

**Prof. Dr. SELIN ARADAG CELEBIOGLU**



Dean, TED University Faculty of Engineering

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**Address:** TED University, Ziya Gokalp cad no: 47-48, Kolej, Ankara, Turkey

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**AREAS OF EXPERTISE**

Fluid Mechanics, Aerodynamics, Computational Fluid Dynamics, Flow control, High speed flows, Hydroenergy, Heat exchangers

**EDUCATION**

**Ph.D., Mechanical and Aerospace Engineering** (February 2006), GPA: 4.00 / 4.00

Rutgers University, New Brunswick, NJ

Advisor: Prof. Doyle Knight

Dissertation: "A Critical Evaluation of Numerical Algorithms and Flow Physics in Complex Supersonic Flows"

**MS, Mechanical Engineering** (July 2002), GPA: 4.00 / 4.00

Middle East Technical University, Ankara, Turkey

Advisor: Prof. Cahit Eralp

Thesis: "Underground Transportation System Ventilation by Train Piston Effect"

**BS, Mechanical Engineering** (June 2000), GPA: 3.57 / 4.00, High honor student

Middle East Technical University, Ankara, Turkey

## CURRENT WORK

**Dean of Engineering**, March 2023-...

**Professor of Mechanical Engineering**, TED University 2019-...

**Executive Committee Member**, TEDU TECH AŞ, 2022-...

**PEN@Hydropower EU COST Action**, Management Committee Member, 2022-...

**Editor in Chief**, Journal of Thermal Science and Technology, 2021-...

**Advisory Board Member**, Turkish Scientific and Research Council (Tubitak) USETEG 2020-...

**Advisory Board Member**, Simularge Global, 2021-...

**Advisor**, TOBB ETU Hydro Turbine Design and Test Center, 2021-...

**Executive Committee Member**, Isı Bilimi ve Tekniği Derneği, 2021-...

## PREVIOUS EXPERIENCE

**TED University, Ankara, Turkey**

**Dean of the Graduate School**, 2022-2023

**Mechanical Engineering Department Head**, 2019-2023

**Mechanical Engineering Graduate Program Coordinator**, 2020-2023

**TOBB University of Economics and Technology, Department of Mechanical Engineering, Ankara, Turkey**

**Professor**, 2017-2019

**Associate Professor**, 2012-2017

**Founding Director**, TOBB ETU Hydro Energy Research Center (ETU Hidro Su Türbini Tasarım ve Test Merkezi), 2012-2019

**Assistant Professor, Vice Department Chair**, 2008-2012

### Other Administrative duties:

University Executive Board Member, 2023-...

University Senate Member, 2019-...

Faculty Executive Board Member, 2020-...

Faculty Board Member, 2019-...

Faculty Advisor, TOBB ETU MECH Society, 2018-2019

College of Engineering Executive Board Member (Elected Prof. representative), 2017-2019

Energy Research Center Executive Board Member, 2017-2019

College of Engineering Board Member (Elected Assoc. Prof. representative), 2016-2017

University Legislation Committee Member, 2016-2019  
PhD Qualification Examination Committee Member, 2016-2019  
Academic Quality and Research Committee Member, 2014-2015  
Institutional Strategy Committee Member, 2014  
Operations Committee Member, 2010-2011  
Graduate Admissions Committee member, 2008-2013

**Su-Ener Mühendislik, Ankara, Turkey**  
**Founding partner, 2009-2012**

**U.S. Air Force Academy, Colorado Springs, CO, USA**  
**Contracted Research Engineer, May 2006-April 2008**

**Selin Engineering Inc. Colorado Springs, CO, USA**  
**Founding partner, January 2007-April 2008**

**Rutgers University, Department of Mechanical and Aerospace Engineering, New Brunswick, NJ, USA**  
**Summer Session Instructor, June 2005 - August 2005 (Engineering Mechanics, Statics)**  
**Teaching and Research Assistant, September 2002- February 2006**

