

Prof. Selin Aradağ Çelebiođlu

Personal Information

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International Researcher IDs

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ScopusID: 11440423900

Yoksis Researcher ID: 143685

Biography

Selin Aradag obtained her BS and MS degrees from the Department of Mechanical Engineering of Middle East Technical University in 2000 and 2002. She received her Ph.D. from the Mechanical and Aerospace Engineering Department of Rutgers University, USA in 2006. She worked for the United States Air Force Academy as a researcher for two years after completing her doctoral degree.

She worked as faculty member at TOBB University of Economics and Technology, Department of Mechanical Engineering from 2008 to 2019. She was appointed as Professor in 2017. She established TOBB ETU Hydro Turbine Design and Test Center (ETU Hydro) as the founding director with a ten million dollars funding from the Ministry of Development. Establishment and operation of a state of the art turbine test laboratory, a high performance computational facility, advanced manufacturing and quality control laboratory were performed with the funding under her direction. She also led several projects funded by Tübitak, Air Force Office of Scientific Research, Department of Defense, Ministry of Development, Ministry of Industry and other organizations with a total budget of twenty million dollars. She also worked as consultant for several companies. She was the principal investigator of MILHES project where the first hydro turbine of the country was designed, tested, manufactured and implemented at Kepez Hydroelectric Power Plant. Selin Aradag has more than 100 publications, a book, several book chapters and patents.

She is the recipient of Turkish Academy of Sciences Distinguished Young Scientist Award (TÜBA GEBİP) in 2010. She has best paper awards at several conferences and was selected as an Associate Fellow of American Institute of Aeronautics and Astronautics (AIAA) due to her contributions to Aeronautics in 2022. She served as advisory board member for Transportation, Defense, Energy and Textile Technologies Group which functions under the Technology and Innovation Funding Programs department of TÜBİTAK (The Scientific and Technological Research Council of Turkey) and she was the Editor in Chief of Journal of Thermal Sciences and Technology until 2023. She is currently Executive Board member of Society of Thermal Science and Technology. She is also Management Committee member of the European Union Cost Action on Digital and Sustainable Hydropower and acts as consultant for TOBB ETU Hydro which she founded.

She has served at several administrative positions such as Department Chair and Dean of Graduate School at TED University since she joined TEDÜ as a Professor in 2019. She is currently acting as the Dean of the Faculty of Engineering. Her areas of expertise and interest are computational, experimental and machine learning studies in Flow control, Fluid Mechanics, Heat Exchangers and Hydro Energy.

Education Information

Doctorate, Rutgers University, Mechanical and Aerospace Engineering, United States Of America 2002 - 2006

Postgraduate, Middle East Technical University, Mechanical Engineering, Turkey 2000 - 2002

Undergraduate, Middle East Technical University, Mechanical Engineering, Turkey 1996 - 2000

Foreign Languages

English

Certificates, Courses and Trainings

Effective Negotiation certificate, Karrass, 2006

Research Areas

Mechanical Engineering, Energy, Aeronautical and Space Engineering

Academic Titles / Tasks

Professor, TED University, Faculty Of Engineering, Department Of Mechanical Engineering, 2019 - Continues

Professor, TOBB University of Economics and Technology, Mechanical Engineering, 2017 - 2019

Associate Professor, TOBB University of Economics and Technology, Mechanical Engineering, 2012 - 2017

Assistant Professor, TOBB University of Economics and Technology, Mechanical Engineering, 2008 - 2012

Researcher, United States Air Force Academy, Aeronautics, 2006 - 2008

Research Assistant, Rutgers University, Mechanical and Aerospace Engineering, 2002 - 2006

Lecturer, Rutgers University, Mechanical and Aerospace Engineering, 2005 - 2005

Research Assistant, Middle East Technical University, Mechanical Engineering, 2000 - 2002

Academic and Administrative Experience

Dean, TED University, Faculty Of Engineering, 2023 - Continues

University Executive Board Member, TED University, Rectorate, 2023 - Continues

Stratejik Plan Tema Grubu Başkanı, TED University, Rectorate, 2021 - Continues

Fakülte Yönetim Kurulu Üyesi, TED University, Faculty Of Engineering, 2021 - Continues

