R. Özgür DORUK, Ph.D.
Associate Professor
Atılım University
Department of Electrical and Electronic Engineering
06830 İncek, Gölbaşı, Ankara/TURKEY
resat.doruk@atilim.edu.tr
Tel: +90 312 586 87 33

PERSONAL

Date of Birth	22/10/1978
Place of Birth	Ankara/TURKEY

EDUCATION

2003-2008	Middle East Technical University, Electrical and Electronic Engineering, Ph.D.
2000-2003	Middle East Technical University, Electrical and Electronic Engineering, M.S.
1996-2000	Middle East Technical University, Mechanical Engineering, B.S.

ACADEMIC POSITIONS

02/2015	Associate Professor, Department of Electrical and Electronic Engineering, Atilim University, Turkey
09/2012-06/2014	Visitng Faculty, School of Medicine, Theoretical Neuroscience Laboratory Johns Hopkins University, Baltimore/USA
09/2008-02/2012	Instructor, Middle East Technical University, Northern Cyprus Campus

ADMINISTRATIVE DUTIES

01/2016	Departmental Accreditation Coordinator, Department of Electrical and Electronic Engineering, Atilim University

HONORS&AWARDS

1	TUBITAK DB-2219 Research Grant (Supported the project performed in Johns Hopkins Medical School for 6 months).

RESEARCH INTERESTS

1	Theoretical Neuroscience
2	Biophysics

PROFESSIONAL SERVICE

1	Reviewer, International Journal of System Science
2	Researcher at Turkish Scientific and Technological Research Inst. (2001-2005)

PUBLICATIONS

1	Doruk RO, Zhang K. Fitting of dynamic recurrent neural network models to sensory stimulus-response data. Journal of biological physics. 2018 Jun 2:1-21.
2	Doruk OR. Control of hopf bifurcations in hodgkin-huxley neurons by automatic temperature manipulation. NeuroQuantology. 2018 Dec 22;16(2).
3	Doruk RO. Control of repetitive firing in Hodgkin–Huxley nerve fibers using electric fields. Chaos, Solitons & Fractals. 2013 Jul 1;52:66-72.
4	DORUK RÖ. Washout filter based control for the Hodgkin-Huxley nerve cell dynamics. TURKISH JOURNAL OF ELECTRICAL ENGINEERING & COMPUTER SCIENCES. 2010 Aug 18;18(4):553-70.
5	Doruk RO. Feedback controlled electrical nerve stimulation: A computer simulation. Computer methods and programs in biomedicine. 2010 Jul 1;99(1):98-112.

PROJECTS

1	Adaptive Stimulus Design for the Modeling of Auditory Sensory System, TUBITAK DB-2219 Project

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	12
H-index (ISI Web of Science):	3

COURSES GIVEN

1	EE 326 Control Systems
2	EE 428 Biomedical Signals and Instrumentation
3	EE 504 Introduction to Systems Analysis

THESES SUPERVISED

1	MS Thesis, Ammar ABDALLAH: Control of bifurcations in coupled Fitzhugh-Nagumo neurons, 2017
2	MS Thesis, Hamza IHNISH: Control of bifurcations in the Fitzhugh-Nagumo nerve cell dynamics, 2017
3	PhD Thesis, Laila ABOSHARB: Modeling Fitzhugh-Nagumo neurons from neural spiking data, In progress
4	PhD Thesis, Abobakar ZARGOUN: Bifurcation Control in coupled Hodgkin-Huxley neurons, In progress