**Middle East Technical University, Department of Mechanical Engineering, Ankara, Turkey**  
**Teaching Assistant, September 2000 - July 2002**

**Kent-Koop (Union of Housing and Construction Cooperatives), Ankara, Turkey**  
**Intern, June 1999 - August 1999**

**Turkish Tractor Factory, Ankara, Turkey**  
**Intern, June 1998 – August 1998**

#### **Teaching:**

- Courses: Statics, Thermodynamics, Numerical Methods, Fluid Mechanics, Fluid Mechanics Laboratory, Thermal Systems Design, Senior Design Project, Advanced Thermal System Design (Graduate), Advanced Fluid Mechanics (Graduate), Experimental Engineering, Physics, Applied Thermal Systems
- Supervised 30+ graduate theses

#### **HONORS AND AWARDS**

- American Institute of Aeronautics and Astronautics, Associate Fellow, 2022.
- Best presentation award, 3rd International Conference on Mechatronics and Control Engineering, 2019.
- Best Paper Award, X. Minsk International Seminar: Heat Pipes, Heat Pumps, Refrigerators, Power Sources, 2018.
- Turkish Academy of Sciences (**TÜBA**) **GEBIP** Distinguished Young Scientist Award (2010)
- Who is Who in the World (2011)

- Mechanical and Aerospace Engineering Graduate Fellowship, Rutgers University (2005-2006)
- School of Engineering Fellowship, Rutgers University (2002–2003)
- Finished Middle East Technical University as a high honor student (June 2000)
- First place graduation honor, Valedictorian, Private Yukselis High School (January 1996)
- Yukselis Foundation merit scholarship for three years (1993-1996)
- First place graduation honor, Valedictorian, Private Yukselis Middle School (June 1993)

### PROFESSIONAL SOCIETIES

- Isı Bilimi ve Tekniği Derneği Executive Board Member (2021-...)
- American Institute of Aeronautics and Astronautics (AIAA), Associate Fellow  
AIAA Fluid Dynamics Technical Committee, Member (2006-2010)  
Computational Fluid Dynamics Subcommittee, Member (2006-2010)
- Society of Women Engineers (SWE), Member
- American Physical Society (APS), Junior Member
- Turkish Chamber of Engineers and Architects-Division of Mechanical Engineers (TMMOB), Member

### GRANTS

1. Secondary Proposer, (Continuing project) “CA21104 - Pan-European Network for Sustainable Hydropower (PEN@Hydropower)”, EU COST Action project, budget: 600,000 Euros, October 2022-October 2026.
2. Principal investigator (Continuing project) “ Design and Production of Electomechanical parts of Sariyar Hydroelectric Power Plant project consultancy, TOBB ETÜ funded TEDU TECH project, budget: 95,000 Euros, October 2021-October 2023.
3. Researcher, Improvement of the Properties of High Performance Aluminum and Magnesium Metal Alloys Using Ultrasonic Casting Processes, TÜBİTAK 1003, budget: 1,480,000 TL, July 2017-February 2021.
4. Principal investigator, **MILHES** (Domestic hydroelectric power plant design and construction) project, TUBITAK-KAMAG 113G109, budget: 8 million \$, February 2015-October 2019, Researcher: October 2019-February 2021 (Partners: TUBITAK-MAM, TEMSAN, Gimas, TOBB ETU)
5. Principal investigator, Active and Passive Control of Flow over Supersonic Cavities, Turkish Aerospace Industry (TAI), budget: 538,000 TL, July 2017-July 2019.

