

Assoc. Prof. Dr. Fatih SELİMEFENDİGİL

EDUCATION				
Degree	University	Department / Program	Years	
Undergrad	Istanbul Technical	Mechanical Eng.	2001-	
Ondergrau	University		2004	
MS	Technical University of	Mechanical Eng. / Computational	2004-	
141.5.	Munich	Mechanics	2006	
Dh D	Technical University of	Mechanical Eng. / Thermodynamics	2006-	
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	POSITION	S & EMPLOYMENT			
Affiliation Position Years			Years		
Celal Bayar University, Mechanical Eng.		Assistant Prof. Dr.	2011- 2015		
King Abdulaziz University (Saudi Arabia), Mechanical Eng.		Assistant Prof. Dr.	2010- 2011		
German Aerospace Center (DLR)		Research Engineer	2010 (8 m)		

Assoc. Prof. , ÜAK (YÖK), Mechanical Engineering (20.03.2015)

THESIS	
M.S.	Sound propagation behavior of brake discs using numerical techniques (in English) (Advisors: Prof. Dr. Ing. Gerhard Müller, Dr. Matthias Lambrecht)
Ph.D.	Analysis and Identification of Nonlinear Heat Sources in Thermo-Acoustic Sytems (in English) (Advisors: Prof. Wolfgang Polifke, Prof. R.I. Sujith)

Research	Thermoacoustics, Heat Transfer, System Identification, Computational Fluid
Interests	Dynamics, Model Order Reduction, Ferrofluids, MHD flow, Nanofluids
Foreign	English Cormon
Languages	English, German

ORIGINAL PUBLICATIONS

Article	es Published in Journals Indexed by SCI
	Selimefendigil, F., Öztop, H., Abu-Hamdeh, N.: (2016), Natural Convection and Entropy
55	Generation in Nanofluid Filled Entrapped Trapezoidal Cavities under the Influence of
	Magnetic Field, Entropy 18, 43
	Selimefendigil, F., Chamkha, A. J: (2016), MHD mixed convection in a lid-driven cavity having
54	a corrugated bottom wall and filled with a non-Newtonian power-law fluid under the
	influence of an inclined magnetic field, ASME - Journal of Thermal Science and Engineering
	Applications, in press
	Selimefendigil, F., Öztop, H., Chamkha, A. J. (2016), MHD mixed convection and entropy
	generation of nanofluid filled lid driven cavity under the influence of inclined magnetic fields
53	imposed to its upper and lower diagonal triangular domains, Journal of Magnetism and
	Magnetic Materials, in press
	Selimefendigil, F., Öztop, H: (2016), Conjugate natural convection in a cavity with a
52	conductive partition and filled with different nanofluids on different sides of the partition,
	Journal of Molecular Liquids 216, pp. 67-77
	Selimefendigil, F., Öztop, H: (2016), Mixed Convection Due to Rotating Cylinder in an
51	Internally Heated and Flexible Walled Cavity Filled with SiO2-Water Nanofluids: Effect of
	Nanoparticle Shape, International Communications in Heat and Mass Transfer 71, pp. 9-19
	Selimefendigil, F., Öztop, H., Chamkha, A. J: (2016), Fluid-structure-magnetic field
50	interaction in a nanofluid filled lid-driven cavity with flexible side wall, European Journal of
	Mechanics - B/Fluids (accepted)
	Selimefendigil, F., Öztop, H., Al-Salem, K.: (2016), Control of natural convection heat transfer
49	in ferrofluid filled trapezoidal cavities with a magnetic dipole source, Progress in
	Computational Fluid Dynamics, in press
40	Chamkha, AJ., Selimefendigil, F., Ismael , M.: (2016), Mixed Convection in a Partially Layered
48	Porous Cavity with Inner Rotating Cylinder, Numerical Heat Transfer- Part A , in press
	Selimefendigil, F., Öztop, H: (2015), Influence of inclination angle of magnetic field on mixed
47	convection of nanofluid flow over a backward facing step and entropy generation, Advanced
	Powder Technology 26, pp. 1663-1675
	Selimefendigil, F., Öztop, H: (2015), Mixed Convection in a Two-Sided Elastic Walled and
46	SiO2 Nanofluid Filled Cavity with internal Heat Generation: Effects of inner Rotating Cylinder
	and nanoparticle's shape, Journal of Molecular Liquids 212, pp. 509-516
	Selimefendigil, F., Öztop, H: (2015), Natural convection and entropy generation of nanofluid
45	filled cavity having different shaped obstacles under the influence of magnetic field and
45	internal heat generation, Journal of the Taiwan Institute of Chemical Engineers 56, pp. 42-
	56
	Selimefendigil, F., Öztop, H: (2015), MHD mixed convection and entropy generation of
44	power law fluids in a cavity with a partial heater under the effect of a rotating cylinder,
	International Journal of Heat and Mass Transfer, (under review)
	Selimefendigil, F., Öztop, H., Chamkha, A. J: (2016), MHD mixed convection in a nanofluid
43	filled vertical lid-driven cavity having a flexible fin attached to its upper wall,
	Journal of Hydrodynamics (under review)
12	Selimefendigil, F., Öztop, H: (2015), Mixed convection of ferrofluids in a lid driven cavity
42	with two rotating cylinders, Engineering Science and Technology 18, pp. 439-451
	Selimefendigil, F., Öztop, H: (2015), Effects of phase shift on the heat transfer characteristics
41	in pulsating mixed convection flow in a multiple vented cavity, Applied Mathematical
	Modelling 39, pp. 3666-3677
40	Selimefendigil, F., Öztop, H: (2015), Numerical investigation and reduced order model of

