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9

Citations (Scopus):

353

Supervised PhD Theses

#	Thesis title	By	Date
1	A Hybrid Mesh-less and Cartesian Grid for Solution of Unsteady Compressible Flow	Mir Yoseph Hashemi & Alireza Jahangirian	October 2010
2	A Fast Method for Evolutionary Optimization of Viscous Transonic Airfoils Using Neural Nets	Ava Shahrokhi & Alireza Jahangirian	December 2008

Supervised MSc Theses

#	Thesis title	By	Date
1	The numerical study of aerodynamic forces acting on a morphing wing section during transition from cruise to landing configuration	Navid Naderi & Alireza Jahangirian	May 2022
2	Numerical flow simulation around prisms in Different incidence Angles	Ali Sabermogaddam & Alireza Jahangirian	September 2021
3	Numerical Investigation on Air Pollution Emissions from Line Sources	Bahareh Mortazavi & Alireza Jahangirian	February 2021
4	Aerodynamic shape optimization of civil aircraft fuselage using genetic algorithms and numerical flow solution	Seyed Vahidreza Rohani & Alireza Jahangirian	February 2019
5	Numerical simulation of a passive flow control around a cylinder	Seyed Ahmadreza Erfanian & Alireza Jahangirian	September 2018

6	Aerodynamic Optimization of Horizontal Axis Wind Turbine Blade	Mahdi Azizi & Alireza Jahangirian	February 2018
7	The effect of booster geometry on aerodynamic performance of a space launch rocket	Ali Hajibagheri & Alireza Jahangirian	February 2018
8	a grid movement method for optimization of intelligent air foils	Meisam Nemati & Alireza Jahangirian	October 2016
9	Convergence acceleration of Mesh-less solution of Navier-Stokes equation using Multi-Cloud method	Alireza Shamiri & Alireza Jahangirian	February 2016
10	airfoil aerodynamic optimization for landing and take off phase	Masoud Heidari & Alireza Jahangirian	February 2015
11	Preconceptual Design of Air-Launch System for Space Missions Based on Local Abilities	Mohamad Saleh Afshar & Alireza Jahangirian	February 2015
12	optimization of an airfoil using flow solver based on hybrid grid	Shakiba Moradi & Alireza Jahangirian	October 2014
13	airfoil transonic flow control using suction and injection parameters optimization	Zahra Seifollahi Moghadam & Alireza Jahangirian	October 2014
14	Design of a civil aircraft wing for efficient aerodynamic performance.	Mahdi Asqarian & Alireza Jahangirian	January 2014
15	hypersonic velocity simulation on 3D bodies with respect to hot gas effect	Mahdi Dadkhah & Alireza Jahangirian	October 2012
16	FEM mesh generation in 3D surfaces containing progressive cracks under mixed mode loading condition	Ali Nazokkar & Alireza Jahangirian	March 2012
17	The Numerical Investigation of The Influence Exit Jet Motor On The Missile Aerodynamical Performance	Mohsen Darmanaki Farahani & Alireza Jahangirian	February 2012
18	a meshless method for computation of 2-D turbulent flows	Morteza Namvar & Alireza Jahangirian	October 2011
19	Solution of compressible viscous flow around 3D moving bodies	Vahid Daeizehab & Alireza Jahangirian	June 2011
20	3_D compressible flow solution using meshless method	Samad Sattarzadeh & Alireza Jahangirian	February 2011
21	the numerical investigation of wind tunnel walls effects on aerodynamics characteristics of oscillating airfoils	Ali Reza Sanaeikia & Alireza Jahangirian	February 2011
22	adaptive Cartesian grid for computation of 2D viscous flow	Omid Motarekat & Alireza Jahangirian	June 2010
23	3-D Cartesian Grid Generation	Alireza Heidary & Alireza Jahangirian	June 2010
24	Computation of flow around iced-airfoils	Mazaher Rezaeifar & Alireza Jahangirian	January 2010
25	AERODYNAMIC STUDY OF AIR POLLUTION DISPERSION BY NUMERICAL METHOD	Mehdi Ebrahimi & Alireza Jahangirian	May 2008
26	Numerical Solution of the viscous flow using hot Gas effect on unstructured Grids	Mir Yoseph Hashemi & Alireza Jahangirian	October 2005
27	Aerodynamic forces and its effects on the orbital motion of a LEO satellite	Taleb Abdollahy & Alireza Jahangirian	December 2004

