IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data Form

A. PERSONAL		
Title	Assoc. Prof. Dr. (Part-Time)	
Name	Erkin DİNÇMEN	
Birth Place / Year	Trabzon / 21.06.1978	
e-Mail / Personal Web Site	erkin.dincmen@yildiz.edu.tr erkin.dincmen@isikun.edu.tr	
Working Field(s)	System Dynamics and Control	
Foreign Language(s)	English	

B. EDUCATION			
Degree	**Year**	**Subject**	**Institution**
Doctorate	2011	Mechanical Engineering	Istanbul Technical University
Master of Science	2003	Mechanical Engineering	Istanbul Technical University
Bachelor of Science	2000	Mechanical Engineering	Istanbul Technical University

C. ACADEMIC		
Title	**Year**	**Institution**
Associate Professor	2025 -	Yıldız Technical University, Control and Automation Engineering
Associate Professor	2019-2025	Işık University, Mechanical Engineering
Assistant Professor	2011-2019	Işık University, Mechanical Engineering

D. PROFESSIONAL EXPERIENCE	
a. Domestic	
2025 -	Faculty Member, Yıldız Technical University, Control and Automation Department
2011 – 2025	Faculty Member, Işık University, Mechanical Engineering Department
2006 – 2011	Researcher, Istanbul Technical University, Mekar Lab.
2002 – 2003	Project Assistant, Arçelik A.Ş.
b. Abroad	

E. ADMINISTRATIVE EXPERIENCE	
a. At Işık University	
2011-2025	Department Erasmus Coordinator
2020-2025	Faculty Executive Board Member
2020-2025	Faculty Board Member
b. At Other Institutions/Companies	

F. INTERESTED SUBJECTS
Vehicle Dynamics and Control
Energy Management in Electric and Hybrid Vehicles
Optimization

G. INSTRUCTED COURSES	
a. At Işık University	**b. At Other Institutions**
Modeling and Control of Dynamic Systems	System Dynamics, Modeling and Simulation
Computational Methods in Engineering	Mechatronics
Vehicle Dynamics	Multivariable Control Theory
Electric and Hybrid Vehicle Technology	Dynamics
Dynamics	
Introduction to Solid Mechanics	
Industrial Automation	
Modern Control Theory	
Automotive Mechatronics	
Introduction to Robotics	
Control System Design	
Machine Theory	

H. NUMBER OF SUPERVISED GRADUATE THESIS	
Master of Science	4
Doctorate	

I. PUBLICATIONS

Type	SCI-Expanded International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	9	3		11	1	1

SCI-Expanded Total Number of Citations	199

Important Publications

O. Ergun, E. Dincmen, and I. Istif, 2025, Development of Deep Neural Network—Decision Tree Hybrid Control Strategy for Regenerative Braking in Electric Vehicles, IET Intelligent Transport Systems 19, no. 1, e70127. https://doi.org/10.1049/itr2.70127

Dinçmen, E., 2024, Neural network steering control algorithm for autonomous ground vehicles having signal time delay. Proceedings of the Institution of Mechanical Engineers, Part I: Journal of Systems and Control Engineering, 238(4), 720-736.

Dincmen, E., 2022, A Cooperative Neural Network Control Structure and its Application for Systems Having Dead-Zone Nonlinearities, Iranian Journal of Science and Technology, Transactions of Electrical Engineering, 46, 187–203

Dincmen, E., 2019, A Source Seeking Algorithm with Application to a Quadcopter Model, Optimization and Robotic Applications, 1-26, Nova Science Publishers, ISBN: 978-1-53616-525-8.

Dincmen, E., 2018, Extremum seeking dead-zone pre-compensator for an industrial control system, Automatisierungstechnik, 66(6), 471-482.

Dincmen, E., Altinel, T., 2018, An emergency braking controller based on extremum seeking with experimental implementation, International Journal of Dynamics and Control. 6(1), 270-283.

Dincmen, E., 2017, Design of a global extremum seeking algorithm for an omni-directional robot model, Journal of Control Engineering and Applied Informatics, vol. 19, no. 2, pp. 111-121.

Dincmen, E., 2017, Extremum seeking control of uncertain systems, TWMS J. of Appl. and Eng. Math, vol. 7, no. 1, pp. 131-141.
Dincmen, E., 2017, A Gain-Switched Self Optimizer for Braking Controller, International Journal of Adaptive Control and Signal Processing, vol. 31, no. 6, pp. 953-968
Dincmen, E., Guvenc, B. A., Acarman T., 2014, Extremum Seeking Control of ABS Braking in Road Vehicles with Lateral Force Improvement, IEEE Transactions on Control Systems Technology, vol. 22, no:1, pp. 230237.
Dincmen, E., Guvenc, B. A., 2012, A Control Strategy for Parallel Hybrid Electric Vehicles Based On Extremum Seeking, Vehicle System Dynamics, vol. 50, no. 2, pp. 199-227.

J. RESEARCH EXPERIENCE

Number of Projects	DPT Projects	TÜBİTAK Projects	SANTEZ Projects	BAP Projects	EU Projects	Other Projects
As Supervisor		2				
As Researcher		1				

K. REFERREING

Type	SCI Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers	53		4		12	3	11	

L. INTELLECTUAL PROPERTIES

Patents	Utility Models	Industrial Designs	Other

M. PROFFESIONAL ASSOCIATION MEMBERSHIPS

Turkish National Committee of Automatic Control
Turkish Chamber of Mechanical Engineers

N. OTHER USEFUL INFORMATION (if any)