	mixed convection at a backward facing step with a rotating cylinder subjected to nanofluid,				
	Computers and Fluids 109, pp.27-37				
	Selimefendigil, F., Öztop, H: (2015), Numerical study of forced convection of nanofluid flow				
39	over a backward facing step with a corrugated bottom wall in the presence of different				
	shaped obstacles, Heat Transfer Engineering, (in press)				
38	Selimefendigil, F., Öztop, H: (2015), A fuzzy-POD based estimation of unsteady mixed				
	convection in a partition located cavity with inlet and outlet ports , International Journal of				
	Computational Methods 12, 1350107.				
	Selimefendigil, F.: (2015), Numerical investigation and recurrence plot analysis of pulsating				
37	magnetohydrodynamic mixed convection over a backward facing step,				
	Nonlinear Analysis: Modelling and Control, (in press)				
	Selimefendigil, F., Öztop, H: (2015), Numerical study and POD-based prediction of natural				
36	convection in ferrofluids filled triangular cavity with generalized neural networks (GRNN),				
	Numerical Heat Transfer- Part A 67, pp.1136–1161				
35	Selimefendigil, F., Öztop, H: (2014), Natural convection of ferrofluids in partially heated				
	square enclosures, Journal of Magnetism and Magnetic Materials 372, pp. 122–133				
34	Selimefendigil, F., Öztop, H: (2014), Forced convection of ferrofluids in a vented cavity with a				
<u> </u>	rotating cylinder, International Journal of Thermal Sciences 86, pp. 258–275				
	Selimefendigil, F., Öztop, H: (2014), MHD mixed convection of nanofluid filled partially				
33	heated triangular enclosure with a rotating adiabatic cylinder, Journal of the Taiwan				
	Institute of Chemical Engineers 45, pp. 2150–2162				
32	Selimefendigil, F., Oztop, H: (2014), Numerical study of MHD mixed convection in a				
	nanofluid filled lid driven square enclosure with a rotating cylinder 78, pp. 741–754				
	Selimefendigil, F., Oztop, H: (2014), Control of laminar pulsating flow and heat transfer in				
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	Selimefendigil, F., Oztop, H: (2014), Effect of a rotating cylinder in forced convection of				
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	71 , pp. 142–148				
	Selimefendigil, F., Oztop, H: (2014), Numerical study and identification of cooling of heated				
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	Sciences 79, pp. 132-145				
28	Selimetendigil, F., Oztop, H: (2014), Numerical investigation and dynamical analysis of mixed				
	convection in a vented cavity with pulsating flow, Computers and Fluids 91, pp. 57–67				
27	Selimetendigil, F., Oztop, H: (2014), Soft Computing Methods for thermo-acoustic				
	Simulation, Numerical Heat Transfer, Part A 66, pp. 271-288				
26	Selimetendigil, F: (2014), Turbulent forced convection over a backward facing step with a				
	located partition on the upper wall, Heat Transfer Research, (accepted)				
25	Selimetendigil, F., Oztop, H: (2014), Pulsating nanofluids jet impingement cooling of a				
	neated norizontal surface, International Journal of Heat and Mass Transfer 69, pp. 54–65				
24	Selimetendigil, F., Politke, W.: (2014), A Nonlinear, POD-based. Model of Forced Convection				
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23	Selimetendigii, F., Oztop, H: (2014), POD-based Reduced Order Model of a Thermoacoustic				
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	Numerical Heat Transfer, Part A 65, 165-185, Selimefendigil, F., Özton, H: (2014), MHD free convection in a corrugated cavity filled with a
19	porous medium saturated with nanofluids. Applied Math. Computations. (under review)
18	Selimefendigil, F., Öztop, H., Chamkha, AJ: (2015), MHD mixed convection in a nanofluid
	filled vertical lid-driven cavity having a flexible fin attached to its upper wall, Journal of
	Hydrodynamics, (under review)
	Selimefendigil, F., Öztop, H: (2014), Numerical study of natural convection in a ferro-fluid
17	filled corrugated cavity with internal heat generation, ASME- Journal of Heat Transfer <u>,</u> (under review)
	Selimefendigil, F., Öztop, H: (2014), Numerical study and reduced order model of MHD
16	mixed convection oscillating lid-driven porous cavity, Mathematical and Computer
	Modelling of Dynamical Systems , (under review)
	Selimefendigil, F., Oztop, H: (2013), Identification of forced convection in pulsating flow at a
15	backward facing step with a stationary cylinder subjected to nanofluid, International
	Communications in Heat and Mass Transfer 45, pp. 111-121
14	convection heat transfer in a horizontal channel with a cavity heated from below
14	Engineering Applications of Computational Fluid Mechanics 7(2) np 261-271
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13	mixed convection in a square cavity with two ventilation ports. Heat Transfer
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40	Foeller, S, Selimefendigil, F., Polifke, W.: (2013) The linear response of heat transfer of a