Rectorate Commissioner, TED University, Rectorate, 2020 - Continues

Member of the Senate, TED University, Rectorate, 2019 - Continues

Fakülte Kurulu Üyesi, TED University, Faculty Of Engineering, 2019 - Continues

Enstitü Yönetim Kurulu Üyesi, TED University, Graduate School, 2022 - 2023

Director of The Institution, TED University, Graduate School, 2022 - 2023

Head of Department, TED University, Graduate School, Mechanical Engineering, 2020 - 2023

Head of Department, TED University, Faculty Of Engineering, Department Of Mechanical Engineering, 2019 - 2023

Fakülte Yönetim Kurulu Üyesi, TOBB University of Economics and Technology, Faculty Of Engineering, 2017 - 2019

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, TOBB University of Economics and Technology, Energy Research Center, 2016 - 2019

Member of the Commission, TOBB University of Economics and Technology, Rectorate, 2013 - 2019

Research Institute Director, TOBB University of Economics and Technology, Rectorate, 2011 - 2019

Rektörlük Stratejik Plan Komisyonu Üyesi, TOBB University of Economics and Technology, Rectorate, 2010 - 2019
Fakülte Kurulu Üyesi, TOBB University of Economics and Technology, Faculty Of Engineering, 2016 - 2017
Deputy Head of Department, TOBB University of Economics and Technology, Faculty Of Engineering, Department Of Mechanical Engineering, 2008 - 2013

Courses

Thermodynamics, Undergraduate
Summer Practice I, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Experimental Engineering, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Advanced Fluid Mechanics, Postgraduate, 2021 - 2022
Master's Thesis I, Postgraduate, 2022 - 2023, 2021 - 2022
Applied Thermal Systems, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Master's Thesis II, Postgraduate, 2022 - 2023
Summer Practice II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Pre-thesis Seminar, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Fluid Mechanics, Undergraduate, 2020 - 2021
Senior Project, Undergraduate, 2020 - 2021
Physics II, Undergraduate, 2019 - 2020

Advising Theses

Aradağ Çelebioğlu S., Çelebioğlu K., -, Postgraduate, G.Şahin(Student), Continues
Aradağ Çelebioğlu S., -, Postgraduate, Ö.Beril(Student), Continues
Başkaya Ş., Aradağ Çelebioğlu S., -, Doctorate, O.Ulucak(Student), Continues
Görgülüarslan R. M., Aradağ Çelebioğlu S., -, Doctorate, G.Demir(Student), Continues
Aradağ Çelebioğlu S., Çelebioğlu K., -, Postgraduate, A.Beril(Student), Continues
Aradağ Çelebioğlu S., Taşcioğlu Y., -, Postgraduate, İ.Doğan(Student), Continues
Aylı E., Aradağ Çelebioğlu S., 1 765615 KAAAN GÜZEY 2022 Numerical and experimental investigation of wavy leading edge modifications on NACA0012 airfoil performance NACA0012 profili için dalgalı ön kenar modifikasyonlarının sayısal ve deneysel olarak incelenmesi, Postgraduate, K.Güzey(Student), 2022
Bayer Ö., Aradağ Çelebioğlu S., Investigation of Marangoni-induced flows in vertical microchannels Dikey mikrokanaallarda Marangoni-etkili akışların araştırılması, Postgraduate, A.UĞUR(Student), 2022

