

Dr. Muhammet Uzuntarla

CONTACT INFORMATION	Zonguldak Bulent Ecevit University, Department of Biomedical Engineering, Farabi Campus, 67100 Incivez Zonguldak, Turkey
KEYWORDS	<i>Biomedical Engineering, Computational Neuroscience, Electronic Instrumentation, Dynamical Systems.</i>
EDUCATION	Ph.D , Electrical and Electronics Engineering, University of Sakarya, Turkey. 2011 MSc , Electrical and Electronics Engineering, Zonguldak Karaelmas University, Turkey. 2006 BS , Electronics and Communications Engineering, University of Kocaeli, Turkey. 2003
POSITIONS	Research Fellow , Centre for Neural Dynamics, University of Ottawa, Canada, 2019 - <i>present</i> Research Fellow , Krasnow Institute for Advanced Studies, George Mason University, VA, USA, 2015 - 2016 Assoc. Prof. Dr. , Department of Biomedical Engineering, Zonguldak Bulent Ecevit University, Turkey, 2015 - <i>present</i> Asst. Prof. Dr. , Department of Biomedical Engineering, Zonguldak Bulent Ecevit University, Turkey, 2011 -2015 Research Assistant , Department of Electrical and Electronics Engineering, Zonguldak Bulent Ecevit University, Turkey, 2004- 2011
PROFESSIONAL SERVICE	<ul style="list-style-type: none">• Editor in Chief, Turkish Journal of Electrical Engineering and Computer Sciences, 2019-<i>present</i>.• Assistant Editor in Chief, Turkish Journal of Electrical Engineering and Computer Sciences, 2016 - 2019.• Editorial Board Member, Neurocomputing, 2016 - <i>present</i>.• Editorial Board Member, Fluctuations and Noise Letters, 2018-<i>present</i>.• Chair, Department of Biomedical Engineering, Bulent Ecevit University, 2017-2019.• Deputy Chair, Department of Biomedical Engineering, Bulent Ecevit University, 2011 - 2015.• Principle Investigator of the Biomedical Calibration Application and Research Center, 2013 - 2015.
REFEREED JOURNAL PUBLICATIONS (SCI-INDEXED)	[1] A.Calim, J.J. Torres, M.Ozer, M. Uzuntarla. Chimera States in Hybrid Coupled Neuron Populations. <i>Neural Networks</i> , to appear, 2020. [2] J.J. Torres, M. Uzuntarla, J. Marro. A Theoretical Description of Inverse Stochastic Resonance in Nature. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 80: 104975, 2020. [3] M. Uzuntarla. Firing dynamics in hybrid coupled populations of bistable neurons. <i>Neurocomputing</i> , 367:328-336, 2019. [4] M. Uzuntarla, J.J. Torres, A. Çalim, E. Barreto. Spike termination in networks of bistable neurons. <i>Neural Networks</i> , 110: 131-140, 2019. [5] S.N. Agaoglu, A. Çalim, P. Höevel, M. Özer, M. Uzuntarla. Vibrational resonance in a Scale-Free network with different coupling schemes. <i>Neurocomputing</i> , 325: 59-66, 2019.

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BOOK CHAPTERS

- [1] M. Ozer, M. Uzuntarla. Synchronization between neuronal spiking activity and subthreshold sinusoidal stimuli based on the FitzHugh-Nagumo model. *Mathematical Methods in Engineering*, Eds. K. Tas, J.A. Tenreiro Machado and D. Baleanu, Springer ISBN: 978-1-4020-5677-2, 415-421, 2007.

INTERNATIONAL
CONFERENCE
PROCEEDINGS

- [1] A. Çalim, P. Hövel, M. Özer, M. Uzuntarla, Chimera State in Neuron Populations with Dynamical Synapses, *DPG Spring Meeting - Berlin18*, Berlin, Germany, March 11-16, 2018.
- [2] A. Calim, U. Ileri, M. Uzuntarla, M.Ozer. Vibrational resonance in feed-forward neural network motifs. *24th Annual Computational Neuroscience Meeting: CNS*2015*, Prague, Czech Republic, July 18-23, 2015.
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- [6] M. Ozer, M. Uzuntarla, L.J. Garaham. Effect of ratio of inhibitory and excitatory conductance on regularity of spontaneous cortical activity. *19th Biennial International Eurasip Conference-BIOSIGNAL 2008*, Brno, Czech Republic, *Analysis of Biomedical Signals and Images, 64-68*, ISBN 978-80-214-3613-8, June 29- July 1, 2008.
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PUBLICATIONS