6. PI, TOBB ETU Design, Manufacturing and Tests of Hydraulic Turbines Infrastructure Project, Turkish Ministry Of Development, budget : 10 million \$, September 2011– March 2016.
7. Consultant, Design and manufacturing of a bathroom fan, Tubitak Teydeb project with AFS, budget: 200000 \$ September 2014-July 2015.
8. PI, Manufacturing of hydroturbine guide vanes, Temsan, budget: 15000 \$, January-April 2015.
9. PI, Design of Plate Heat Exchangers with Experimental studies, Computational Fluid Dynamics and Artificial Neural Networks, TUBITAK, project number: 112M173, budget: 60000 \$ , November 2012- November 2014.
10. Consultant, Low Water Consumption Cooling Tower, TUBITAK Teydeb project with MD2 Engineering, budget: 200000 \$, September 2012 – February 2014.
11. PI, Control of Supersonic Cavity Flow with Laser Energy Deposition, TUBITAK-1001 project number: 110M539, budget : 50000 \$, May 2011-May 2013.
12. PI, Flow Modeling and Control, TÜBA-GEBIP Project, budget: 25000\$, June 2010-June 2013.
13. PI, Flow Control with Computational Fluid Dynamics, Low Dimensional Modeling and Artificial Neural Network, TBITAK-Career project number: 108M549, budget: 40,000 \$, May 2009-May 2011.
14. Researcher, Investigation of Plate Dependent Heat Transfer in Gasketed Plate HEX, Experimental and Numerical Analysis and Modelling for Plate Design, with TEKTES, Turkish Ministry of Science, Industry and Technology SANTEZ Project, budget: 60,000\$, September 2009- September 2011.
15. PI, Design and Simulation of Hybrid Ventilation Systems, Research and Development Fund of Turkish Society of HVAC and Sanitary Engineers, budget: 10,000\$, December 2008- December 2010.
16. PI, Active Control of Flow over Cavities Using Dielectric Barrier Discharge Plasma Actuators, Air Force Office of Scientific Research, 2007-2008.
17. Researcher, Computational Methods for Feedback Controllers for Aerodynamics Flow Applications, Air Force Office of Scientific Research Project no:FA9550-05-C-0048, 2006-2008.
18. Researcher, Aerodynamic Analysis and Control of Hot Eagle Vertically Landing Lifting Body, Universal Spacelines, 2006-2007.
19. Graduate student, Computational Design of Boeing/AFOSR Mach 6 Wind Tunnel, Air Force Office of Scientific Research Project no: FA9550-05-1-0014, 2004-2006.

20. Graduate student, Fundamental Physics and Practical Applications of Electromagnetic Local Flow Control in High-Speed Flows”, Air Force Office of Scientific Research Project no: FA9550-04-1-0177, 2004-2006.
21. Graduate student, Localized Flow Control in High Speed Flows Using Laser Energy Deposition, Air Force Office of Scientific Research Project no: F49620-01-0368, 2002-2004.

## **PUBLICATIONS**

**Citations:** 953 (August 2021) (H-index: 16, i10-index: 33)

### **A. SCI indexed journal articles:**

32. Demir G., Gorguluarslan R. M., **Aradag, S.**, Robust shape optimization under model uncertainty of an aircraft wing using proper orthogonal decomposition and inductive design exploration method, Structural and Multidisciplinary Optimization, vol. 66 (4), 93, 2023.
31. Bayer, O., Oskouei, S. B., and **Aradag, S.** (2022). Investigation of double-layered wavy microchannel heatsinks utilizing porous ribs with artificial neural networks. International Communications in Heat and Mass Transfer, vol.134, 2022.
30. Kayabasi, U., Kakac, S., **Aradag, S.**, Pramuanjaroenkij, A., Experimental Investigation of Thermal and Hydraulic Performance of a Plate Heat Exchanger Using Nanofluids, Journal of Engineering Physics and Thermophysics, Vol. 92 (3), 783-796, 2019.
29. **Aradag, S.**, Akin, H., Celebioglu, K., CFD based design of a 4.3 MW Francis turbine for improved performance at design and off-design conditions, Journal of Mechanical Science and Technology, Vol. 31 (10), pp. 5041-5049, 2017.
28. Kavurmaci, B., Celebioglu, K., **Aradag, S.**, Tascioglu, Y., Model testing of Francis type hydraulic turbines, Measurement and Control, Vol. 50 (3), pp.70-73, 2017.
27. **Aradag, S.** Gelisli, K. A., Yaldir, E. C., The Effects of Active and Passive Control Techniques on Mach 1.5 Cavity Flow Dynamics, International Journal of Aerospace Engineering, doi: 10.1155/2017/8253264, 2017.
26. **Aradag, S.**, Genc, Y., Turk, C., Comparative gasketed plate heat exchanger performance prediction with computations, experiments, correlations and Artificial Neural Network estimations, Engineering Applications of Computational Fluid Mechanics, Vol. 11 (1), pp.467-482, 2017.
25. Celebioglu, K., Altintas, B., **Aradag, S.**, Tascioglu, Y., Numerical investigation of cavitation on Francis turbine runners, International Journal of Hydrogen Energy, Vol. 42 (28), pp.17771-17781, 2017.
24. Demirel, G., Acar, E., Celebioglu, K., **Aradag, S.**, Cfd-driven surrogate-based multi-objective