Journal Papers

Portal Records

- 1 Nima Alizadeh, Alireza Jahangirian, "Optimum Design of Blade Flaps for Improving the Power Generation of a Horizontal Axis Wind Turbine", , March 2022 Vol. 1, Num. 1, Page 1-20, March 2022,
- 2 Masoud Heidari Soreshjani, Alireza Jahangirian, "A New Metaheuristic Method with Applications to Airfoil Shape Optimization", AUT Journal of Mechanical Engineering, December 2021 Vol. 0, Num. 0, Page 1-10, December 2021,
- 3 Mahdi Azizi, Alireza Jahangirian, "Aerodynamic Optimization of a Wind Turbine Blade for Maximum Annual Energy Production at Manjil Wind Farm", Journal of Aerospace Science and Technology, September 2021 Vol. 14, Num. 2, Page 1-9, September 2021,
- 4 Masoud Heidari Soreshjani, Alireza Jahangirian, "An investigation on winglet design with limited computational cost, using an efficient optimization method", AEROSPACE SCIENCE AND TECHNOLOGY, July 2021 Vol. 1, Num. 1, Page 1-17, July 2021,
- 5 Amirhossein Rouhollahi, Alireza Jahangirian, Masoud Heidari Soreshjani, "A Numerical Investigation on the Effect of Blade Tip Shapes on Power Generation of a Horizontal Axis Wind Turbine", , February 2021 Vol. 1, Num. 1, Page 1-10, February 2021,
- 6 Meisam Nemati, Alireza Jahangirian, "Robust aerodynamic morphing shape optimization for high-lift missions", AEROSPACE SCIENCE AND TECHNOLOGY, June 2020 Vol. 103, Num. 0, Page 1-10, June 2020,
- 7 Siavash Kabirian, Alireza Jahangirian, "Investigation of different aspects of DBD Plasma Actuators on airflow around a Wing", , April 2020 Vol. 36, Num. 1, Page 19-28, April 2020,
- 8 Alireza Jahangirian, Seyed Ahmadreza Erfanian, "Turbulent Flow Control over Circular Cylinder using Combination of Splitter Plate and Control Cylinder", , April 2020 Vol. 36, Num. 1, Page 3-10, April 2020,
- 9 Mahdi Azizi, Alireza Jahangirian, "Multi-site aerodynamic optimization of wind turbine blades for maximum annual energy production in East Iran", ENERGY SCIENCE & ENGINEERING, January 2020 Vol. 1, Num. 1, Page 1-18, January 2020,
- 10 Meisam Nemati, Alireza Jahangirian, "The effects of viscosity on design optimization of transonic airfoils using enhanced Genetic Algorithm", , May 2019 Vol. 35-3, Num. 1, Page 33-42, May 2019,
- 11 Roohollah Khoshkhou, Alireza Jahangirian, Farzaneh Sharafbafi, "analysis of fleet type impact on the threats and errors of an airline using line operations safety audit (LOSA)", Aviation, August 2018 Vol. 22, Num. 1, Page 31-39, August 2018,
- 12 Narjes Timnak, Alireza Jahangirian, S.Ali Seyyedsalehi, "An optimum neural network for evolutionary aerodynamic shape design", SCIENTIA IRANICA TRANSACTION B-MECHANICAL ENGINEERING, September 2017 Vol. 24, Num. 5, Page 2490-2500, September 2017,
- 13 Mehdi Ebrahimi, Alireza Jahangirian, "Airfoil Shape Optimization with Adaptive Mutation Genetic Algorithm", Journal of Aerospace Science and Technology, August 2017 Vol. 11, Num. 1, Page 47-59, August 2017,
- 14 Mehdi Ebrahimi, Alireza Jahangirian, "Accelerating global optimization of aerodynamic shapes using a new surrogate-assisted parallel genetic algorithm", ENGINEERING OPTIMIZATION, February 2017 Vol. 0, Num. 0, Page 1-16, February 2017,
- 15 Narjes Timnak, Alireza Jahangirian, "Multi-point optimization of transonic airfoils using an enhanced genetic algorithm", PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART G-JOURNAL OF AEROSPACE ENGINEERING, December 2016 Vol. 0, Num. 0, Page 1-14, December 2016,