Jury Memberships

December, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Orta Doğu Teknik Üniversitesi, November, 2022
Post Graduate, Post Graduate, Çankaya Üniversitesi, November, 2022
Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Orta Doğu Teknik Üniversitesi, September, 2022
Award, ODTÜ Mustafa Parlar, TED Üniversitesi, September, 2022
Doctorate, Doctorate, Orta Doğu Teknik Üniversitesi, September, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, August, 2022
Associate Professor Exam, Associate Professor Exam, TED University, May, 2022
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, February, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi,
January, 2022
January, 2021
December, 2020
October, 2020
September, 2020
June, 2020
February, 2020
February, 2020
January, 2020
December, 2019
December, 2019
December, 2019
November, 2019
October, 2019
July, 2019
March, 2019
January, 2019
January, 2018
January, 2018
December, 2017
November, 2017
January, 2016
January, 2015
January, 2014
June, 2013
January, 2013
January, 2013
June, 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of aerodynamic and aeroacoustic behavior of bio-inspired airfoils with numerical and experimental methods**
Güzey K., Ayli U. E., Kocak E., Aradağ Çelebioğlu S.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.238, no.5, pp.1265-1279, 2024 (SCI-Expanded)
- II. **Exploring the potential of artificial intelligence tools in enhancing the performance of an inline pipe turbine**
Celebioglu K., Ayli E., Cetinturk H., Taşcıoğlu Y., Aradağ Çelebioğlu S.
Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2024 (SCI-Expanded)
- III. **Design of the ONERA M6 wing by shape optimization under uncertainty ONERA M6 kanadının belirsizlik altında şekil optimizasyonu ile tasarımı**
Demir G., Görgülüarslan R. M., Aradağ Çelebioğlu S.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.39, no.2, pp.771-784, 2024 (SCI-Expanded)
- IV. **Robust shape optimization under model uncertainty of an aircraft wing using proper orthogonal decomposition and inductive design exploration method**
Demir G., Gorguluarslan R. M., Aradağ Çelebioğlu S.

Structural and Multidisciplinary Optimization, vol.66, no.4, 2023 (SCI-Expanded)

- V. **Critical decision making for rehabilitation of hydroelectric power plants**
Celebioglu K., Ayli E., Ulucak O., Aradağ Çelebioğlu S., Westerman J.
Energy Sources, Part A: Recovery, Utilization and Environmental Effects, vol.45, no.4, pp.10073-10106, 2023 (SCI-Expanded)
- VI. **Investigation of double-layered wavy microchannel heatsinks utilizing porous ribs with artificial neural networks**
Bayer Ö., Baghaei Oskouei S., Aradağ Çelebioğlu S.
International Communications in Heat and Mass Transfer, vol.134, 2022 (SCI-Expanded)
- VII. **CFD based design of a 4.3MW Francis turbine for improved performance at design and off-design conditions**
Aradağ Çelebioğlu S., Akin H., Celebioglu K.
Journal of Mechanical Science and Technology, vol.31, no.10, pp.5041-5049, 2017 (SCI-Expanded)
- VIII. **CFD-driven surrogate-based multi-objective shape optimization of an elbow type draft tube**
Demirel G., Acar E., Celebioglu K., Aradağ Çelebioğlu S.
International Journal of Hydrogen Energy, vol.42, no.28, pp.17601-17610, 2017 (SCI-Expanded)
- IX. **Numerical research of cavitation on Francis turbine runners**
Celebioglu K., Altintas B., Aradağ Çelebioğlu S., Taşcıoğlu Y.
International Journal of Hydrogen Energy, vol.42, no.28, pp.17771-17781, 2017 (SCI-Expanded)
- X. **Simulation-based design and optimization of Francis turbine runners by using multiple types of metamodels**
Ayancik F., Acar E., Celebioglu K., Aradağ Çelebioğlu S.
Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, vol.231, no.8, pp.1427-1444, 2017 (SCI-Expanded)
- XI. **Model Testing of Francis-Type Hydraulic Turbines**
Kavurmaci B., Celebioglu K., Aradağ Çelebioğlu S., Taşcıoğlu Y.
Measurement and Control (United Kingdom), vol.50, no.3, pp.70-73, 2017 (SCI-Expanded)
- XII. **Effects of active and passive control techniques on Mach 1.5 cavity flow dynamics**
Aradağ Çelebioğlu S., Gelisli K. A., Yaldir E. C.
International Journal of Aerospace Engineering, vol.2017, 2017 (SCI-Expanded)
- XIII. **Comparative gasketed plate heat exchanger performance prediction with computations, experiments, correlations and artificial neural network estimations**
Aradağ Çelebioğlu S., Genc Y., Turk C.
Engineering Applications of Computational Fluid Mechanics, vol.11, no.1, pp.467-482, 2017 (SCI-Expanded)
- XIV. **Experimental analysis of a mixed-plate gasketed plate heat exchanger and artificial neural network estimations of the performance as an alternative to classical correlations**
Turk C., Aradağ Çelebioğlu S., Kakac S.
International Journal of Thermal Sciences, vol.109, pp.263-269, 2016 (SCI-Expanded)
- XV. **Experimental investigation and CFD analysis of rectangular profile FINS in a square channel for forced convection regimes**
Ayli E., BAYER Ö., Aradağ Çelebioğlu S.
International Journal of Thermal Sciences, vol.109, pp.279-290, 2016 (SCI-Expanded)
- XVI. **Determination and generalization of the effects of design parameters on Francis turbine runner performance**
Ayli E., Celebioglu K., Aradağ Çelebioğlu S.
Engineering Applications of Computational Fluid Mechanics, vol.10, no.1, pp.545-564, 2016 (SCI-Expanded)
- XVII. **Aerodynamic Analysis of a vertically landing lifting body**
Aradağ Çelebioğlu S., Seidel J., Cummings R. M., Cook L.
ISI BILIMI VE TEKNIGI DERGISI/ JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.35, no.1, pp.35-42, 2015 (SCI-Expanded)
- XVIII. **Experimental investigation and performance analysis of gasketed plate heat exchangers**