shape optimization of an elbow type draft tube, *International Journal of Hydrogen Energy*, Vol. 42 (28), pp.17601-17610, 2017.

23. Ayancik, F., Acar, E., Celebioglu, K., **Aradag, S.**, "Simulation-based design and optimization of Francis turbine runners by using multiple types of metamodels", *Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science*, vol 231 (8), pp. 1427-1444, 2017.

22. Ayli, E., Bayer, O., **Aradag S.**, Experimental investigation and CFD analysis of rectangular profile FINS in a square channel for forced convection regimes", *International Journal of Thermal Sciences*, Vol. 109, pp. 279-290, 2016.

21. Turk, C., **Aradag, S.**, Kakac, S., "Experimental analysis of a mixed-plate gasketed plate heat exchanger and artificial neural net estimations of the performance as an alternative to classical correlations", *International Journal of Thermal Sciences*, Vol. 109, pp. 263-269, 2016.

20. Ayli, E., Celebioglu, K., **Aradag, S.**, "Determination and generalization of the effects of design parameters on Francis turbine runner performance", *Engineering Applications of Computational Fluid Mechanics*, Vol 10 (1), pp. 547-566, 2016.

19. Paksoy, A., **Aradag, S.**, "Artificial Neural Network Based Prediction of Time-Dependent Behavior of Lid-Driven Cavity Flows", *Isı Bilimi ve Tekniği-Journal of Thermal Science and Technology*, vol 35 (2), pp. 1-18, October 2015.

18. Akturk, F., Sezer-Uzol, N., **Aradag, S.**, Kakac, S., "Experimental investigation and performance analysis of gasketed plate heat exchangers", *Isı Bilimi ve Tekniği-Journal of Thermal Science and Technology*, vol 35 (1), pp. 43-52, April 2015.

17. **Aradag, S.**, Seidel, J., Cummings, R. M., Cook, L., "Aerodynamic Analysis of a vertically landing lifting body", *Isı Bilimi ve Tekniği-Journal of Thermal Science and Technology*, vol 35 (1), pp 35-42, April 2015.

16. Gulenoglu, C., Akturk, F., **Aradag, S.**, Sezer-Uzol, N., Kakac, S., "Experimental Comparison of Performances of Three Different Plates for Gasketed Plate Heat Exchangers", *International Journal of Thermal Sciences*, vol 75, pp 249-256, January 2014.

15. Yilmaz, I., **Aradag, S.**, "Numerical laser energy Deposition on Supersonic Cavity Flow and Sensor Placement Strategies to Control the Flow", *The Scientific World Journal*, Article ID 141342, 2013. (doi:[10.1155/2013/141342](https://doi.org/10.1155/2013/141342).)

14. Yilmaz, I., Ayli, E., **Aradag, S.**, "Investigation of the Effects of Length to Depth Ratio on Open Supersonic Cavities Using CFD and Proper Orthogonal Decomposition," *The Scientific World Journal*, vol. 2013, Article ID 810175, 2013. (doi:[10.1155/2013/810175](https://doi.org/10.1155/2013/810175).)

