Zekeriya SARI

Cirruculum Vitae

Education

2008–2013 **BSc**, *Dokuz Eylül University, Department of Electrical and Electronics Engineering*, İzmir, Degree: *3.38/4.0*.
Thesis: *Attack on chaos-based random number generator*

2014–2016 **MSc**, *Dokuz Eylül University, Institute of Natural and Applied Sciences*, İzmir, Degree: *4.0/4.0*.
Thesis: *Secure communication via cluster synchronization of chaotic systems*

2016– **Phd**, *Dokuz Eylül University, Institute of Natural and Applied Sciences*, İzmir, Degree: *4.0/4.0*.
Thesis: *Design and Optimization of Clustered Synchronization Systems*

Experience

06.2014– **Dokuz Eylül University**, *Department of Electrical and Electronics Engineering*, İzmir.
I have been working as a research assistant in the department of electrical and electronics engineering.

Research Interests

- Network dynamics
- Fractal geometry
- Chaotic systems
- High performance computing
- Network synchronization
- Optimization

Publications

Journal Articles

- Aldemir, E., Özdemir, H., Sarı, Z. (2019). An improved gray line profile method to inspect the warp–weft density of fabrics. The Journal of The Textile Institute, 110(1), 105-116.
- Sarı, Z., Günel, S. (2021). A novel Julia based system description language and simulation environment: JuSDL. Pamukkale University Journal of Engineering Sciences, 27(2), 234-243. (*In Turkish*)

Conference Proceedings

- Sarı Z., Gunel, S. (2016). Secure Communication via Cluster Synchronization of Chaotic Systems. IEICE Proceedings Series, 48(A4L-G-1).
- Sarı, Z., Çek, M. E. (2017, May). Detection of antipodal and biorthogonal chirp signals in Laplacian noise. In 2017 25th Signal Processing and Communications Applications Conference (SIU) (pp. 1-4). IEEE. (*In Turkish*)

Adatepe District, Doğuş Street, No: 207-I – 35390 İzmir – TURKEY
+90 (534) 859 98 22 • *+90 (232) 301 76 93*
zekeriya.sari@deu.edu.tr • *zekeriyasari*

- Sarı, Z., Kalender, G., Günel, S. (2019, November). Fractal Interpolation and Integration over Two-Dimensional Triangular Meshes. In Journal of Physics: Conference Series (Vol. 1391, No. 1, p. 012143). IOP Publishing.

Talks

- Jusdl.jl - Julia Based System Description Language, JuliaCon, 2020.

Projects

2020–2022 **Design and optimization of clustered synchronization systems**, *Dokuz Eylül University*, Department of Scientific Research Projects, Research Project.
Role: Researcher

Computer Skills

Linux	*Advanced*	Mathmematica	*Experienced*	Apache	*Experienced*
C	*Advanced*	Modelica	*Experienced*	MySQL	*Experienced*
C++	*Experienced*	LaTeX	*Advanced*	HTML	*Experienced*
Python	*Advanced*	Git	*Advanced*	CSS	*Experienced*
Julia	*Advanced*	Subversion	*Experienced*	LDAP	*Experienced*
Matlab	*Advanced*	SPICE	*Advanced*		

Foreign Language

English Advanced *Reading, writing and speech*

Seminars and Courses

2017 International Graduate School on Control orgnanized by European Embedded Control Institute in İstanbul Turkey.

Assisted Courses

- Introduction to Programming
- Algorithms and Programming
- Circuit Theory
- Digital Electronics
- Semiconductor Devices
- Energy Conversion
- Microprocessor Systems
- Computer System Simulations and Design
- Artificial Neural Networks

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