- 16 Zahra Seifollahi Moghadam, Alireza Jahangirian, "Flow Control of Transonic Airfoils using Optimum Suction and Injection Parameters", *Journal of Applied Fluid Mechanics JAFM*, December 2016 Vol. 10, Num. 1, Page 103-115, December 2016,
- 17 Roohollah Khoshkhou, Alireza Jahangirian, "Numerical Simulation of Stall Flow Control Using a DBD Plasma Actuator in Pulse Mode", *PLASMA SCIENCE & TECHNOLOGY*, September 2016 Vol. 18, Num. 9, Page 933-942, September 2016,
- 18 Mehdi Ebrahimi, Alireza Jahangirian, "A Hierarchical Parallel Strategy for Aerodynamic Shape Optimization with Genetic Algorithm", *SCIENTIA IRANICA TRANSACTION D-COMPUTER SCIENCE & ENGINEERING AND ELECTRICAL ENGINEERING*, November 2015 Vol. 22, Num. 6, Page 2379-2388, November 2015,
- 19 Roohollah Khoshkhou, Alireza Jahangirian, "numerical simulation of flow separation control using multiple DBD plasma actuators", *Journal of Applied Fluid Mechanics JAFM*, August 2015 Vol. 9, Num. 4, Page 1-22, August 2015,
- 20 Samad Sattarzadeh, Alireza Jahangirian, Hosein Shahverdi, "Aeroelastic Analysis of a Typical Section using Euler and Navier-Stokes Mesh-less Method", *SCIENTIA IRANICA TRANSACTION B-MECHANICAL ENGINEERING*, April 2015 Vol. 0, Num. 0, Page 1-30, April 2015,
- 21 Samad Sattarzadeh, Alireza Jahangirian, "A Comparative Study on Various Adaptive Meshless Methods for Steady and Unsteady Flow Calculations", *SCIENTIA IRANICA TRANSACTION B-MECHANICAL ENGINEERING*, February 2015 Vol. 0, Num. 0, Page 1-25, February 2015,
- 22 Samad Sattarzadeh, Alireza Jahangirian, M.Y. Hashemi, "Unsteady compressible flow calculations with least-square mesh-less method", *Journal of Applied Fluid Mechanics JAFM*, January 2015 Vol. 9, Num. 3, Page 1-11, January 2015,
- 23 Roohollah Khoshkhou, Alireza Jahangirian, "Flow separation control over airfoils using DBD plasma body force", *JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING*, December 2014 Vol. 2014, Num. 1, Page 1-13, December 2014,
- 24 Mehdi Ebrahimi, Alireza Jahangirian, "Aerodynamic Optimization of Airfoils Using Adaptive Parameterization and Genetic Algorithm", *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS*, October 2013 Vol. 1, Num. 1, Page 1-11, October 2013,
- 25 Ali Reza Sanaeikia, Alireza Jahangirian, "The effects of wind tunnel walls on flow over oscillating airfoils", , September 2013 Vol. 1, Num. 1, Page 1-10, September 2013,
- 26 Morteza Namvar, Alireza Jahangirian, "An investigation of mesh-less calculation for compressible turbulent flows", *COMPUTERS & FLUIDS*, August 2013 Vol. 86, Num. 2013, Page 483-489, August 2013,
- 27 Mehdi Ebrahimi, Alireza Jahangirian, "New analytical formulations for calculation of dispersion parameters of Gaussian model using parallel CFD", *ENVIRONMENTAL FLUID MECHANICS*, November 2012 Vol. 13, Num. 2, Page 125-144, November 2012,
- 28 Samad Sattarzadeh, Alireza Jahangirian, "3D implicit mesh-less method for compressible flow calculations", *Scientia Iranica*, May 2012 Vol. 19, Num. 3, Page 503-512, May 2012,
- 29 Alireza Jahangirian, Mir Yoseph Hashemi, "Adaptive Cartesian grid with mesh-less zones for compressible flow calculations", *COMPUTERS & FLUIDS*, January 2012 Vol. 54, Num. 54, Page 10-17, January 2012,
- 30 Mir Yoseph Hashemi, Alireza Jahangirian, "An efficient implicit mesh-less method for compressible flow calculations", *INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS*, October 2011 Vol. 67, Num. 6, Page 754-770, October 2011,
- 31 Alireza Jahangirian, Ava Shahrokhi, "Aerodynamic shape optimization using efficient evolutionary algorithms and unstructured CFD solver", *COMPUTERS & FLUIDS*, July 2011 Vol. 46, Num. 1, Page 270-276, July 2011,
- 32 Omid Motarekat, Alireza Jahangirian, "A hybrid cartesian grid generation method for aerodynamic computation of viscous flows", , December 2010 Vol. 12, Num. 2, Page 1-8, December 2010,
- 33 Mir Yoseph Hashemi, Alireza Jahangirian, "Implicit fully mesh-less method for compressible viscous flow calculations", *Journal of Computational and Applied Mathematics*, August 2010 Vol. 0, Num. 0, Page 0-0, August 2010,