Akturk F., Sezer-Uzol N., Aradağ Çelebioğlu S., Kakac S.

ISI BILIMI VE TEKNIGI DERGISI/ JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, vol.35, no.1, pp.43-52, 2015 (SCI-Expanded)

- XIX. **Artificial Neural Network based prediction of time-dependent behavior for lid-driven cavity flows**
Paksoy A., Aradağ Çelebioğlu S.
Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, vol.35, no.2, pp.1-18, 2015 (SCI-Expanded)
- XX. **Experimental comparison of performances of three different plates for gasketed plate heat exchangers**
Gulenoglu C., Akturk F., Aradağ Çelebioğlu S., SEZER UZOL N., Kakac S.
International Journal of Thermal Sciences, vol.75, pp.249-256, 2014 (SCI-Expanded)
- XXI. **Numerical laser energy deposition on supersonic cavity flow and sensor placement strategies to control the flow**
Yilmaz I., Aradağ Çelebioğlu S.
The Scientific World Journal, vol.2013, 2013 (SCI-Expanded)
- XXII. **Investigation of the effects of length to depth ratio on open supersonic cavities using CFD and proper orthogonal decomposition**
Yilmaz I., Ayli E., Aradağ Çelebioğlu S.
The Scientific World Journal, vol.2013, 2013 (SCI-Expanded)
- XXIII. **CFD simulations and reduced order modeling of a refrigerator compartment including radiation effects**
BAYER Ö., Oskay R., Paksoy A., Aradağ Çelebioğlu S.
Energy Conversion and Management, vol.69, pp.68-76, 2013 (SCI-Expanded)
- XXIV. **Effects of air blowing on turbulent flow over a circular cylinder**
Apacoglu B., Paksoy A., Aradağ Çelebioğlu S.
Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, vol.32, no.2, pp.107-119, 2012 (SCI-Expanded)
- XXV. **CFD analysis of cooling of electronic equipment as an undergraduate design project**
Aradağ Çelebioğlu S., Olgun U., Aktürk F., Başibüyük B.
Computer Applications in Engineering Education, vol.20, no.1, pp.103-113, 2012 (SCI-Expanded)
- XXVI. **Nonlinear estimation of transient flow field low dimensional states using artificial neural nets**
Cohen K., Siegel S., Seidel J., Aradağ Çelebioğlu S., McLaughlin T.
Expert Systems with Applications, vol.39, no.1, pp.1264-1272, 2012 (SCI-Expanded)
- XXVII. **Filtered POD-based low-dimensional modeling of the 3D turbulent flow behind a circular cylinder**
Aradağ Çelebioğlu S., Siegel S., Seidel J., Cohen K., McLaughlin T.
International Journal for Numerical Methods in Fluids, vol.66, no.1, pp.1-16, 2011 (SCI-Expanded)
- XXVIII. **Hybrid ventilation system simulation for several cities in Turkey**
Aradağ Çelebioğlu S., BAYER Ö., Karatas C., Poyraz U., Kalkan O., Haciahmetoglu F., Efe Y., Kahvecioglu M., Goncu A.
International Journal of Ventilation, vol.9, no.4, pp.351-357, 2011 (SCI-Expanded)
- XXIX. **CFD analysis and reduced order modeling of uncontrolled and controlled laminar flow over a circular cylinder**
Apacoglu B., Paksoy A., Aradağ Çelebioğlu S.
Engineering Applications of Computational Fluid Mechanics, vol.5, no.1, pp.67-82, 2011 (SCI-Expanded)
- XXX. **Integration of computations and experiments for flow control research with undergraduate students**
Aradağ Çelebioğlu S., Cohen K., Seaver C. A., McLaughlin T.
Computer Applications in Engineering Education, vol.18, no.4, pp.727-735, 2010 (SCI-Expanded)
- XXXI. **Two and Three Dimensional Simulations of Supersonic Cavity Configurations**
Aradağ Çelebioğlu S., Kim H. J., D. Knight D.
ENGINEERING APPLICATIONS OF COMPUTATIONAL FLUID MECHANICS, vol.4, no.4, pp.612-621, 2010 (SCI-Expanded)
- XXXII. **Unsteady turbulent vortex structure downstream of a three dimensional cylinder**