12	cylinder in cross flow to velocity fluctuations, Heat and Mass Transfer, (under review)
	Selimefendigil, F., Öztop, H: (2012), Fuzzy-based estimation of mixed convection heat
11	transfer in a square cavity in the presence of an adiabatic inclined fin, International
	Communications in Heat and Mass Transfer 39, pp. 1639-1646,
10	Selimefendigil, F., Öztop, H: (2014) 'Effects of an adiabatic inclined fin on the mixed
10	Selimefendigil, F., Öztop, H: (2014) 'Effects of an adiabatic inclined fin on the mixed convection heat transfer in a square cavity, <u>Progress in Computational Fluid Dynamics</u> 14 pp. 268-275
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10 9 8 7	 Selimefendigil, F., Öztop, H: (2014) 'Effects of an adiabatic inclined fin on the mixed convection heat transfer in a square cavity, Progress in Computational Fluid Dynamics 14, pp. 268-275 Selimefendigil, F.: (2013), Numerical analysis of mixed convection in pulsating flow for a horizontal channel with a cavity heated from below, Thermal Science, (in press) Selimefendigil, F., Öztop, H: (2013), Effects of an adibatic fin on the mixed convection heat transfer in a square cavity with two ventilation ports, Thermal Science 18, pp.377-389 Selimefendigil, F., Yurddas, A.: (2012) Numerical analysis of mixed convection heat transfer in pulsating flow for a horizontal channel with a cavity heated from vertical analysis of mixed convection heat transfer in pulsating flow for a horizontal channel with a cavity heated from vertical side and below, Heat Transfer Research 43 (6), pp. 509-525
10 9 8 7	 Selimefendigil, F., Öztop, H: (2014) 'Effects of an adiabatic inclined fin on the mixed convection heat transfer in a square cavity, Progress in Computational Fluid Dynamics 14, pp. 268-275 Selimefendigil, F.: (2013), Numerical analysis of mixed convection in pulsating flow for a horizontal channel with a cavity heated from below, Thermal Science, (in press) Selimefendigil, F., Öztop, H: (2013), Effects of an adibatic fin on the mixed convection heat transfer in a square cavity with two ventilation ports, Thermal Science 18, pp.377-389 Selimefendigil, F., Yurddas, A.: (2012) Numerical analysis of mixed convection heat transfer in pulsating flow for a horizontal channel with a cavity heated from vertical side and below, Heat Transfer Research 43 (6), pp. 509-525 Selimefendigil, F.: (2012) Numerical analysis and identification of mixed convection in
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10 9 8 7 6	 Selimefendigil, F., Öztop, H: (2014) 'Effects of an adiabatic inclined fin on the mixed convection heat transfer in a square cavity, Progress in Computational Fluid Dynamics 14, pp. 268-275 Selimefendigil, F.: (2013), Numerical analysis of mixed convection in pulsating flow for a horizontal channel with a cavity heated from below, Thermal Science, (in press) Selimefendigil, F., Öztop, H: (2013), Effects of an adibatic fin on the mixed convection heat transfer in a square cavity with two ventilation ports, Thermal Science 18, pp.377-389 Selimefendigil, F., Yurddas, A.: (2012) Numerical analysis of mixed convection heat transfer in pulsating flow for a horizontal channel with a cavity heated from vertical side and below, Heat Transfer Research 43 (6), pp. 509-525 Selimefendigil, F.: (2012) Numerical analysis and identification of mixed convection in pulsating flow in a square cavity with two ventilation ports in the presence of a heating block, Journal of the Brazilian Society of Mechanical Sciences and Engineering, 35 (3), pp.
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10 9 8 7 6 5 4 3	 Selimefendigil, F., Öztop, H: (2014) 'Effects of an adiabatic inclined fin on the mixed convection heat transfer in a square cavity, Progress in Computational Fluid Dynamics 14, pp. 268-275 Selimefendigil, F.: (2013), Numerical analysis of mixed convection in pulsating flow for a horizontal channel with a cavity heated from below, Thermal Science, (in press) Selimefendigil, F., Öztop, H: (2013), Effects of an adibatic fin on the mixed convection heat transfer in a square cavity with two ventilation ports, Thermal Science 18, pp.377-389 Selimefendigil, F., Yurddas, A.: (2012) Numerical analysis of mixed convection heat transfer in pulsating flow for a horizontal channel with a cavity heated from vertical side and below, Heat Transfer Research 43 (6), pp. 509-525 Selimefendigil, F.: (2012) Numerical analysis and identification of mixed convection in pulsating flow in a square cavity with two ventilation ports in the presence of a heating block, Journal of the Brazilian Society of Mechanical Sciences and Engineering, 35 (3), pp. 265-273 Selimefendigil, F.: (2011) Non-Normal Investigations of a Thermo-Acoustic Heat Engine, AIP Conference Proceedings 1389, pp. 54-57, (Indexed by ISI) Selimefendigil, F.: (2011) Network Model of a Thermo-Acoustic Heat Engine Assisted with Unsteady CFD and System Identification, AIP Conference Proceedings 1389, pp. 58-61.

