrust enhancement of flapping wing in tandem and biplane configurations by pure plunging motion. 65th Annual Meeting of the APS Division of Fluid Dynamics, San Diego, CA, USA, 18-20 November 2012.
- B. Erzincanli and M. Sahin, The numerical investigation of the Eulerian and Langrangian coherent structures for hovering *Drosophila* flight. 21st Annual Conference of the CFD Society of Canada, - Sherbrooke, Quebec, Canada, 6-9 May 2013.
- A. Eken and M. Sahin, Parallel fully coupled approach for large-scale fluid-structure interaction problems. 3rd South-East European Conference on Computational Mechanics, Kos, Greece, 12-14 June 2013.
- A. Eken and M. Sahin, A monolithic approach for the numerical simulation of fluid structure interactrion problems. 43rd AIAA Fluid Dynamics Conference and Exhibit, San Diego, CA, USA, 24-27 June 2013.
- E. Oner and M. Sahin, Parallel large-scale numerical simulations of purely-elastic instabilities with a template-based mesh refinement algorithm. The European Numerical Mathematics and Advanced Applications (ENUMATH) Conference, Lausanne, Switzerland, 26-30 August 2013.
- K. Ata, S. Karaca and M. Sahin, An integral equation approach for the solution of the Stokes flow with Hermite surfaces. XVIII. Ulusal Mekanik Kongresi, Manisa, Turkey, 26-30 August 2013.
- S. B. Yucel, M. Sahin and M. F. Unal, Thrust generation of plunging airfoils in tandem and biplane configurations. 7th Ankara International Aerospace Conference, Ankara, Turkey, 11-13 September 2013, AIAC-2013-139.
- A. Eken and M. Sahin, A time dependent fully coupled fluid-structure interaction algorithm. 7th Ankara International Aerospace Conference, Ankara, Turkey, 11-13 September 2013, AIAC-2013-026.
- E. Oner and M. Sahin, An adaptive viscoelastic flow solver with template based mesh refinement. The Eighth International Conference on Computational Fluid Dynamics (ICCFD8), Chengdu, Sichuan, China, July 14-18, 2014.
- A. Eken and M. Sahin, A parallel monolithic approach for fluid-structure interaction in a cerebral aneurysm. APS 67th Annual Meeting Division of Fluid Dynamics, San Francisco, CA, USA, 23-25 November 2014.
- O. Odunce, B. Celik and M. Sahin, Heat and mass transfer characteristic of a serpentine channel with a viscoelastic coolant. 8th International Conference on Computational Heat and Mass Transfer, Istanbul, Turkey, 25-28 May 2015.

- A. Eken and M. Sahin, A parallel fully-coupled fluid-structure interaction simulation of a cerebral aneurysm. VI International Conference on Coupled Problems in Science and Engineering, Venice, Italy, 18-20 May 2015.
- B. Erzincanli and M. Sahin, The numerical simulation of the wing kinematics effects on aerodynamic performance in hovering *Drosophila* flight. The European Numerical Mathematics and Advanced Applications (ENUMATH) Conference, Ankara, Turkey, 14-18 September 2015.
- B. Erzincanli, E. Dilek and M. Sahin, The direct numerical simulation of the near wake structure around a hovering *Drosophila* flight. 8th Ankara International Aerospace Conference, Ankara, Turkey, 10-12 September 2015.
- M. Sahin, Large scale viscous flow solutions over deforming bodies. Ankara 8th International Aerospace Conference, Ankara, Turkey, 10-12 September 2015 (Invited).
- M. Sahin, S. Banu Yucel and M.. F. Unal, The direct numerical simulation of the deflected wake phenomenon around a plunging NACA0012 airfoil at low Reynolds numbers. APS 68th Annual Meeting Division of Fluid Dynamics, Boston, MA, USA, 22-24 November 2015.
- E. Dilek, B. Erzincanli and M. Sahin, An integrated simulation of a wing-body combination for *Drosophila* flight. European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2016) Crete Island, GREECE, 5-10 June 2016.
- M. Sahin, An arbitrary Lagrangian Eulerian (ALE) approach for moving-boundary problems with large displacements and rotations. 9th International Conference on Computational Fluid Dynamics, Istanbul, Turkey, 11-15 July 2016 (Invited).
- Y. Yeginer, M. Sahin and A. Altinkaynak, An implicit meshless RBF-based differential quadrature method applied to the lid-driven cavity problem. 9th International Conference on Computational Fluid Dynamics, Istanbul, Turkey, 11-15 July 2016.
- C. Güventürk and M. Sahin, An arbitrary Lagrangian Eulerian (ALE) framework for the numerical simulation of multiphase flow problems. The 7th International Conference on Computational Methods, Berkeley, CA, USA,1-4 August 2016.
- M. Sahin, An ALE framework for complex fluid flow simulations. Workshop on Fluid Mechanics Research, METU Northen Cyprus Campus, 28 October 2016.
- E. Dilek, B. Erzincanli and M. Sahin, A numerical investigation of two-different *Drosophil*a forward flight modes. APS 69th Annual Meeting Division of Fluid Dynamics, Portland, OR, USA, 20-22 November 2016.
- S. Akkurt and M. Sahin. A two-dimensional Delaunay based unstructured mesh generation algorithm. VI. Ulusal Havacılık ve Uzay Konferansı, Kocaeli, Turkey, 28-30 October 2016.
- A. Cetin and M. Sahin, Fluid structure interaction simulation of red blood cells. VI. Ulusal Havacılık ve Uzay Konferansı, Kocaeli, Turkey, 28-30 October 2016.