Aradağ Çelebioğlu S.

Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, vol.29, no.1, pp.91-98, 2009 (SCI-Expanded)

XXXIII. The effects of laser energy deposition on supersonic cavity flow

Aradağ Çelebioğlu S., Yan H., Knight D.

Isi Bilimi Ve Teknigi Dergisi/ Journal of Thermal Science and Technology, vol.29, no.2, pp.67-73, 2009 (SCI-Expanded)

XXXIV. Quiet-flow ludwig tube for hypersonic transition research

Juliano T. J., Schneider S. P., Aradağ Çelebioğlu S., Knight D.

AIAA Journal, vol.46, no.7, pp.1757-1763, 2008 (SCI-Expanded)

XXXV. Bleed lip geometry effects on the flow in a hypersonic wind tunnel

Aradağ Çelebioğlu S., Knight D. D., Schneider S. P.

AIAA Journal, vol.44, no.9, pp.2133-2136, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **Experimental Investigation of Thermal and Hydraulic Performance of a Plate Heat Exchanger Using Nanofluids**
Kayabaşı U., Kakaç S., Aradağ Çelebioğlu S., Pramuanjaroenkij A.
Journal of Engineering Physics and Thermophysics, vol.92, no.3, pp.783-796, 2019 (ESCI)
- II. **Rehabilitation of Francis Turbines of Power Plants with Computational Methods**
Celebioğlu K., Aradağ Çelebioğlu S., Altıntaş B., Ayli E.
Hittite Journal of Science and Engineering, vol.5, no.1, pp.37-48, 2018
- III. **Experimental Investigation of Thermal and Hydraulic Performances of Gasketed Plate Heat Exchangers**
Aradağ Çelebioğlu S., Kakac S., Gulenoglu C.
Mühendis ve Makina (Engineer And Machinery), 2013
- IV. **Experimental Investigation of Cooling of Electronic Equipment**
Ayli E., Turk C., Aradağ Çelebioğlu S.
International Journal of Materials, Mechanics and Manufacturing, pp.153-157, 2013
- V. **Hydroturbine Runner Design and Manufacturing**
Ayancık F., Aradağ U., Ozkaya E., Celebioğlu K., Unver O., Aradağ Çelebioğlu S.
International Journal of Materials, Mechanics and Manufacturing, pp.162-165, 2013
- VI. **An Assessment of the Effects of Laser Energy Deposition for Cavity Flows**
Yilmaz I., Aradağ Çelebioğlu S.
International Journal of Materials, Mechanics and Manufacturing, pp.158-161, 2013
- VII. **A Review of Control Methods for Cavity Flows and Feasibility of Laser Energy Deposition as an Actuator**
Yilmaz I., Ayli E., Aradağ Çelebioğlu S.
INTERNATIONAL JOURNAL OF FLOW CONTROL, vol.4, no.1-2, pp.29-46, 2012
- VIII. **Hybrid Ventilation System Simulation for Several Cities in Turkey**
Aradağ Çelebioğlu S., Bayer O., Karatas C., Poyraz U., Kalkan O., Hacıahmetoğlu F., Efe Y., Goncu A., Kahvecioğlu M.
The International Journal of Ventilation, vol.9, no.4, 2011