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2	Non- Modal Analysis of Thermo-Acoustic Stability, Applied Mathematics and Computation
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1	Nonmodal Stability Analysis of Thermoacoustic Systems, AIP Conference Proceedings 1168,
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Artic	les Published in Other International Refereed Journals
5	Oztop, H., Selimefendigil, F. , Abu-Nada, E., Al-Salem, K: (2015), Recent developments of computational methods on natural convection in curvilinear shaped enclosures, Journal of Thermal Engineering , (accepted)
4	Selimefendigil, F., Oztop, H: (2015), MHD natural convection of nanofluid filled trapezoidal enclosure with a stationary adiabatic cylinder, International Journal Of Advancements In Mechanical And Aeronautical Engineering, Vol. 2, pp. 157-160
3	Ersayın, E., Selimefendigil, F. : (2013) Numerical investigation of impinging jets with nanofluids on a moving plate, Mathematical and Computational Applications, Vol. 18, No. 3, pp. 428-437
2	Basaran, A., Selimefendigil, F. : (2013) Numerical study of heat transfer due to twinjets impingiment onto an isothermal moving plate,, Mathematical and Computational Applications, Vol. 18, No. 3, pp. 340-350
1	Selimefendigil, F. , Polifke,W.: (2011) A Frequency Domain System Model with Coupled Modes for Limit Cycle Prediction of Thermoacoustic Systems, Int. Journal of Spray and Combustion Dynamics 3(4), pp. 303-330

