

# Prof. Selin Aradağ Çelebioğlu

## Personal Information

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## International Researcher IDs

ScholarID: F4tRs9oAAAAJ

ORCID: 0000-0002-2034-0008

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., Taşçıoğlu Y., -, Postgraduate, İ.Doğan(Student), Continues  
Aylı E., Aradağ Çelebioğlu S., 1 765615 KAAN 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 mikrokanallarda 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  
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December, 2019  
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March, 2019  
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December, 2017  
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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., Aylı 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., Aylı E., Cetinturk H., Taşçıoğlu 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., Taşcioğlu 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**  
Ayancık 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**  
Kavurmacı B., Celebioglu K., Aradağ Çelebioğlu S., Taşcioğlu 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 net 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 DERGİSİ/ 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 Çelebioğl S., Kakac S.  
ISI BILIMI VE TEKNIGI DERGİSİ/ 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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., Aylı E., Aradağ Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl S., BAYER Ö., Karatas C., Poyraz U., Kalkan O., Hacihametoglu 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 ludwieg tube for hypersonic transition research**  
Juliano T. J., Schneider S. P., Aradağ Çelebioğl 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 Çelebioğl 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 Çelebioğl 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**  
Celebioglu K., Aradağ Çelebioğl S., Altintas 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 Çelebioğl 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 Çelebioğl S.  
International Journal of Materials, Mechanics and Manufacturing, pp.153-157, 2013
- V. **Hydroturbine Runner Design and Manufacturing**  
Ayancık F., Aradag U., Ozkaya E., Celebioglu K., Unver O., Aradağ Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl S., Bayer O., Karatas C., Poyraz U., Kalkan O., Haciahmetoğlu F., Efe Y., Goncu A., Kahvecioglu M.  
The International Journal of Ventilation, vol.9, no.4, 2011

## Books & Book Chapters

- I. **Heat Exchangers**  
Yazıcıoğlu A., Aradağ Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl S., Taşcioğlu 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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., Taşcioğlu Y., Durlu N., Aradağ Çelebioğl S., Özer M. B.
- VIII. Active and passive control of supersonic cavity flow**  
Gelişli K. A., Aradağ Çelebioğl S., Taşcioğlu Y., Özer M. B.
- IX. Computational fluid dynamics and proper orthogonal decomposition based control of flow over supersonic cavities**  
Gelisli K. A., Aradağ Çelebioğl S., Taşcioğlu 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 Çelebioğl S.  
X. Minsk International Seminar: Heat Pipes, Heat Pumps, Refrigerators, Power Sources, 01 September 2018
- XI. **Bir muharip uçağın burun yukarı manevrasında oluşan kararlılık türevlerinin kestirimi**  
Taskonak A., Aradağ Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl 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 Çelebioğl S., Bayer O.  
4. Uluslararası Katılımlı Anadolu Enerji Sempozyumu (AES 2018)
- XVI. **Plate Heat Exchangers**  
Aradağ Çelebioğl S., Kakac S.
- XVII. **Parametric optimization of a Francis turbine runner**  
Elikalfa A., Celebioglu K., Acar E., Aradağ Çelebioğl 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**  
Yüksel O., Celebioglu K., Aradağ Çelebioğl 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., Çelebioglu K., Aradağ Çelebioğl S., Taşcioğlu Y., Pehlivan A. S., Şahin C.
- XX. **Passive control of supersonic cavity flow oscillations**  
Aradağ Çelebioğl S., Gelsli A.  
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- XXI. **Design optimization of a new hybrid MR brake**  
Kalin K., Tascioglu Y., Aradağ Çelebioğl S.  
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- XXII. **Investigation of cavitation properties of a Francis turbine runner**  
Altintas B., Celebioglu K., Aradağ Çelebioğl S.  
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- 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 Çelebioğl S.  
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- XXV. **An experimental facility to test the performances of gasketed plate heat exchangers**  
Kakac S., Aradağ Çelebioğl S.

