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h-index (Scopus):

3

Citations (Scopus):

16



## Books

#	Title	Author(s)	Publisher country	publication date	version
<b>Portal Records</b>					
1	Krylov Subspace Methods with Application in Incompressible Fluid Flow Solvers	Iman Farahbakhsh	United States	September 2020	1

## Journal Papers

### Other Records

- 1 I. Farahbakhsh, H. S. Dou, "Derivation of energy gradient function for Rayleigh-Taylor instability", *Fluid Dynamics Research*, 2018 Vol. 50, Num. 4, Page 045509, 2018,
- 2 I. Farahbakhsh, H. Ghassemi and F. Sabetghadam, "A vorticity based approach to handle the fluid-structure interaction problems", *Fluid Dynamics Research*, 2016 Vol. 48, Num. 1, Page 015509, 2016,
- 3 I. Farahbakhsh, H. Ghassemi, F. Sabetghadam, "An immersed boundary method based on the kinematic relation of the velocity-vorticity formulation", *Journal of Mechanics*, 2015 Vol. 31, Num. 2, Page 171, 2015,
- 4 I. Farahbakhsh, H. Ghassemi and F. Sabetghadam, "A One-Continuum Approach for Mutual Interaction of Fluids and Structures", *Journal of Mechanics*, 2015 Vol. 31, Num. 6, Page 745, 2015,




- 5 I. Farahbakhsh, S. S. Nourazar, H. Ghassemi, H. S. Dou, A. Nazari-Golshan, " On the instability of plane Poiseuille flow of two immiscible fluids using the energy gradient theory", *Journal of Mechanics*, 2014 Vol. 30, Num. 3, Page 299, 2014,
- 6 I. Farahbakhsh, A. Paknejad, H. Ghassemi, " Numerical simulation of 2-D laminar flow subjected to the Lorentz force effect in a channel with backward-facing step", *Journal of Mechanical Science and Technology*, 2012 Vol. 26, Num. 10, Page 3111, 2012,
- 7 I. Farahbakhsh, H. Ghassemi, "Numerical investigation of the Lorentz force effect on the vortex transfiguration in a two-dimensional lid-driven cavity", *Proc. IMechE Part C: J. Mechanical Engineering Science*, 2010 Vol. 224, Num. , Page 1217, 2010,

## Conference Papers

### Other Records

- 1 I. Farahbakhsh, F. Sabetghadam, H. Ghassemi, A. Mostofizadeh, "Storage Schemes Effect on the CPU-Time of the Krylov Subspace Methods in Solving the Linear Systems Arising from CFD", 14th Conference On Fluid Dynamics, 2012
- 2 F. Sabetghadam, I. Farahbakhsh, A. Mostofizadeh and S. S. Taheri, "Applying the Krylov Subspace Methods to Immersed Boundary Solution of Fluid Incompressible Flow", 10th Iranian Aerospace Society Conference, 2011

## Taught Courses

#	Course title	Description	Headlines	Date
1	Finite Element Methods in Welding	This course attempts to explain the basic concepts of the finite element method in order to facilitate the application of these concepts in the engineering software utilizing this method.		Fall 2021
2	Application of Computers and Robots in the Welding Industry	The welding industry is one of the dynamic industries that have undergone high evolution because of the latest developments in technology. The technological developments have consistently enhanced the quality, adaptability and the accuracy of the who		Spring 2021
3	Finite Element Methods in Welding	This course attempts to explain the basic concepts of the finite element method in order to facilitate the application of these concepts in the engineering software utilizing this method.		Fall 2020