

**IŞIK UNIVERSITY**  
**Mechanical Engineering Department**  
**Personnel Data Form**

A. PERSONAL		
Title	Prof. Dr.	
Name	Kadir KIRKKÖPRÜ	
Birth Place and Year	İstanbul 1957	
e-Mail / Personal Web Site	<a href="mailto:kirkkopruk@itu.edu.tr">kirkkopruk@itu.edu.tr</a> <a href="http://web.itu.edu.tr/kirkkopruk/">http://web.itu.edu.tr/kirkkopruk/</a>	
Working Field	Mechanical Engineering, Thermo-Fluid Sciences	
Foreign Language	English	

B. EDUCATION			
Degree	Year	Subject	Institution
Doctorate	1988	Mechanical Engineering	University of Colorado at Boulder, USA
Master of Science	1981	Mechanical Engineering	ITU Graduate School
Bachelor of Science	1979	Mechanical Engineering	ITU Faculty of Mechanical Engineering
Associate			

C. ACADEMIC		
Title	Year	Institution
Professor	1998-	ITU Faculty of Mechanical Engineering
Associate Professor	1991-1998	ITU Faculty of Mechanical Engineering
Assistant Professor		
Lecturer	1990-1991	ITU Faculty of Mechanical Engineering
Research Assistant	1984-1988	University of Colorado at Boulder, USA
	1981-1983	ITU Faculty of Mechanical Engineering

D. PROFESSIONAL EXPERIENCE	
a. Domestic	
Faculty Member	Istanbul Technical University, Faculty of Mechanical Engineering
b. Abroad	
Senior Research Associate	University of East Anglia, England, 1988-1990
Research Associate	University of Colorado at Boulder, USA, 1993-1994

E. ADMINISTRATIVE EXPERIENCE	
a. In the University	
Vice Dean	Istanbul Technical University, Faculty of Mechanical Engineering
Department Head	Istanbul Technical University, Faculty of Mechanical Engineering
Senate Member	Istanbul Technical University

Coordinator	Defense Technology Program, ITU Graduate School
<b>b. In other Institutions</b>	

<b>F. INTERESTED SUBJECTS</b>
Fluid Mechanics
Heat Transfer
Hydraulic Machinery
Polymer Flows
Computational Fluid Dynamics and Heat Transfer

<b>G. INSTRUCTED COURSES</b>	
<b>a. At Işık University</b>	<b>b. At the Other Institutions</b>
ME362 Heat Transfer	Fluid Mechanics
	Hydraulic Machinery
	Advanced Fluid Dynamics
	Viscous Flows
	Computational Fluid Dynamics and Heat Transfer

<b>H. NUMBER OF SUPERVISED GRADUATE THESIS</b>	
<b>Master of Science</b>	10
<b>Doctorate</b>	2

<b>I. PUBLICATIONS</b>						
Type	SCI International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
<b>Numbers</b>	11	5	4	12	8	1
<b>SCI Total Number of Citations</b>	74					
<b>Important Publications</b>						
1- Havlucu, MO. and Kirkkopru, K. "Numerical Simulation of Flow in a Solid Rocket Motor: Combustion Coupled with Regressive Boundary", Journal of Multidisciplinary Engineering Science and Technology (JMEST) ISSN: 3159-0040 Vol. 3 Issue 1, January (2016)						
2- Yilmaz O. ve Kirkkopru K., "Process Material Independent Design of Conical Coat-Hanger Dies by Analytical Approach", Fibers and Polymers, Vol. 16, No 9, 1955-1963, Springer- Verlag, 2015.						
3- O. Yilmaz, H. Gunes and K. Kirkkopru, "Optimization of a Profile Extrusion Die for Flow Balance", Fibers and Polymers, Vol. 15, No 4, 753-761, Springer- Verlag, 2014.						
4- Uygun, M. and Kirkkopru, K. "Katı yakıtlı Raket Motorlarında Daimi Olmayan Akışların İkili Zaman Adımlaması Yöntemi ile Sayısal Benzetimi" İTÜ Dergisi/d: Mühendislik , Cilt 8, Sayı 2(2009),41-52.						
5- Uygun, M. and Kirkkopru, K. "Computation of Time-Accurate Laminar Flows Using Dual Time Stepping and Local Preconditioning with Multigrid", Tübitak DOĞA, Turkish J. Eng. Env. Sci., <b>31</b> , (2007), 211-223.						
6- Kirkkopru, K, Zhao, Q., Kassooy, D.R. and Staab, P.L., " Acoustically Generated Unsteady Vorticity Field in a Long Narrow Cylinder with Sidewall Injection", J. of Engineering Mathematics, V42, 65-90, 2002.						

7- Staab, P.L. , Zhao, Q., Kassoy, D. R. and Kirkkopru, K. , "Acoustically Generated Vorticity in an Internal Flow", Journal of Fluid Mechanics, 413, 247-285, 2000.
8- Kirkkopru, K, Kassoy, D. R. and Zhao, Q " Unsteady Vorticity Generation and Evolution in a Model of a Solid Rocket Motor:", J. Propulsion and Power, Vol. 12, Iss. 4, 646-654, 1996.
9- Kirkkopru, K and Kassoy, D. R. "Dissociation-Recombination Relaxation Behind a Normal Shock", Physics of Fluids A, 3, 2777-2785, 1991.
10- Kirkkopru, K and Kassoy, D. R. "High-Speed Reaction Zone Structure for Variable Mole Chemistry", SIAM J. Appl. Math. Vol. 51, 4, 1090-1118, 1991.

<b>J. RESEARCH EXPERIENCE</b>						
<b>Number of Projects</b>	<b>DPT Projects</b>	<b>TÜBİTAK Projects</b>	<b>SANTEZ Projects</b>	<b>BAP Projects</b>	<b>EU Projects</b>	<b>Other Projects</b>
<b>As Supervisor</b>			1	2		1
<b>As Researcher</b>		2				

<b>K. REFERREING</b>								
	SCI Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
<b>Numbers</b>	2	5	4	15	7		35	

<b>L. INTELLECTUAL PROPERTIES</b>			
<b>Patents</b>	<b>Utility Models</b>	<b>Industrial Designs</b>	<b>Other</b>

<b>M. PROFESIONAL ASSOCIATION MEMBERSHIPS</b>