- [1] U. Ileri, A. Calim, M. Ozer, M. Uzuntarla, Latency coding in neurons with short-term synaptic depression and facilitation. *Journal of the Istanbul Faculty of Medicine*, 77(1): 72, 2014.
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- [2] A. Çalim, M. Özer, M. Uzuntarla, “Heterojen Nöron Ağlarında Eşik Altı Sinyal Algılama”, *IEEE 26. Sinyal İşleme ve İletişim Uygulamaları Kurultayı (SIU2018)*, İzmir, 2-5 Mayıs 2018
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- [5] A. Calim, M. Ozer, M. Uzuntarla, Simulation of parkinsonian basal nuclei with network motifs. *IEEE 25th Signal Processing and Communications Applications, SIU 2017, Antalya, Turkey 2017*.
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- [10] A. Calim, U. Ileri, M. Uzuntarla, M. Ozer, Effects of synaptic reliability on the regularity of neuronal firing. *IEEE 23th Signal Processing and Communications Applications, SIU 2015, Malatya, Turkey 2015*.
- [11] U. Ileri, A. Calim, M. Uzuntarla, M. Ozer, The role of short-term synaptic depression and adaptive threshold on cortical irregular spike activity. *IEEE 23th Signal Processing and Communications Applications, SIU 2015, Malatya, Turkey 2015*.
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- [17] M. Ali Ozsoy, M. Ozer, M. Uzuntarla. Effects of noise and synaptic coupling on neuronal network synchronization. *BIYOMUT 2007, 139-143, Istanbul, Turkey, 2007.*
- [18] M. Uzuntarla, M. Ozer. Effect of subthreshold fluctuations of membrane potential on the firing threshold of neuron. *BIYOMUT 2007, 134-138, Istanbul, Turkey, 2007.*
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- [23] M. Uzuntarla, M. Ozer. Anticipated synchronization in neuronal communication. *ELECO 2006, 201-204, Bursa, Turkey, 2006.*
- [24] M. Uzuntarla, M. Ozer. Effect of intrinsic noise characteristics on the neuronal dynamics. *ELECO 2006, 205-208, Bursa, Turkey, 2006.*
- [25] M. Uzuntarla, M. Ozer. Synchronization between neuronal spiking activity and subthreshold periodic stimulus for two different noise models. *5th National Neuroscience Congress, Zonguldak, Turkey, 2006.*

COLLABORATORS

- **Joaquin J. Torres Agudo**, Granada University, Department of Electromagnetism and Matter Physics, Granada, Spain.
- **Ernest Barreto**, George Mason University, Krasnow Institute for Advanced Studies, VA, USA.
- **Alexandre Wagemakers**, University of Rey Juan Carlos, Department of Physics, Madrid, Spain.
- **Matjaz Perc**, University of Maribor, Faculty of Natural Sciences and Mathematics, Maribor, Slovenia.
- **Philipp Hovel**, Berlin Technical University, Department of Theoretical Physics, Berlin, Germany.

TEACHING

Bulent Ecevit University, Department of Biomedical Engineering

- *Thought Courses*: Electronics, Electronic Circuits, Logic Circuits, Biomedical Instrumentation, Bioelectricity, Mathematical Physiology, Microprocessors/Microcontrollers, Semiconductor Physics

Granada University, Department of Electromagnetism and Matter Physics, Granada, Spain, Dec 3-7, 2012

- *Lectures*: Complex Network Models
- Guest Lecturer-Erasmus Mundus Teaching Staff Mobility

Ghent University, Department of Data Analysis, Ghent, Belgium, March 25-29, 2013

- *Lectures*: Complex Neural Networks
- Guest Lecturer-Erasmus Mundus Teaching Staff Mobility

Granada University, Department of Electromagnetism and Matter Physics, Granada, Spain, September 16-20, 2013

- *Lectures*: Short-Term Synaptic Plasticity
- Guest Lecturer-Erasmus Mundus Teaching Staff Mobility

University of Rey Juan Carlos, Department of Physics, Madrid, Spain, January 20-24, 2014

- *Lectures*: Computational Neuroscience
- Guest Lecturer-Erasmus Mundus Teaching Staff Mobility

Technical University Berlin, Institut für Theoretische Physik, Berlin, Germany, February 9-20, 2015; April 10-18, 2017.

- *Lectures*: Vibrational Resonance
- Guest Lecturer-Erasmus Mundus Teaching Staff Mobility