

Lect. PhD REHA AVŞAR

Personal Information

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Education Information

Doctorate, Rice University, George R. Brown School of Engineering, Department of Mechanical Engineering, United States Of America 2016 - 2021

Postgraduate, The University of Houston, Cullen College of Engineering, Department of Mechanical Engineering, United States Of America 2014 - 2016

Undergraduate, Marmara University, Faculty Of Engineering, Mechanical Engineering, Turkey 2007 - 2012

Dissertations

Doctorate, Spacecraft Parachute Fluid Mechanics Computation Based on Space-Time Isogeometric Analysis With T-splines, Rice University, George R. Brown School of Engineering, Department of Mechanical Engineering, 2021

Research Areas

Fluid Mechanics, Finite Element Methods, Computational fluid dynamics

Academic Titles / Tasks

Lecturer PhD, Istanbul Medeniyet University, Faculty of Engineering and Natural Sciences, Mechanical Engineering, 2022
- Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Gas turbine computational flow and structure analysis with isogeometric discretization and a complex-geometry mesh generation method**
Bazilevs Y., Takizawa K., Wu M. C. H. , Kuraishi T., Avsar R., Xu Z., Tezduyar T. E.
COMPUTATIONAL MECHANICS, vol.67, no.1, pp.57-84, 2021 (Journal Indexed in SCI)
- II. **A low-distortion mesh moving method based on fiber-reinforced hyperelasticity and optimized zero-stress state**
Takizawa K., Tezduyar T. E. , Avsar R.
COMPUTATIONAL MECHANICS, vol.65, no.6, pp.1567-1591, 2020 (Journal Indexed in SCI)
- III. **Space-time VMS flow analysis of a turbocharger turbine with isogeometric discretization: computations with time-dependent and steady-inflow representations of the intake/exhaust cycle**
Otoguro Y., Takizawa K., Tezduyar T. E. , Nagaoka K., Avsar R., Zhang Y.
COMPUTATIONAL MECHANICS, vol.64, no.5, pp.1403-1419, 2019 (Journal Indexed in SCI)

EDIT CONGRESS AND SYMPOSIUM ACTIVITIES

15th U.S. National Congress on Computational Mechanics, Invited Speaker, Texas, United States Of America, 2019

Citations

Total Citations (WOS):57

h-index (WOS):3