JOURNALS

- M. Sahin and K. Kamemoto, A fast higher-order integral equation method for solution of the full potential equation around airfoils. ***International Journal of Engineering Analysis with Boundary Elements*** 24:441-445, (2000).
- M. Sahin, L. N. Sankar, M. S. Chandrasekhara and C. Tung, Dynamic stall alleviation using a deformable leading edge concept - A numerical study. ***AIAA Journal of Aircraft*** 40:77-85, (2003).
- M. Sahin, Solution of the incompressible unsteady Navier-Stokes equations only in terms of the velocity components. ***International Journal of Computational Fluid Dynamics*** 17:199-203, (2003).
- M. Sahin and R. G. Owens, A novel fully-implicit finite volume method applied to the lid-driven cavity problem. Part I. High Reynolds number flow calculations. ***International Journal for Numerical Methods in Fluids*** 42:57-77, (2003).
- M. Sahin and R. G. Owens, A novel fully-implicit finite volume method applied to the lid-driven cavity problem. Part II. Linear stability analysis. ***International Journal for Numerical Methods in Fluids*** 42:79-88, (2003).
- M. Sahin and R. G. Owens, A numerical investigation of wall effects up to high blockage ratios on two-dimensional flow past a confined circular cylinder. ***Physics of Fluids*** 16:1305-1320, (2004).
- M. Sahin and R. G. Owens, On the effects of viscoelasticity on two-dimensional vortex dynamics in the cylinder wake. ***Journal of non-Newtonian Fluid Mechanics*** 123:121-139, (2004).