Inter	national Conferences
9	Selimefendigil, F., Öztop, H: Magnetic Field Effect of Mixed Convection of Pulsating Flow
	over a Backward Facing Step, INT. CONFERENCE ON ADVANCES IN MECHANICAL
	ENGINEERING, ISTANBUL, 2015
	Selimefendigil, F., Öztop, H: MHD natural convection of nanofluid filled trapezoidal
8	enclosure with a stationary adiabatic cylinder, Proc. of the Second Intl. Conf. on Advances In
	Mechanical and Robotics Engineering- AMRE 2014, Switzerland, 2014.
	Selimefendigil, F. : Numerical Simulation and Reduced Order Model of a Thermoacoustic
7	Heat Engine, n3l - Non-Normal and Nonlinear Effects in Aero-and Thermoacoustic, Munich,
	Germany, 2013
6	Basaran, A. and Selimefendigil, F. : Numerical Study of Heat Transfer Due to Twinjets
0	Impigement onto an Isothermal Moving Plate, ICMA 2013, Manisa, Turkey, 2013
5	Ersayın, E. and Selimefendigil, F. : Numerical Investigation of Impinging Jets with Nanofluids
5	on a Moving Plate", ICMA 2013, Manisa, Turkey, 2013.
	Selimefendigil, F., Polifke, W.: A frequency domain system model with coupled modes for
4	limit cycle prediction of thermoacoustic systems, n3l - Non-Normal and Nonlinear Effects in
	Aero- and Thermoacoustic, Munich, Germany, 2010
	Selimefendigil, F., Sujith, R.I., Polifke, W.: Identification of heat transfer dynamics for
3	nonmodal stability analysis of thermoacoustic systems, 7th International Conference of
	Numerical and Applied Mathematics (ICNAAM 09), 18-24 September, Crete, Greece, 2009
	Foeller, S., Selimefendigil, F., Polifke, W.: Linear identification of the unsteady heat transfer
2	of a cylinder in pulsating crossflow, 2nd International Conference on Jets, Wakes and
	Separated Flows, Berlin, Germany, 2008
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1	transfer of a cylinder in pulsating crossflow, 2nd International Conference on Jets, Wakes
	and Separated Flows, Berlin, Germany, 2008