13. Bayer, O., Oskay, R., Paksoy, A., **Aradag, S.**, "CFD Simulations and Reduced Order Modeling of a Refrigerator Compartment Including Radiation Effects", *Energy Conversion and Management*, vol 69, pp 68-76, 2013.

12. Apacoglu, B., Paksoy, A., **Aradag, S.**, " Effects of Air Blowing on Turbulent Flow over a Circular Cylinder", *Isı Bilimi ve Tekniği-Journal of Thermal Science and Technology*, Vol. 32 (2), pp 107-119, October 2012.

11. **Aradag, S.**, Olgun, U., Akturk, F., Basibuyuk, B., "CFD Analysis of Cooling of Electronic Equipment as an Undergraduate Design Project", *Computer Applications in Engineering Education*, DOI: 10.1002/cae.20378, Vol. 20 (1), pp 103-113, March 2012.
10. Cohen, K., Siegel, S., Seidel, J., **Aradag, S.**, McLaughlin, T., "Nonlinear Estimation of Transient Flow Field Low Dimensional States Using Artificial Neural Nets", *Expert Systems with Applications*, Vol. 39 (1), pp 1254-1272, January 2012.
9. **Aradag, S.**, Siegel, S., Seidel, J., Cohen, K. and McLaughlin, T., " Filtered POD Based Low Dimensional Modeling of the 3D Turbulent Flow Behind a Circular Cylinder", *International Journal for Numerical Methods in Fluids*, Vol 66, pp 1-16 (DOI: 10.1002/fld.2238), May 2011.
8. Apacoglu, B., Paksoy, A., **Aradag, S.**, "CFD analysis and reduced order modeling of uncontrolled and controlled laminar flow over a circular cylinder", *Engineering Applications of Computational Fluid Mechanics*, Vol. 5, No. 1, pp 67-82, March 2011.
7. **Aradag, S.**, Bayer, O., Karatas, C., Poyraz, U., Kalkan, O., Haciahmetoglu, F., Efe, Y., Goncu, A., Kahvecioglu, M., "Hybrid Ventilation System Simulation for Several Cities in Turkey", *The International Journal of Ventilation*, Vol. 9, No.4, March 2011.
6. **Aradag, S.**, Kim, H., Knight, D., "Two and three dimensional simulations of supersonic cavity configurations", *Engineering Applications of Computational Fluid Mechanics*, Vol. 4, No.4, pp 612-621, December 2010.
5. **Aradag, S.**, Cohen, K, Seaver, C. And McLaughlin, T., "Integrating CFD and Experiments for Undergraduate Research", *Computer Applications in Engineering Education*, Vol. 18, No.4, pp 727-735, December 2010. (DOI:10.1002/cae.20278, 2009.)
4. **Aradag, S.**, Yan, H. Knight, D., "The Effects of Laser Energy Deposition on Supersonic Cavity Flow", *Journal of Thermal Science and Technology*, Vol. 29, No.2, pp 67-73, October 2009.
3. **Aradag, S.**, "Unsteady Vortex Structure Behind a Three Dimensional Turbulent Cylinder Wake", *Journal of Thermal Science and Technology*, Vol. 29 No.1, pp 91-98, April 2009.
2. Juliano, T., Schneider, S., **Aradag, S.**, Knight, D., "A Quiet Flow Ludwig Tube for Hypersonic Transition Research", *AIAA Journal*, Vol.46, No.7, pp. 1757-1763, July 2008.
1. **Aradag, S.**, Knight, D. and Schneider, S. "Bleed Lip Geometry Effects on the Flow in a Hypersonic Wind Tunnel", *AIAA Journal*, Vol. 44, No.9, pp. 2133-2136, September 2006.