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- XXVII. Design of a Test Cell for Model Hydraulic Turbines**  
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 Ayancık F., Demirel G., Celebioglu K., Acar E., Aradağ Çelebioğl S.
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 Mert B., Aytaç Z., Taşcioğlu Y., Çelebioglu K., Aradağ Çelebioğl S.
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 Ayli E., Kavurmacı B., Çetintürk H., Kaplan A., Çelebioglu K., Aradağ Çelebioğl S., Taşcioğlu Y.
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- XXXVI. Parametrical and theoretical design of a Francis turbine runner with the help of computational fluid dynamics**  
 Ayancık F., Celebioglu K., Aradağ Çelebioğl S.  
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- XLIX. Utilization of CFD Tools for the rehabilitation of an existing hydroelectric power plant**  
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- L. CFD Simulations of Chevron Type Plate Heat Exchangers and Validation with Experimental Data**  
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- LI. Experimental Investigation of Hydrothermal Characteristics and Flow Maldistribution for a Gasketed Plate Heat Exchanger**  
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- LIII. Effects of Duration of Laser Energy Deposition on Supersonic Cavities and Sensor Placement Strategies for Flow Control**  
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- LIV. A framework for a multiagent-based virtual enterprise with a microgrid energy market model**  
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- LV. Üç Farklı Chevron Tipi Contalı Plakalı Isı Değiştirgecinin Isıl ve Hidrolik Performanslarının Deneysel Olarak İncelenmesi**  
Gulenoglu C., Aradağ Çelebioğl S., Sezer-Uzol N., Kakac S.

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- LVI. **Deneysel Çalışmalar, Hesaplama Akışkanlar Dinamiği ve Yapay Sinir Ağları ile Plakalı Isı Değiştirgeci Tasarımı**  
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- LVII. **Reduced order modeling for supersonic cavity flows**  
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- LXV. **Design and Manufacturing of Flow Control Blades for Hydraulic Turbines**  
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- LXIX. **Hesaplama Akışkanlar Dinamiği, Düşük Boyutlu Modelleme ve Yapay Sinir Ağları ile Akış Kontrolü**  
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LXX. **İki Boyutlu Süpersonik Kavite Akışı Simülasyonu**  
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LXXI. **Farklı Sayı ve Boyutta Plakalara Sahip Plakalı Isı Değiştirgeçlerinin Deneysel Olarak İncelenmesi ve Bilgisayar Seçim Programı Oluşturulması**  
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LXXIII. **Prediction of Lid-Driven Cavity Flow Characteristics using an Artificial Neural Network based Methodology Combined with CFD and Proper Orthogonal Decomposition**  
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LXXIV. **A Combined Computational and Experimental Study for Performance Prediction of Gasketed Plate Heat Exchangers**  
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LXXV. **Development of New Correlations and a Computer Program for Chevron Type Gasketed Plate Heat Exchangers based on Experimental Analysis**  
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LXXXII. **Comparison of gasketed plate heat exchangers with double pipe heat exchangers**  
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- LXXXIV. **Silindir Üzerindeki Kontrolsüz ve Kontrollü Laminer Akışın HAD Analizi ve Düşük Boyutlu Modellenmesi**  
Apacoglu B., Paksoy A., Aradağ Çelebioğl S.  
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- LXXXV. **The Effects of Biofuels on Climate Change and Biofuels Policy of Turkey**  
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- LXXXVI. **Akış Yönlendiricilerin Elektronik Ekipmanları Soğutma Sistemleri Üzerindeki Etkisinin Hesaplamalı Akışkanlar Dinamiği ile Gözlemlenmesi**  
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- LXXXVII. **Contalı Plakalı Isı Değiştirgeci Tasarımı**  
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- LXXXVIII. **Integrating CFD and Experiments in Undergraduate Fluid Dynamics Research**  
Seaver C., Cohen K., Aradağ Çelebioğl S., McLaughlin T.
- LXXXIX. **Reduced order model based controller design for feedback-controlled cylinder wake**  
Cohen K., Siegel S., Seidel J., Aradağ Çelebioğl S., Mclaughlin T.  
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- XC. **Analysis of an axisymmetric bluff bodywake using Fourier transform and POD**  
Seidel J., Siegel S., Jeans T., Aradağ Çelebioğl S., Cohen K., McLaughlin T.  
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- XCI. **Low dimensional model development using double proper orthogonal decomposition and system identification**  
Siegel S., Cohen K., Seidel J., Aradağ Çelebioğl S., McLaughlin T.  
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- XCII. **Open loop transient forcing of an axisymmetric bluff body wake**  
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- XCV. **Simulation of a feedback-controlled cylinder wake using double proper orthogonal decomposition**  
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Siegel S., Seidel J., Cohen K., Aradağ Çelebioğl S., McLaughlin T.
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Naiman H., Knight D., Aradağ Çelebioğl S., Juliano T., Schneider S.  
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- XCIX. Low dimensional POD based estimation of a 3D turbulent separated flow**  
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- C. Reduced order modeling of a turbulent three dimensional cylinder wake**  
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- CI. Computational design of the boeing/AFOSR mach 6 wind tunnel**  
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- CII. Two and three dimensional simulations of supersonic cavity flow**  
 Hyung J. K., Aradağ Çelebioğl S., Knight D. D.  
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 pp.399-416
- CIII. Low Dimensional Modeling of Transient Flow Fields Using Double Proper Orthogonal Decomposition**  
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## Supported Projects