Books & Book Chapters

I. Heat Exchangers

Yazicioğlu A., Aradağ Çelebioğlu S., Ayli E., Gülben G., Kakaç S.

in: Comprehensive Energy Systems, , Editor, Elsevier, pp.40-69, 2018

- II. **Utilization of numerical methods and experiments for the design and tests of gasketed plate heat exchangers**
Aradağ Çelebioğlu S., Kakac S., Özkaya E.
in: Advances in Numerical Heat Transfer: Numerical Simulation of Heat Exchangers, , Editor, CRC Press, pp.99-129, 2017
- III. **Modeling of the Wake Behind Bluff Bodies for Flow Control at Laminar and Turbulent Reynolds Numbers Using ANN's**
Aradağ Çelebioğlu S., Paksoy A.
in: Transition at Low Reynolds Numbers, , Editor, Intech Publishing, 2012
- IV. **A Methodology Based on Experimental Investigation of a DBD-Plasma Actuated Cylinder Wake for Flow Control**
Cohen K., Aradağ Çelebioğlu S., Seidel J., Siegel S., McLaughlin T.
in: Transition at Low Reynolds Numbers, , Editor, Intech Publishing, 2012
- V. **CFD for High Speed Flows in Engineering**
Aradağ Çelebioğlu S.
VDM Verlag Dr. Mueller, 2008

Refereed Congress / Symposium Publications in Proceedings

- I. **A Multi-Objective Robust Aircraft Wing Shape Optimization Approach**
Demir G., Gorguluarslan R. M., Aradağ Çelebioğlu S.
AIAA Aviation and Aeronautics Forum and Exposition, AIAA AVIATION Forum 2021, Virtual, Online, 2 - 06 August 2021
- II. **Design, Installation And Tests Of Test Setup For A Plate And Fin Type Heat Exchanger Used As A Helicopter Engine Oil Cooler**
Özer O., Uslu S., Aradağ Çelebioğlu S.
ISPEC 9th International Conference On Engineering & Natural Sciences, Ankara, Turkey, 13 - 15 November 2020
- III. **NUMERICAL STUDY ON INDIRECT ULTRASONIC PROCESSING OF A TRANSPARENT FLUID**
Çöllü Ö., Özer M. B., Durlu N., Aradağ Çelebioğlu S., Taşcıoğlu Y.
20th International Metallurgy and Materials Congress, İstanbul, Turkey, 10 - 12 June 2021
- IV. **Investigation of a Francis Turbine Performance Using CFD and Site Efficiency Measurements**
Ünal Y. T., Büyüksolak F., Altıntaş B., Çelebioğlu K., Ayli E., Ulucak O., Aradağ Çelebioğlu S.
8th European Conference on Renewable Energy Systems, İstanbul, Turkey, 24 - 25 August 2020
- V. **Design and test of energy efficient hydroturbines**
celebioglu K., Aradağ Çelebioğlu S., Büyüksolak F., Altıntaş B., Tascioglu Y.
15th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Amsterdam, Netherlands, 20 - 22 July 2020
- VI. **Passive control of acoustic resonance in subsonic cavities using Ffowcs-Williams-Hawkings equations**
kocak e., ayli e., Aradağ Çelebioğlu S.
15th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Amsterdam, Netherlands, 20 - 22 July 2020
- VII. **Modeling piezoelectric actuators in ultrasonic excitation molds**
Şahin M. A., Çöllü Ö., Taşcıoğlu Y., Durlu N., Aradağ Çelebioğlu S., Özer M. B.
- VIII. **Active and passive control of supersonic cavity flow**
Gelişli K. A., Aradağ Çelebioğlu S., Taşcıoğlu Y., Özer M. B.
- IX. **Computational fluid dynamics and proper orthogonal decomposition based control of flow over supersonic cavities**
Gelisli K. A., Aradağ Çelebioğlu S., Taşcıoğlu Y., ÖZER M. B.
25th AIAA/CEAS Aeroacoustics Conference, 2019, Delft, Netherlands, 20 - 23 May 2019

