ZAINAB ARAM

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EDUCATION

AmirKabir University of Technology, Tehran, Iran
• M.Sc. in Biomedical Engineering 2014-Oct 2016 GPA: 18.85/20
• Concentration: Chaotic and Dynamic Systems Modeling

University of Tehran, Tehran, Iran
• B.Sc. in Electrical Engineering 2008-July 2013 GPA: 15.47/20
• Concentration: Biomedical Engineering

Farzanegan Tehran High, Middle High school, Affiliated with the National Organization for 2004-2008 the Development of Exceptional Talents (NODET)

ACADEMIC & RESEARCH EXPERIENCE

Dynamics of Complex Systems and Networks Laboratory Fall 2014-2016
- Modeling memory using chaotic maps and Neural Networks
- Modeling HIV growth in human body using dynamical systems and

Bioengineering Lab, University of Tehran, Tehran, Iran Fall 2012-2014
- Mathematical modeling of the heart rate variability signals
- Generating databases of heart rate variability signals using the produced model, and distinguishing the real database from the synthetic one

Medical instrumentation Lab, University of Tehran, Tehran, Iran 2012-Spring 2013
- Creating a virtual keyboard using EOG, detecting the letter the person was looking at and confirming and typing that by detecting the interfering signal of their teeth clenching
- experimenting with different medical instruments including EEG, ECG, and EMG, and observing the effects of different stimulations on bio-signals.

Iranian Society of Radiology 2012-Spring 2013
- designing a program which evaluated the compatibility of radiology reports with the standard radiology lexicon (RadLex), assembled by Radiological Society of North America (RSNA).
- Improve the previous program to suggest an equivalent for the wrong word by finding its synonym in RADLex.

PUBLICATIONS

• **Z. Aram**, S. Jafari, J. Ma, J. C. Sprott, S. Zendehrouh, and V.-T. Pham, "Using chaotic artificial neural networks to model memory in the brain," Commun. Nonlinear Sci. Numer. Simul., vol. 44, pp. 449–459, 2017.

• S. Panahi, **Z. Aram**, S. Jafari, J. Ma, and J. C. Sprott, "Modeling of epilepsy based on chaotic artificial neural networks," Chaos Solitons Fractals, vol. 105, pp. 150–156, 2017.

• S. Panahi, **Z. Aram**, S. Jafari, V.-T. Pham, C. Volos, and K. Rajagopal, "A new transiently chaotic flow with ellipsoid equilibria," Pramana - J Phys, vol. 90, no. 3, 2018.

• **Z. Aram**, S.K. Setarehdan. R-R interval simulation based on power spectrum curve fitting. Accepted for oral presentation at 20th Iranian Conference on Biomedical Engineering, Tehran, Iran, Dec. 2013

Work Experience

Wekala.com, Irarazi Co., Chief Operating Officer, Co-Founder, Tehran, Iran Feb 2018-Feb 2020 Wekala was a website in Iran that arranged orders from international retail websites and deliver them in Iran to the customers.

- Supervising different teams
- Designing and managing a tracking and follow-up system for external (customer) and internal reference
- Managing the Logistics and operations for orders purchase and transport
- Managing employees in non-local offices (based in other countries)
- Handling the financial transactions and goods transportations to avoid sanctions against Iran

Nikoo Salamat Nasl Sabz, Commercial Coordinator, Tehran, Iran Sep 2016-Feb 2018

- Managing orders from the inquiries, quotations, arranging shipments and Custom clearance
- Recruiting efficient employees for operations and logistics department.
- Handling the correspondence related to the procurement

Arman Asr Salamat, Technical Supervisor and Procurement, Tehran Sep 2015-Feb 2016

- Acting as the Technical Supervisor with official certificate of MoH for biomedical equipment imports
- Negotiating and holding meetings with different foreign biomedical production companies
- Handling the correspondence for the procurement
- Follow up for receiving necessary licenses from MoH for importing the goods
- Arrangement of transportation and Custom Clearance for orders

Teaching in Roshangar high school 2010-2011• Teaching English, for 1.5 years in Roshangar high school

Skills

• **General:**
MS Office, Adobe PhotoShop, Adobe Illustrator, Trello,

• **Programming:**
Application Packages: MATLAB, Simulink, OrCad, HSpice, Quartus II, ModelSim
Programming Languages: C, C++(Familiar)

• **Languages**
Persian (Native)
English (Fluent) • TOEFL IBT Score: 113/120