### **B. Other Refereed Journal Articles:**

6. Celebioglu, K., **Aradag, S.**, Altintas, B., Ayli, E., Rehabilitation of Francis Turbines of Power Plants with Computational Methods, *Hittite Journal of Science and Engineering*, Vol. 5 (1), pp.37-48, 2018.
5. Kakac, S., **Aradag, S.**, Gulenoglu, C., "Experimental Investigation of Thermal and Hydraulic Performances of Gasketed Plate Heat Exchangers", *Mühendis ve Makina (Engineer and*



Machinery) vol 54, pp 44-68, September 2013.

4. Ayli, E., Turk, C., **Aradag, S.**, "Experimental Investigation of Cooling of Electronic Equipment", International Journal of Materials, Mechanics and Manufacturing, Vol. 1., No.2, pp. 153-157, 2013.

3. Yilmaz, I., **Aradag, S.**, "An Assessment of the Effects of Laser Energy Deposition for Cavity Flows", International Journal of Materials, Mechanics and Manufacturing, Vol. 1., No.2, pp. 158-161, 2013.

2. Ayancik, F., Aradag, U., Ozkaya, E., Celebioglu, K., Unver, O., **Aradag, S.**, "Hydroturbine Runner design and manufacturing", International Journal of Materials, Mechanics and Manufacturing, Vol. 1., No.2, pp. 162-165, 2013.

1. Yilmaz, I., Ayli, E., **Aradag, S.**, "A review of control methods for cavity flows and feasibility of laser energy deposition as an actuator", International Journal of Flow Control, Vol. 4 (1-2), pp. 29-46, January 2013.

### **C. International conference papers:**

97. Yildirim, G., Seydim, S., Guzey, K., Ayli, E., **Aradag, S.**, Celebioglu, K., Utilization of similarity on model-prototype transition of Francis turbines, 10th European Conference on Renewable Energy Systems, 2022.

96. Guzey, K., Ulucak, O., Ayli, E., Celebioglu, K., **Aradag, S.**, The performance enhancement of stay vanes in rehabilitation process, 10th European Conference on Renewable Energy Systems, 2022.

95. Demir, G., Gorgularslan, R., **Aradag, S.**, A Multi-objective robust aircraft wing shape optimization approach, AIAA Aviation 2021 Forum, <https://doi.org/10.2514/6.2021-3045>.vid, San Diego, CA, USA, 2021.

94. Ünal, Y. T., Büyüksolak, F., Altıntaş, B., Çelebioğlu, K., Ayli, E., Ulucak, O., **Aradag, S.**, Investigation of a Francis Turbine Performance Using CFD and Site Efficiency Measurements. In 8th European Conference on Renewable Energy Systems, 2020.

93. Çöllü, Ö., Özer, M. B., Durlu, N., **Aradag, S.**, Tascioglu, Y., Numerical study on indirect ultrasonic processing of a transparent fluid, 20th International Metallurgy and Materials Congress, 2020.

92. Özer, O., Uslu, S., **Aradag, S.**, Design, Installation And Tests Of Test Setup For A Plate And Fin Type Heat Exchanger Used As A Helicopter Engine Oil Cooler. In ISPEC 9th International Conference On Engineering & Natural Sciences, 2020.

91. Gelisli, A., **Aradag, S.**, Tascioglu, Y., Ozer, M. B., Computational Fluid Dynamics and Proper Orthogonal Decomposition based control of flow over supersonic cavities, 25th AIAA/CEAS Aeroacoustics Conference, 2019.