- Aradağ Çelebioğlu (Management Committee) S., Doujak E., TÜBİTAK - AB COST Project, Pan-European Network for Sustainable Hydropower (PEN@Hydropower), 2022 - 2026
- Şahin S. M. A., Taşcioğlu Y., Akkaya S. M., Çöllü S. Ö., Özer M. B., Durlu N., ARADAĞ ÇELEBIOĞLU S., TUBITAK Project, "Yüksek Performanslı alüminyum ve magnezyum alaşımlarının özelliklerinin ultrasonik Döküm İşlemleri ile Geliştirilmesi", 2017 - 2021
- Aradağ Çelebioğlu S., Taşcioğlu Y., TUBITAK Project, "MİLHES - Hidroelektrik santral bileşenlerinin yerli olarak tasarıımı ve üretimi", 2015 - 2021
- Aradağ Çelebioğlu S., Taşcioğlu Y., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, "Su Türbini Tasarım ve Testleri Alt yapısı", 2011 - 2016
- Aradağ Çelebioğlu S., TUBITAK Project, "Deneysel çalışmalar, hesaplamalı akışkanlar dinamiği ve yapay sinir ağları ile plakalı ısı değiştirgeci tasarım", 2012 - 2014
- ARADAĞ ÇELEBIOĞLU S., TUBITAK Project, "Sesüstü Kavitelerde Lazer Enerjisi Yardımıyla Akış Modellemesi ve Kontrolü", 2011 - 2013
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- ARADAĞ ÇELEBIOĞLU S., Industrial Thesis Project, "Plakalı Isı Değiştiricilerinde Plakaya Bağımlı Isı Transferinin Deneysel ve Sayısal olarak incelenmesi", 2009 - 2011

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## Patent

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## Activities in Scientific Journals

ISI BİLİMI VE TEKNİĞİ DERGİSİ/ JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, First Editor, 2021 - Continues

## Memberships / Tasks in Scientific Organizations

İş Bilimi ve Tekniği Derneği, Member, 2021 - Continues

TUBITAK, Member, 2020 - Continues

Member, Member, 2008 - Continues

American Institute of Aeronautics and Astronautics (AIAA), Member, 2003 - Continues

Society of Women Engineers, Member, 2003 - Continues

TMMOB Makina Mühendisleri odası, 2000 - Continues

AIAA, Member, 2006 - 2010, United States Of America

## Scientific Refereeing

JOURNAL OF MECHANICAL SCIENCE AND TECHNOLOGY, March 2021

JOURNAL OF APPLIED FLUID MECHANICS, January 2020

INTERNATIONAL JOURNAL OF HEAT AND MASS TRANSFER, January 2020

JOURNAL OF THERMOPHYSICS AND HEAT TRANSFER, January 2020

PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS, PART F: JOURNAL OF RAIL AND RAPID TRANSIT, January 2020

EXPERIMENTAL HEAT TRANSFER, January 2020

PAMUKKALE UNIVERSITY JOURNAL OF ENGINEERING SCIENCES-PAMUKKALE UNIVERSITESI MUHENDISLIK BİLİMLERİ DERGİSİ, January 2020

ENVIRONMENTAL PROGRESS AND SUSTAINABLE ENERGY, January 2020

ASME Journal of Thermal Science and Engineering Applications, January 2019

ISI BİLİMI VE TEKNİĞİ DERGİSİ/ JOURNAL OF THERMAL SCIENCE AND TECHNOLOGY, January 2019

JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING, January 2019

ENERGY CONVERSION AND MANAGEMENT, January 2019

INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING, January 2019

GAZI UNIVERSITY JOURNAL OF SCIENCE, January 2019

INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, January 2019

## **Scientific Consultations**

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 katılımlı 24. ısı bilimi ve tekniki 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

ARADAĞ ÇELEBİOĞLU S., Fellowship, School of Engineering Fellowship, September 2002