Gholamreza Ilkhani

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Gender: Male
Nationality: Iranian
Marital Status: Single
Date of birth: 8/12/1982

Educations

Ph.D. - Bogazici University, Turkey Feb 2012 - March 2018
Mechanical Engineering

- Thesis Title: **Creating multi-touch haptic feedback on an electrostatic tactile display**,
  Advisor: Dr. Evren Samur

M.Sc. - Sharif University of Technology, Iran Sep 2007 - Sep 2010
Mechatronic Engineering

- Thesis Title: **A structural health monitoring system for storage tanks by using fiber optic sensors**,
  Advisor: Dr. Abolgassem Zabihollah

B.Sc. - Azad University of Tabriz, Iran Sep 2001 - Sep 2006
Mechanical Engineering

- Thesis Title: **Dynamic analysis of car suspension system; half car model**,
  Advisor: Dr. Jafar Ghafouri

Research Interests

- Haptic, Haptic interfaces, Human machine interaction
- Modeling and analysis of mechatronic system
- Surgical robotics, Rehabilitation robotics
- Sensor design and fabrication for surgical tools

Publications

- **Ilkhani, G.**, Samur E. (2018). Creating Multi-touch Haptic Feedback on an Electrostatic Tactile Display *IEEE Haptic Symposium*, San Francisco, California
- **Ilkhani, G.**, Aziziaghdam M., Samur E. (2017). Data-driven Haptic Rendering on a Tactile Display. *International Journal of Human Computer Interaction*, Accepted Author Version Posted Online 27 Jan 2017, Taylor&Francis
- Alma .U. A., **Ilkhani, G.**, Samur E. (2016). On Generation of Active Feedback With Electrostatic Attraction. *Eurohaptics Conference*, London, England.

- **Ilkhani, G.**, Aziziaghdam M., Samur E. (2015). Creating Localized Haptic Feedback on a Tactile Display Using Electrostatic Attraction. *World Haptic Conference-Work in Progress Paper*, Chicago, USA.

- **Ilkhani, G.**, Aziziaghdam M., Samur E. (2014). Data-driven Texture Rendering with Electrostatic Attraction. *Eurohaptics Conference*, Versailles, France.

- **Ilkhani, G.**, Zabihollah A. (2011). A Computational Model for Health Monitoring of Storage Tanks by Using Fiber Bragg Grating Optical Fiber. *Journal of Civil Structural Health Monitoring (JCSHM), Volume 1, Issue 3-4, pp 97-102*, Springer

- **Ilkhani, G.**, Takht Abnousi M. (2012).An Overview of Fiber Optic Sensor and Its Industrial Application. *1st National Conference on Iran Aircraft Structural integrity program*, Sharif University of Technology ,Tehran, Iran

- **Ilkhani, G.**, Zabihollah A. (2011). A Structural Health Monitoring System for Storage Tanks by Using Fiber Optic Sensor. *14th International Oil, Gas and Petrochemical Congress*, Tehran, Iran

- **Ilkhani, G.**, Zabihollah A. (2010). A Structural Health Monitoring System for Storage Tanks by Using Fiber Optic Sensor. *4th National Conference on Condition Monitoring and Fault Diagnosis*, Sharif University of Technology ,Tehran, Iran

Work and Teaching Experience

Assitant professor, Sep 2018 - Present
Mechanical Engineering Department, Istanbul Aydin UNiversity, Istanbul, Turkey

Post-doctoral Fellow, May 2018 - Sep 2018
Robotics and Mechatronics Laboratory, Koc University, Istanbul, Turkey

Research Assistant, Feb 2014 - Dec 2018
Haptics and Robotics Laboratory , Bogazici University, Istanbul, Turkey

- Design, fabrication and evaluation of various mechatronic devices.

- Consulting on design and microfabrication technique.

Lecturer, Sep 2011 - Jan 2012
Azad University of Shabestar , Iran

- Delivered lectures on Strength of Materials (Static).

Teaching Assistant, Sep 2008 - Sep 2009
Sharif University of Technology, Iran

- Organized several tutorials, gave quizzes, graded reports and delivered lectures on Strength of Materials (Static).

Internship, June 2006 - Sep 2006
Tractor manufacturing company, Tabriz, Iran

- Quality control of items used in production line

Skills

Computer Skills:

- LabVIEW, Proteus, SPSS, Microsoft Office, Inkscape, LaTex
- Tanner L-Edit, SolidWorks, Autocad, Comsol Electrostatic Analysis

Hardware and Software Programming Languages:

- MATLAB, Various NI DAQ systems, Arduino, PLC (Logo,S7)

Cleanroom Experience:

- Thermal Evaporation Technique, Photolithography, Wet and Dry Etching, 3D Printing

Major Courses Taken

Robotics- Advance dynamic - Advance control- Mechatronics - Applications of MEMS

Honors

- **Research Fellowship**, The Scientific and Technological Council of Turkey (TUBITAK). Feb 2014 - Sep 2017
- **Bursarship**, Bogazici University scholarship office. June 2013 - Dec 2013
- **M.Sc. Thesis**, Funded by Pars oil and gas company-Biggest company active in the area of oil and gas in Iran

Presentations

- **Referee**, Eurohaptics Conference, 2014, 2018
- **Referee**, IEEE Haptic Symposium, 2017

Synergistic Activities

- **Electrostatic Tactile Displays,** Half-day Panel Workshop (Organizer and Presenter), IEEE World Haptics 2017, June 6, Furstenfeldbruck (Munich), Germany
- **Cross-Cutting Challenge**, Haptic dimensions of surfaces, IEEE Haptic Symposium 2018, March 25-28, San Francisco, California, USA

Languages and Personal Interests

Languages:

- English, Farsi, Azeri, Turkish

Sports:

- Volleyball, Swimming

Others:

- Graphic Design, Photography, Social Activities, Reading Books

MEMBERSHIP

- Student member IEEE
- Technical committee on haptics
- Eurohaptics society
- Member of ISHMII(International Society for Structural Health Monitoring of Intelligent Infrastructure)
- Member of Sharif University of Technology alumni association