90. Sahin, M. A., Collu, O., Tascioglu, Y., Durlu, N., **Aradag, S.**, Ozer, M. B., “Modeling piezoelectric actuators in ultrasonic excitation modes”, 3rd International Conference on Mechatronics and Control Engineering, February 2019.
89. Gelisli, A., **Aradag, S.**, Tascioglu, Y., Ozer, M. B., “Active and passive control of supersonic cavity flow”, 3rd International Conference on Mechatronics and Control Engineering, February 2019.
88. Kakac, S., Kayabasi, U., **Aradag, S.**, “Experimental investigation of thermal and hydraulic performance of a plate heat exchanger using nanofluids, X. Minsk International Seminar: Heat Pipes, Heat Pumps, Refrigerators, Power Sources”, September 2018.
87. Kayabasi, U., **Aradag, S.**, Kakac, S., “Experimental investigation of thermal and hydraulic performance of a plate heat exchanger using Al<sub>2</sub>O<sub>3</sub>”, 6th European Conference on Renewable Energy Systems (ECRES 2018), June 2018.
86. Besni, F., Buyuksolak, F., Collu, O., Celebioglu, K., Tascioglu, Y., **Aradag, S.**, “Performance tests of Francis type hydraulic turbines”, 6th European Conference on Renewable Energy Systems (ECRES 2018), June 2018.
85. Celebioglu, K., Altintas, B., Tascioglu, Y., **Aradag, S.**, “CFD based design and prediction of performance for hydraulic turbines”, 16th International Conference on Clean Energy (ICCE 2018), May 2018.
84. Elikalfa, A., Celebioglu, K., Acar, E., **Aradag, S.**, “Parametric optimization of a Francis turbine runner”, ECRES 5th European Conference on Renewable Energy Systems, August 2017. (abstract only)
83. Gelisli, A., **Aradag, S.**, “Passive control of supersonic cavity flow oscillations”, 8<sup>th</sup> International Conference on Mechanical and Aerospace Engineering, ICMAE, July 2017. (abstract only)
82. Yuksel, O., Celebioglu, K., **Aradag, S.**, Tascioglu, Y., Pehlivan, A.S., Sahin, C., “Shaft line design of a Francis turbine-Generator system for the rehabilitation of an existing hydroelectric power plant, 8<sup>th</sup> International Conference on Mechanical and Aerospace Engineering, ICMAE, July 2017. (abstract only)
81. Kalin, K., Tascioglu, Y., **Aradag, S.**, Design optimization of a new hybrid MR brake. 2017 International Conference on Mechatronics Systems and Control Engineering, February 2017.
80. Altintas, B., Celebioglu, K., **Aradag, S.**, “Investigation of cavitation properties of a Francis turbine runner”, ECRES 4th European Conference on Renewable Energy Systems, August 2016. (abstract only)
79. Demirel, G., Acar, E., Celebioglu, K., **Aradag, S.**, “CFD driven surrogate based multiobjective shape optimization of an elbow type draft tube”, ECRES 4th European Conference on Renewable Energy Systems, August 2016.
78. Sepetci, G., Cetinturk, H., Ozkan, S. Y., Yuksel, O., Karadeniz, C., Celebioglu, K., Tascioglu, Y., **Aradag, S.**, “Conceptual design of a hydroelectric power plant for a rehabilitation project”,

HEFAT 2016, July 2016.

77. Ayli, E., Celebioglu, K., **Aradag, S.**, “CFD based hill chart construction and similarity study of prototype and model Francis turbines for experimental tests”, HEFAT 2016, 2016.

76. Kakac, S., **Aradag, S.**, “An experimental facility to test the performances of gasketed plate heat exchangers”, XII. HVAC-R Sanitary Technology International Symposium, April 2016. (Invited talk)

75. Cetinturk, H., Celebioglu, K., Tascioglu, Y., **Aradag, S.**, “Inline pipe Francis turbine design, Machines, Technologies, Materials (MTM), 2016.

74. Buyuksolak, F., Celebioglu, K., Tascioglu, Y., **Aradag, S.**, “Design of a Test Cell for Model Hydraulic Turbines”, Machines, Technologies, Materials (MTM), 2016.

73. Ayli, E., Kaplan, A., Cetinturk, H., Demirel, G., Celebioglu, K., **Aradag, S.**, “CFD Analysis of 3D flow for 1.4 MW Francis turbine and model turbine manufacturing”, 35th Computers and Information in Engineering Conference, August 2015.

72. Kaplan, A., Cetinturk, H., Celebioglu, K., **Aradag, S.**, “Reverse engineering design of a hydraulic turbine runner”, World Congress on Engineering, July 2015.