- 34 Ava Shahrokhi, Alireza Jahangirian, "A surrogate assisted evolutionary optimization method with application to the transonic airfoil design", Engineering Optimization, June 2010 Vol. 42, Num. 6, Page 0-0, June 2010,
- 35 Alireza Jahangirian, Ava Shahrokhi, "Inverse Design of Transonic Airfoils Using Genetic Algorithm and a New Parametric Shape Method", , July 2009 Vol. , Num. 5, Page 0-0, July 2009,
- 36 Alireza Jahangirian, Yashar Shoraka, "Adaptive unstructured grid generation for engineering computation of aerodynamic flows", , September 2008 Vol. , Num. 78, Page 0-0, September 2008,
- 37 Ava Shahrokhi, Alireza Jahangirian, "The Effects of Shape Parameterization on The Efficiency of Evolutionary Design Optimization for Viscous Transonic Airfoils", , March 2008 Vol. , Num. 1, Page 0-0, March 2008,
- 38 Mir Yoseph Hashemi, Alireza Jahangirian, "Simulation of High-Speed Flows by an Unstructured Grid Implicit Method Including Real Gas Effects", , March 2008 Vol. , Num. 56, Page 0-0, March 2008,
- 39 Ava Shahrokhi, Alireza Jahangirian, "Airfoil Shape Parameterization for Optimum Navier-Stokes Design With Genetic Algorithm", , September 2007 Vol. , Num. 11, Page 0-0, September 2007,
- 40 Mostafa Hadidoobi, Alireza Jahangirian, "An Efficient Implicit Method for Solution of Compressible Turbulent Flows on Unstructured Grids", , July 2005 Vol. , Num. 3, Page 0-0, July 2005,
- 41 Mostafa Hadidoobi, Alireza Jahangirian, "Two- Equation Turbulence Modeling of Unsteady Flows Using Dual _ Time Implicit Method on Unstructured Grids", , April 2005 Vol. , Num. 13, Page 0-0, April 2005,
- 42 Alireza Jahangirian, Mostafa Hadidoolabi, "Unstructured moving grids for implicit calculation of unsteady compressible viscous flows", , April 2005 Vol. , Num. , Page 0-0, April 2005,
- 43 Alireza Jahangirian, Sina Arabi Narehei, "On efficiency of an unstructured grid generation method for aerospace applications", , March 2005 Vol. , Num. 1, Page 0-0, March 2005,

