IŞIK UNIVERSITY
Mechanical Engineering Department
Personnel Data

A. PERSONAL	
Title	Assist. Prof. Dr.
Name	Hıdır MARAL
Birth Place and Year	Pertek 1986
e-Mail / Personal Web Site	hidir.maral@isikun.edu.tr
Specialization Area	Fluid Dynamics, Turbomachinery
Foreign Language	English, German

B. EDUCATION			
Degree	**Year**	**Subject**	**Institution**
Doctorate	2019	Mechanical Engineering	Istanbul Technical University
Master of Science	2012	Heat & Fluid	Istanbul Technical University
Bachelor of Science	2009	Mechanical Engineering	Istanbul Technical University
Associate			

C. ACADEMIC		
Title	**Year**	**Institution**
Professor		
Associate Professor		
Assistant Professor	2020 -	Isik University
Lecturer		
Research Assistant	2010 - 2018	Istanbul Technical University

D. PROFESSIONAL EXPERIENCE	
Year	
a. Domestic	
2010 – 2018	ITU Mechanical Engineering Faculty – Research Assistant
2019 – 2019	Roketsan Missiles – Senior Expert Engineer
b. Abroad	

E. ADMINISTRATIVE EXPERIENCE	
a. At Işık University	
b. At other Institutions	

F. INDUSTRIAL EXPERIENCE

Year	Company	Title
2019 – 2019	Roketsan Missiles	Senior Expert Engineer

G. INSTRUCTED COURSES

a. At Işık University	b. At the Other Institutions

H. INTERESTED FIELDS

Fluid Dynamics, Aerodynamics, Turbomachinery, Computational Fluid Dynamics, Heat Transfer, Gas Turbines, Renewable Energy

I. NUMBER OF SUPERVISED GRADUATE THESIS

Master of Science	
Doctorate	

J. PUBLICATIONS

Type	SCI-Exp International Journal Papers	Other International Journal Papers	National Referred Journal Papers	International Symposium Papers	National Symposium Papers	Books / Chapters in Books (Translations Incl.)
Numbers	6	1				

SCI-Exp Total Number of Citations	20

Important Publications

Maral, H., Senel, C. B., Deveci, K., Alpman, E., Kavurmacioglu L. & Camci, C. A Genetic Algorithm Based Multi-Objective Optimization of Squealer Tip Geometry in axial Flow Turbines: A Constant Tip Gap Approach. *ASME Journal of Fluids Engineering* **https://doi.org/10.1115/1.4044721**

Maral, H., Alpman, E., Kavurmacıoğlu, L., & Camci, C. (2019). A genetic algorithm based aerothermal optimization of tip carving for an axial turbine blade. *International Journal of Heat and Mass Transfer, 143*, 118419. **https://doi.org/10.1016/j.ijheatmasstransfer.2019.07.069**

Deveci, K., **Maral, H.,** Senel, C. B., Alpman, E., Kavurmacioglu L., & Camci, C. (2018). Aerothermal optimization of squealer geometry in an axial flow turbine using genetic algorithm. *Journal of Thermal Engineering,* Vol. 4 (3) pp. 1896-1911 **10.18186/journal-of-thermal-engineering.408701**

Kavurmacioglu, L., **Maral, H**., Senel, C. B., & Camci, C. (2018). Performance of partial and cavity type squealer tip of a HP turbine in a linear cascade. *International Journal of Aerospace Engineering.* **doi: 10.1155/2018/3262164**

Kavurmacioglu, L., **Maral, H**., Senel, C. B., & Camci, C., 2018. Casing grooves to improve aerodynamic performance of a HP turbine blade. *Journal of Aerospace Science and Technology*, Vol. 76, pp. 194-203. **https://doi.org/10.1016/j.ast.2018.01.047**

Senel, C. B., **Maral, H.,** Kavurmacioglu, L., & Camci, C., 2018. An aerothermal study of the influence of squealer width and height near a HP turbine blade. Int. *Journal of Heat & Mass Transfer*, Vol. 120, pp. 18-32. **https://doi.org/10.1016/j.ijheatmasstransfer.2017.12.017**

K. RESEARCH EXPERIENCE

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

L. REFEREEING

	SCI-Exp Journals	Other Journals		Symposiums		R & D Projects		
		National	International	National	International	ARDEB	TEYDEB	International
Numbers	5							

M. INTELLECTUAL PROPERTIES

Patents #	Utility Models #	Industrial Designs #	Other # (……………..)

N. PROFFESIONAL ASSOCIATION MEMBERSHIPS

TMMOB, Turkish Chamber of Mechanical Engineers