71. Demirel, G., Ayli, E., Celebioglu, K., Tascioglu, Y., **Aradag, S.**, “Experimental determination of cavitation characteristics of hydraulic turbines, World Congress on Engineering, July 2015.

70. Kiyici, F., **Aradag, S.**, “Design and optimization of a supersonic business jet”, 22nd AIAA Computational Fluid Dynamics Conference, June 2015.

69. Ayancik, F., Demirel, G., Celebioglu, K., Acar, E., **Aradag, S.**, “CFD Aided Design and Optimization of Hydraulic Turbines”, 67th Annual Meeting of APS Division of Fluid Dynamics, November 2014. (abstract only)

68. Mert, B., Aytac, Z., Tascioglu, Y., Celebioglu, K., **Aradag, S.**, “Design of an Adaptive Power Regulation Mechanism for a Hydroelectric Power Plant Turbine Test Rig”, 67th Annual Meeting of APS Division of Fluid Dynamics, November 2014. (abstract only)

67. Ayli, E., Kavurmaci, B., Cetinturk, H., Kaplan, A., Celebioglu, K., **Aradag, S.**, Tascioglu, Y., “Design and Construction of a Hydroturbine Test Facility”, 67th Annual Meeting of APS Division of Fluid Dynamics, November 2014. (abstract only)

66. Kaplan, A., Cetinturk, H., Demirel, G., Ayli, E., Celebioglu, K., **Aradag, S.**, “CFD Aided Design and Production of Hydraulic Turbines, 67th Annual Meeting of APS Division of Fluid Dynamics, November 2014. (abstract only)

65. Akin, H., Celebioglu, K., **Aradag, S.**, “A CFD-Based Design Methodology for Hydraulic Turbines Applied to A Case Study in Turkey”, 10th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, July 2014.

64. Ayancik, F., Celebioglu, K., **Aradag, S.**, “Parametrical and theoretical design of a Francis turbine runner with the help of computational fluid dynamics”, 10th International Conference on

Heat Transfer, Fluid Mechanics and Thermodynamics, July 2014.

63. Gulenoglu, C., **Aradag, S.**, Kakac, S., “An experimental facility to test the performances of plate heat exchangers”, Convective Heat and mass Transfer (CONV 2014), June 2014.

62. Ozkaya, E., Gulenoglu, C., **Aradag, S.**, Kakac, S., “CFD simulations and experimental validation for gasketed plate heat exchangers”, Convective Heat and Mass Transfer (CONV 2014), June 2014.

61. Ayli, E., Kiyici, F. Bayer, O., **Aradag, S.**, “Experimental investigation of heat transfer and pressure drop over rectangular profile fins placed in a square channel”, Convective Heat and Mass Transfer (CONV 2014), June 2014.

60. Cetinturk, H., Aytac, Z., Tascioglu, Y., Celebioglu, K., **Aradag, S.**, “Design of a flow diverter mechanism for a hydroturbine experimental test rig”, ASME 12th Biennial Conference on Engineering Systems Design and Analysis (ESDA 2014), June 2014.

59. Dogan, B., Yilmaz, I., Polat, O., Karabulut, O., Ural, A., Uludag, Y., **Aradag, S.**, “A combined experimental and computational study for the design of a low water consumption cooling tower”, ASME 12th Biennial Conference on Engineering Systems Design and Analysis (ESDA 2014), June 2014.

58. Ayli, E., Kavurmaci, B., Celebioglu, K., **Aradag, S.**, “Design and construction of an experimental test rig for hydraulic turbines”, ASME 12th Biennial Conference on Engineering Systems Design and Analysis, June 2014.

57. Ozkaya, E., **Aradag, S.**, Kakac, S., “CFD aided design of heat transfer plates for gasketed plate heat exchangers”, ASME 12th Biennial Conference on Engineering Systems Design and Analysis (ESDA 2014), June 2014.

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