Conference Papers

Portal Records







- 1 Amirhossein Rouhollahi, Alireza Jahangirian, "analysis of pollution condition of iranian civil aircraft fleet ", 19th international conference of iranian aerospace society, May 2021
- 2 Mahdi Azizi, Alireza Jahangirian, "Aerodynamic Optimization of a Wind Turbine Blade for Maximum Annual Energy Production at Manjil Wind Farm ", 18th Int. Conference of Iranian Aerospace Society, February 2020
- 3 Seyed Vahidreza Rohani , Alireza Jahangirian, Fatemeh Ardaneh, "a ", 18th Int. Conference of Iranian Aerospace Society, February 2020
- 4 Mohammad Hossein Moradi, Alireza Jahangirian, "a ", 18th Int. Conference of Iranian Aerospace Society, February 2020
- 5 Nima Alizadeh, Alireza Jahangirian, "a ", 18th Int. Conference of Iranian Aerospace Society, February 2020
- 6 Nima Alizadeh, Alireza Jahangirian, "design and fabrication of a horizontal axis wind turbine and its experimental test on a wind tunnel ", 27, April 2019
- 7 Alireza Jahangirian, Mehdi Hedaghikalle, "An investigation on noise pollution of iranian civil aircrafts in comparison with international standards ", 6th conference on air and sound pollution management, January 2018
- 8 Fatemeh Shekarriz, Alireza Jahangirian, "An Investigation on Pollution Dispersion of Imam Khomeini Oil Refinery Company Using Numerical Method ", 6th conference on air and sound pollution management, January 2018
- 9 Alireza Jahangirian, Meisam Nemati, "Optimum Morphing Airfoil Design Using Evolutionary Algorithm and CFD Solver ", The 25th Annual Conference of the CFD Society of Canada, June 2017
- 10 Morteza Namvar, Alireza Jahangirian, "A Mesh-less method for viscous flow simulation ", The 25th Annual Conference of the CFD Society of Canada, 18-20 June, June 2017