- X. **Experimental investigation of thermal and hydraulic performance of a plate heat exchanger using nanofluids**
Kakac S., Kayabasi U., Aradağ Çelebioğlu S.
X. Minsk International Seminar: Heat Pipes, Heat Pumps, Refrigerators, Power Sources, 01 September 2018
- XI. **Bir muharip uçağın burun yukarı manevrasında oluşan kararlılık türlevlerinin kestirimi**
Taskonak A., Aradağ Çelebioğlu S., Kaynak U.
VII. Ulusal Havacılık ve Uzay Konferansı (UHUK)
- XII. **Experimental investigation of thermal and hydraulic performance of a plate heat exchanger using Al2O3 nanofluid**
Kayabasi U., Aradağ Çelebioğlu S., Kakac S.
6th European Conference on Renewable Energy Systems (ECRES 2018)
- XIII. **Performance tests of Francis type hydraulic turbines**
Besni F., Buyuksolak F., Collu O., Celebioglu K., Tascioglu Y., Aradağ Çelebioğlu S.
6th European Conference on Renewable Energy Systems (ECRES 2018)
- XIV. **CFD based design and prediction of performance for hydraulic turbines**
Celebioglu K., Altintas B., Tascioglu Y., Aradağ Çelebioğlu S.
16th International Conference on Clean Energy (ICCE 2018)
- XV. **Benzer özellikli çift ve tek kompresörlü buzdolaplarının enerji indeksine göre deneysel karakterizasyonu**
Akdemir A., Aradağ Çelebioğlu S., Bayer O.
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu (AES 2018)
- XVI. **Plate Heat Exchangers**
Aradağ Çelebioğlu S., Kakac S.
- XVII. **Parametric optimization of a Francis turbine runner**
Elikalfa A., Celebioglu K., Acar E., Aradağ Çelebioğlu S.
ECRES 5th European Conference on Renewable Energy Systems
- XVIII. **Shaft line design of a Francis turbine-Generator system for the rehabilitation of an existing hydroelectric power plant**
Yuksel O., Celebioglu K., Aradağ Çelebioğlu S., Tascioglu Y., Pehlivan A., Sahin C.
, 8th International Conference on Mechanical and Aerospace Engineering
- XIX. **Shaft line design of a Francis turbine-generator system for the rehabilitation of an existing hydroelectric power plant**
Yüksel Ö., Çelebioğlu K., Aradağ Çelebioğlu S., Taşcıoğlu Y., Pehlivan A. S., Şahin C.
- XX. **Passive control of supersonic cavity flow oscillations**
Aradağ Çelebioğlu S., Gelisli A.
8th International Conference on Mechanical and Aerospace Engineering
- XXI. **Design optimization of a new hybrid MR brake**
Kalin K., Tascioglu Y., Aradağ Çelebioğlu S.
International Conference on Mechatronics Systems and Control Engineering
- XXII. **Investigation of cavitation properties of a Francis turbine runner**
Altintas B., Celebioglu K., Aradağ Çelebioğlu S.
4th European Conference on Renewable Energy Systems
- XXIII. **Conceptual design of a hydroelectric power plant for a rehabilitation project**
Sepetci G., Cetinturk H., Ozkan S. Y., Ozhan Y., Karadeniz C., Celebioglu K., Tascioglu Y., Aradağ Çelebioğlu S.
HEFAT 2016
- XXIV. **CFD based hill chart construction and similarity study of prototype and model Francis turbines for experimental tests**
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TOBB ETU Hydro, Tobb University Of Economics And Technology, Engineering, Turkey, 2021 - Continues
AFS, Tobb University Of Economics And Technology, TOBB ETU Hydro Energy Research Center, Turkey, 2014 - 2015
MD2 Mühendislik, Tobb University Of Economics And Technology, TOBB ETU Hydro Energy Research Center, Turkey, 2012 - 2014