Othe	r Publications
1	Selimefendigil, F., Güney A., R744 / R134a kaskad soğutma sisteminin enerji ve ekserji
	analizi , Termodinamik 261, May 2014.
	Selimefendigil, F., Polifke, W.: Low order model of heat source in pulsating flow based on
2	proper orthogonal decomposition, in SFB-TR 40 Jahresbericht, Editors: Adams, N. A.,
	Radespiel, R., Sattelmayer, T., Schroeder, W. and Weigand, B., 2009
3	F. Selimefendigil: Identification and Analysis of Nonlinear Heat Sources in Thermo-Acoustic
	Systems, PhD thesis, Technische Universität München, ISBN 978-3-86853-547-1, July 2010
4	F. Selimefendigil. Sound propagation behavior of brake discs using numerical techniques.
	Master's thesis, Technische Universität München, 2006

PROJECTS				
	Date	Institution	Subject	Position
1	2006-2010	DFG (Germany)	Local and Global Nonlinearities in Thermoacoustics	PhD scholar
2	2010 (8 m)	FFAST (Airbus <i>,</i> DLR)	Reduced Order Models of Aerodynamics	Researcher
3	2013	SFB-TR40 (Germany), Summer Reseach Program	Analysis of Nonlinear Acoustic Damping at Duct Discontinuities with LES and System Identification	Researcher
4	2015-2017	CBU-BAP (2015-049)	Numerical study of forced convection of ferrofluids in pulsating flow over a backward facing step	Principal Investigator
5	2015-2017	TUBITAK-TEYDEB 1505- (5150047)	TİCARİ BUZDOLAPLARINDA ENERJİ VERİMLİLİĞİ YÜKSEK YENİ NESİL EVAPORATÖR VE KONDENSER TASARIMININ SAYISAL VE DENEYSEL OLARAK İNCELENMESİ VE OPTİMİZASYONU	Principal Investigator
6	2016-(8m)	CBU-BAP (under review)	Nanopartiküllerin soğutucu sistemde kullanılmasının enerji verimine etkisinin deneysel olarak araştırılması	Principal Investigator
7	2016-2019	TUBITAK-1001 MAG 215M892	Enerji depolamalı Fotovoltaik-Termoelektrik hibrid güç üretim cihazının tasarım ve performans karakteristiklerinin incelenmesi	Researcher

Reviewer Activity
Computers and Fluids
International Journal of Thermal Sciences
Numerical Heat Transfer, Part A
International Comm. Heat and Mass Transfer
Journal of Chemical Engineering of Japan
Engineering Science and Technology: an International Journal (Elsevier)
Energy Conversion and Management

Advances in Mechanical Engineering
Powder Technology
Thermal Science
Journal of Thermal Science and Technology
Journal of Energy Engineering
Journal of Chemical Engineering of Japan
Turkish Journal of Engineering and Environmental Sciences
Journal of Applied Mathematics
International Communications in Heat and Mass Transfer
Heat Transfer – Asian Research (Wiley)
International Journal of Heat and Mass Transfer
The European Physical Journal
Alexandria Engineering Journal (Elsevier)
Neural Computing and Applications (Springer)
International Journal of Numerical Methods for Heat & Fluid Flow
Inverse Problems in Science & Engineering
Physica A: Statistical Mechanics and its Applications
Tübitak projects

ACADEMICAL AWARDS

Scientific publication award, TUBITAK, 2012, 2013, 2014, 2015
Publication-performance award, Celal Bayar University, 2013, 2014, 2015
Reviewer performance award, Celal Bayar University, 2014

COURSES GIVEN

Undergraduate and graduate level courses:

Fluid Dynamics, Thermoacoustic Systems, Adv. Heat and Mass Transfer, Computational Fluid Dynamics, Thermodynamics I-II, Engineering Mechanics, Heat Exchanger Design, Heat Transfer I-II, Numerical Heat Transfer

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