- 11 Narjes Timnak, Alireza Jahangirian, "An Efficient Mutation Strategy for Inverse Design of Airfoil Shape Optimization with Genetic Algorithm ", The 25th Annual Conference of the CFD Society of Canada, June 2017
- 12 Alireza Jahangirian, Roohollah Khoshkhou, "Numerical Simulation of Flow Separation Control over a Hump Using DBD Plasma Actuator ", 30th Congress of the International Council of the Aeronautical Sciences, ICAS 2016, September 2016
- 13 Zahra Seifollahi Moghadam, Alireza Jahangirian, "NUMERICAL STUDY OF ACTIVE SHOCK WAVE-TURBULENT BOUNDARY LAYER INTERACTION CONTROL FOR TRANSONIC AERODYNAMICS ", 30th Congress of the International Council of the Aeronautical Sciences ICAS 2016, September 2016
- 14 Alireza Jahangirian, Mehdi Ebrahimi, "AERODYNAMIC SHAPE OPTIMIZATION WITH A NEW PARALLEL EVOLUTIONARY ALGORITHM AND NUMERICAL FLOW MODELLING ", 30th Congress of the International Council of the Aeronautical Sciences ICAS 2016, September 2016
- 15 Alireza Jahangirian, Samad Sattarzadeh, "A MESH-LESS METHOD FOR COMPRESSIBLE FLOW CALCULATIONS AT ALL SPEED CONDITIONS ", 30th Congress of the International Council of the Aeronautical Sciences ICAS 2016, September 2016
- 16 Saeed Norouzi, Alireza Jahangirian, "A ", 15th international conference of Iranian aerospace society, February 2016
- 17 Alireza Shamiri, Alireza Jahangirian, "A ", 15th international conference of Iranian aerospace society, February 2016
- 18 Masoud Heidari, Mehdi Ebrahimi, Alireza Jahangirian, "morphing airfoil aerodynamic optimization using parallel genetic algorithm ", 23th Annual International Mechanical Engineering Conference, May 2015
- 19 Masoud Heidari, Mehdi Ebrahimi, Alireza Jahangirian, "improve morphing airfoil optimization using parallel evolutionary algorithm ", 14th International Conference of Iranian Aerospace Society, March 2015
- 20 Alireza Jahangirian, Shakiba Moradi, Zahra Seifollahi Moghadam, "Optimization of airfoil using a hybrid grid flow solver ", 14th aerospace society conference, April 2014
- 21 Samad Sattarzadeh, Hosein Shahverdi, Alireza Jahangirian, "Development of a mesh-less method for flutter prediction ", 13th Conference of Iranian Aerospace Society, March 2014
- 22 Samad Sattarzadeh, Alireza Jahangirian, "An adaptive point method for solution of N.S equations with mesh less approach ", 13th Iranian aerospace society conference, March 2014
- 23 Alireza Jahangirian, Fatemeh Aghazadeh, Mohammad Sadegh Davodi Moghadam, Shakiba Moradi, "An investigation on air transport demand for next 20 years ", aerospace conference, February 2013
- 24 Arash Soltani Dehkharghani, Alireza Jahangirian, Mohammad Sadegh Davodi Moghadam, "Achieving the design of aircraft engine ", Aerospace Conference, February 2013
- 25 Seyed Reza Razavi, Alireza Jahangirian, Mohammad Sadegh Davodi Moghadam, Morteza Namvar, "key technologies of design and fabrication of civil aircraft systems ", Aerospace conference, February 2013
- 26 Mehdi Ebrahimi, Alireza Jahangirian, "aa ", National conference on environment measurement and modeling, November 2012
- 27 Alireza Jahangirian, Samad Sattarzadeh, Mir Y.Hashemi, "A mesh-less method for unsteady compressible flow calculations ", International conference on applied and computational mathematics, October 2012
- 28 Mahdi Dadkhah, Alireza Jahangirian, "3D HYPERSONIC FLOW INCLUDING HOT GAS EFFECTS ", First Aerodynamics and Hydrodynamics Conference, October 2012
- 29 Ali Reza Sanaeikia, Alireza Jahangirian, "A ", AERO2011, March 2011
- 30 Alireza Heidary, Alireza Jahangirian, "A ", A, March 2011
- 31 Samad Sattarzadeh, Alireza Jahangirian, Mir Yoseph Hashemi, "A ", AERO 2011, March 2011
- 32 Alireza Jahangirian, Ava Shahrokhi, "Aerodynamic Shape Optimization using Efficient Evolutionary Algorithms and Unstructured CFD Solver ", Numerical Methods for Fluid Dynamics-ICFD 2010, April 2010