Tasks In Event Organizations

Aradağ Çelebioğlu S., Uluslararası katımlı 24. ısı bilimi ve tekniği kongresi, Scientific Congress, Ankara, Turkey, Eylül 2023
Aradağ Çelebioğlu S., 5th International Conference on Mechatronics and Control Systems, Scientific Congress, China, Mart 2022
Aradağ Çelebioğlu S., The 5th International Conference on Mechatronics Systems and Control Engineering (ICMSCE 2022), Scientific Congress, Turkey, Mart 2022
ARADAĞ ÇELEBIOĞLU S., 23. Isı Bilimi ve Tekniği Kongresi, Eylül 2021
ARADAĞ ÇELEBIOĞLU S., 5th Anatolian Energy Symposium, Mart 2021
ARADAĞ ÇELEBIOĞLU S., 4th International Conference on Mechatronics Systems and Control Engineering, Rome, Italy, Mart 2021
ARADAĞ ÇELEBIOĞLU S., 3rd International Conference on Mechatronics Systems and Control Engineering, Şubat 2019
ARADAĞ ÇELEBIOĞLU S., TÜBA – TOBB ETÜ 3. Enerji Konferansı 2018, Ekim 2018
ARADAĞ ÇELEBIOĞLU S., Anadolu Energy Symposium, Nisan 2018
ARADAĞ ÇELEBIOĞLU S., 2nd International Conference on Mechatronics Systems and Control Engineering, Şubat 2018
ARADAĞ ÇELEBIOĞLU S., ASME Engineering Systems Design and Analysis 2010, Temmuz 2010
ARADAĞ ÇELEBIOĞLU S., 48th AIAA Aerospace Sciences Meeting 2010, Ocak 2010
ARADAĞ ÇELEBIOĞLU S., NATO Advanced Study Institute on Microfluidics based Microsystems Fundamentals and Applications, İzmir, Turkey, Eylül 2009
ARADAĞ ÇELEBIOĞLU S., 47th AIAA Aerospace Sciences Meeting 2009, Ocak 2009
ARADAĞ ÇELEBIOĞLU S., Integrating CFD and Experiments in Aerodynamics Conference, Haziran 2007

Scientific Research / Working Group Memberships

302 dersi iki şube olarak verildi., 2021 - 2021
Collaboration with TOBB ETU and TAI, joint MS student, 2021 - 2021
Research and teaching collaboration with TOBB ETU Hydro, joint MS student, 2021 - 2021
Joint MS student with Çankaya university, 2021 - 2021
Joint MS student with METU, 2021 - 2021

Awards

Aradağ Çelebioğlu S., Associate Fellow, American Institute Of Aeronautics And Astronautics (Aiaa), November 2022
ARADAĞ ÇELEBIOĞLU S., Best paper, 3rd International Conference on Mechatronics and Control Engineering, February 2019
ARADAĞ ÇELEBIOĞLU S., Best paper, X. Minsk International Seminar: Heat Pipes, Heat Pumps, Refrigerators, Power Sources, September 2018
ARADAĞ ÇELEBIOĞLU S., Who is Who in the World, Marquis, January 2011
ARADAĞ ÇELEBIOĞLU S., TÜBA GEBİP, Turkish Academy of Sciences, June 2010
ARADAĞ ÇELEBIOĞLU S., Fellowship, Rutgers University, September 2005