- M. Sahin, A preconditioned semi-staggered dilation-free finite-volume method for the incompressible Navier-Stokes equations on all-hexahedral elements. ***International Journal for Numerical Methods in Fluids*** 49:959-974, (2005).
- M. Sahin and H. J. Wilson, A semi-staggered dilation-free finite volume method for the numerical solution of viscoelastic fluid flows on all-hexahedral elements. ***Journal of non-Newtonian Fluid Mechanics*** 147:79-91, (2007).
- M. Sahin and H. J. Wilson, A parallel adaptive unstructured finite volume method for linear stability (normal mode) analysis of viscoelastic fluid flows. ***Journal of non-Newtonian Fluid Mechanics*** 155:1-14, (2008).
- D. G. Hassel, M. R. Mackley, M. Sahin, H. J. Wilson, O. G. Harlen and T. C. B. McLeish, Experimental and computational identification of a polymer melt flow instability. ***Physical Review E, 77,*** 050801-R, (2008).
- D. G. Hassel, M. R. Mackley, M. Sahin, H. J. Wilson, O. G. Harlen and T. C. B. McLeish, Experimental and computational identification of a polymer melt flow instability. It has been selected for the June 1, 2008 issue of ***Virtual Journal of Biological Physics Research*** by the American Physical Society and the American Institute of Physics.
- M. Sahin and K. Mohseni, An arbitrary Lagrangian-Eulerian formulation for the numerical simulation of flow patterns generated by the hydromedusa *Aequorea Victoria*. ***Journal of Computational Physics*** 228:4588-4605, (2009).
- M. Sahin, K. Mohseni and S. Colin, The numerical comparison of flow patterns and propulsive performances for the hydromedusae *Sarsia Tubulosa* and *Aequorea Victoria*. ***Journal of Experimental Biology*** 212:2656-2667, (2009).
- M. Sahin, A stable unstructured finite volume method for parallel large-scale viscoelastic fluid flow calculations. ***Journal of non-Newtonian Fluid Mechanics***166:779-791, (2011).
- M. Sahin, Parallel large-scale numerical simulations of purely-elastic instabilities behind a confined circular cylinder in a rectangular channel. ***Journal of non-Newtonian Fluid Mechanics*** 195:46-56, (2013).
- B. Erzincanli and M. Sahin, An arbitrary Lagrangian-Eulerian formulation for solving moving boundary problems with large displacement and rotations. ***Journal of Computational Physics***, 255:660-679, (2013).
- S. B. Yucel, M. Sahin and M. F. Unal, Strong transient effects of the flow around a harmonically plunging NACA0012 airfoil at low Reynolds numbers. ***Theoretical and Computational Fluid Dynamics,*** 29:391-412, (2015).
- B. Erzincanli and M. Sahin, The numerical simulation of the wing kinematics effects on near wake topology and aerodynamic performance in hovering *Drosophila* flight. ***Computer & Fluids,*** 122:90-110, (2015).
- A. Eken and M. Sahin, A parallel monolithic algorithm for the numerical simulation of large-scale fluid structure interaction problems. ***International Journal for Numerical Methods in Fluids***, 80:687-714, (2016).
- E. Oner and M. Sahin, A parallel adaptive viscoelastic flow solver with template based dynamic mesh refinement. ***Journal of non-Newtonian Fluid Mechanics***, 234:36-50, (2016).

B.Sc. STUDENTS

- E. Eyduran, Direct numerical simulations around low Reynolds number airfoils, (2010).
- S. Karaca, An integral equation method for the solution of the three-dimensional Stokes flow, (2011).
- E. Dilek, The comparison of Lagrangian and Eulerian coherent structures for hovering insect, (2015).
- D. T. Karahan, Large eddy simulation of the incompressible flow around an SD7003 airfoil, (2015).
- S. Akkurt, A Delaunay based algorithm for unstructured mesh generation, (2016).
- A. Cetin, Fluid structure interaction (FSI) of red blood cells, (2016).

M.Sc. STUDENTS

- R. K. Ata, An integral equation method with Hermite surfaces for particle sedimentation problems, (2013).

- O. Oduncu, Heat and mass transfer characteristic of a micro serpentine channel with a viscoelastic coolant. (2015).
- C. Guventurk, An ALE approach for free-surface simulations, (2016).
- E. Dilek, Numerical simulation of self-propulsion for swimming motion.

Ph.D. STUDENTS

- B. Erzincali, An arbitrary Lanrangian-Eulerian (ALE) formulation for the numerical solution of the insect flight, (2014).
- Eken, A monolithic approach for fluid–structure interaction problems, (2015).
- S. B. Yucel, Investigation of flapping wing interaction with a downstream object, (Co-advisor).
- E. Oner, A template based adaptive refinement algorithm for fluid flow problems.
- K. Ata, A numerical approach for plasma based flow control.

PhD. EXAM COMMITTEE

- H. Mercan, Numerical investigation of isothermal and non-isothermal viscoelastic flow in lid-driven polar cavity. Bogazici University, Istanbul, Turkey, (2012).
- K. Jensen, Structural optimization of non-Newtonian microfluidics. University of Denmark, Lyngby, Denmark.(2013).
- D. Izbassarov, Computational Modeling of Viscoelastic Two-Phase Systems, Koc University, Istanbul, Turkey (2016).

REFEREED JOURNALS

- ASME Journal of Fluids Engineering
- Computers & Fluids
- Chemical Engineering Science
- Energy Conversion and Management
- Engineering Applications of Computational Fluid Mechanics
- Industrial & Engineering Chemistry Research
- International Journal for Numerical Methods in Fluids
- International Journal of Computational Methods
- International Journal of Heat and Mass Transfer
- Journal of Fluid and Structures
- Journal of non-Newtonian Fluid Mechanics
- Progress in Computational Fluid Dynamics, An International Journal (PCFD)
- Theoretical and Computational Fluid Dynamics
- Turkish Journal of Engineering and Environmental Sciences

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