- 33 Alireza Jahangirian, Mir Yoseph Hashemi, "Adaptive Cartesian Grid with Mesh-less Zones for Compressible Flow Calculations ", Numerical Methods for Fluid Dynamics-ICFD 2010, April 2010
- 34 Mir Yoseph Hashemi, Alireza Jahangirian, "Implicit fully mesh less method for copressible viscous flow calculations ", , September 2009
- 35 Alireza Jahangirian, Mir Yoseph Hashemi, "Hybrid unstructured cartesian grid with meshless zones for compressible flow calculations ", , May 2009
- 36 Alireza Jahangirian, "An adaptive cartesian unstructured grid generation method for moving boundary applications ", , June 2008
- 37 Ava Shahrokhi, Alireza Jahangirian, "Effect of shape parameterization on aerodynamic evolutionary optimization of viscous transonic airfoils ", , February 2008
- 38 Ava Shahrokhi, Alireza Jahangirian, "An Efficient Aerodynamic Optimization Method Using a Genetic Algorithm and a Surrogate Model ", , December 2007
- 39 Alireza Jahangirian, "An Efficient Dual-Time Implicit Method for High-Lift Aerodynamics Using Differential Reynolds-Stress Modelling ", , July 2007
- 40 Mir Yoseph Hashemi, Alireza Jahangirian, "Simulation of High Speed Flows by an Unstructured Grid Implicit Method Including Real Gas Effects ", , March 2007
- 41 Alireza Jahangirian, "A Dual-Time Implicit Solution Procedure for the Reynolds-Averaged Navier-Stokes Equations on Unstructured Grids for High-Lift Aerodynamic Flows ", , March 2007
- 42 Hamed Alisadeghi, S.M.H. Karimian, Alireza Jahangirian, "Simulation of 2D turbulent flows on hybrid dynamic meshes ", , February 2007
- 43 Ava Shahrokhi, Alireza Jahangirian, "A new real coded adaptive range genetic algorithm applied to aerodynamic design of airfoils ", , January 2007
- 44 Alireza Jahangirian, Yashar Shoraka, "A cartesian - base unstructured grid generation method for moving boundary applications ", , October 2006
- 45 Hamed Alisadeghi, Mohammad Mehdy Mirsajady, S.M.H. Karimian, Alireza Jahangirian, "An implicit dual time-stepping algorithm for hybrid dynamic meshes ", , July 2006
- 46 Ava Shahrokhi, Alireza Jahangirian, Nematalah Foladi, "Navier- stokes optimization using genetic algorithm and a flexible parametric airfoil method ", , March 2006
- 47 Alireza Jahangirian, Yashar Shoraka, "Adaptive Unstructured Grid Generation for Engineering Computation of Aerodynamic Flows ", , October 2005
- 48 Alireza Jahangirian, Nematalah Foladi, "Unstructured Dynamic Grids for Aerodynamic Shape Optimization with Genetic Algorithm ", , June 2005
- 49 Alireza Jahangirian, "implicit central - difference method for solution of three dimensiona unsteady aerodynamics ", , June 2005
- 50 Nematalah Foladi, Alireza Jahangirian, "Aerodynamic Design optimization using the Numerical flow simulation and algorithms ", , February 2005
- 51 Nematalah Foladi, Alireza Jahangirian, "A new combined method in aerodynamic shape optimization using genetic algorithm and neural network ", , February 2005
- 52 Alireza Jahangirian, Mostafa Hadidoolabi, "An Implicit solution of the unsteady NS Equations on unstrctured moring Grids . ", , August 2004
- 53 Alireza Jahangirian, Mostafa Hadidooabi, "Hnstructured moring gridn for implicit ealculation of un steady compressible viscous flows ", , March 2004
- 54 Mostafa Hadidoolabi, Alireza Jahangirian, "An efficient implicit method for solution of the compressible N.S equations on unstructured grids ", , January 2004

- 55 Alireza Jahangirian, [en-name N/A], "Privatization in Iranian Railways.A restructuring Program ", , October 2002
- 56 Alireza Jahangirian, "The impact of Railway Testructuring on the efficiency and competitiveness of rail transportation ", , October 2002
- 57 Alireza Jahangirian, "A Solution Adaptive Grid Method for Computation of High Speed Flows Around Blunt Body Configurations ", , September 2001
- 58 Alireza Jahangirian, Farhad Rahmati, "Development of Iranian railways : past . present and future ", , June 2001
- 59 Alireza Jahangirian, "developments of technical research in iranian railways ", , March 2000
- 60 Alireza Jahangirian, "On Efficiency of an Unstructured Grid Method for Aerospace Applications ", , January 2000
- 61 Alireza Jahangirian, S.M.H. Karimian, Mohammad Reza Shahbazy, "Aerodynamic Design of Barriers against Sand_storm near Railway routes ", , September 1999
- 62 Alireza Jahangirian, L.J Johnston, "Automatic Generation of Unstructured Grids for Viscous Flow Applications Using Directional Refinement ", , January 1999
- 63 Alireza Jahangirian, L.J Johnston, "Unstructured Grid Flow Adaptation for High Re Number Transonic Flow Computations ", , May 1998

Taught Courses

#	Course title	Description	Headlines	Date
1	Numerical Grid Generation	a		Spring 2022
2	Introd. to Comput. Fluid Dyn.) fundamentals of cfd - how a cfd code works- how to use a cfd code		Spring 2022
3	Computational Fluid Dynamics (I)	study of governing flow equations and their numerical solution methods		Fall 2021
4	Aerodynamics (I)	To achieve the fundamentals of incompressible aerodynamics		Fall 2021
5	Introd. to Comput. Fluid Dyn.) fundamentals of cfd - how a cfd code works- how to use a cfd code		Spring 2021
6	Numerical Grid Generation	a		Spring 2021