

Mani Tajaddini

Contact

Address

Aksu Asiyani Evleri, No. 10/11,
1539. Str, Isci Bloklar, Ankara,
Turkey
Ankara, 06, 06530

Phone

+90-531-5857440

E-mail

mtajaddini@gmail.com
mani.tajaddini@metu.edu.tr

Skills

Data Analysis (R, Python,
Haskell, etc.)

Excellent

Machine/Deep Learning
(Keras, Tensorflow, Nengo,
etc.)

Excellent

Eye-Tracking (EyeTribe, Tobii,
EyeLink)

Excellent

User Interface Design
(React/Redux, Elm,
Functional Reactive
Programming, etc.)

Excellent

Education

2015 – 2018

Master of Science: Cognitive Science

Middle East Technical University - Turkey, Ankara

- Graduated with 4.0 GPA
- Thesis: Recurrence Quantification Analysis of Group Eye-Tracking Data

2009 – 2014

Bachelor of Science: Mechanical Engineering

University of Tabriz - Iran, Tabriz

Research Interests

- Dynamics of Brain-Body-Environment interaction (e.g., eye-hand coordination, group gaze coordination, etc.)
- Human-Robot interaction
- Eye-Tracking and visual attention
- Machine learning and rigorous mathematical methods to model dynamical systems
- Modeling human cognition using Symbolic (e.g., Act-R), Connectionist (e.g., Neural Networks, Nengo, etc.) and Dynamical Systems approaches
- Collective behavior (e.g., collective search, collective decision-making)
- Development and application of non-linear analysis methods for devising measures on social, psychological and cognitive phenomena (e.g., recurrence quantification analysis)
- Quantifying emergent patterns in complex systems

Research Experience

M.Sc. project:

Title: "Non-linear analysis of Eye-Tracking data for group search"
Supervisor: Cengiz Acarturk (Associate Professor, Middle East Technical University)

B.Sc. project:

Title: "An Experimental Study on the Cavitation Phenomenon in a Centrifugal Pump by using Image Processing Techniques"

Experiment Design

Excellent

Category Theory &
Functional Programming

Excellent

Object-Oriented
Programming

Very Good

Programming and Software

R

Excellent

Python (Numpy, Pandas,
Keras, Tensorflow, etc.)

Very Good

JavaScript (Nodejs,
React/Redux, Vue, etc.)

Excellent

Haskell

Excellent

LISP (Scheme, Common Lisp,
Racket,
Clojure/Clojurescript)

Very Good

MATLAB

Very Good

Java

Supervisor: Mohammad T. Shervani-Tabar, Ph.D. (Professor, University of Tabriz)

Publications

Tajaddini, M., Acarturk, C., Recurrence Quantification Analysis of Group Eye-Tracking Data
Getting ready to submit

Professional Training

Workshop

Festo Pneumatic S.K., No.2, 6th St., 16th Ave. km8 Karaj Special Road, Tehran, Iran.

Basic Programming of PLCs-PLC211

From 14 till 17 July 2012

The following subject matter was covered in this course:

- Basic design of SIMATIC S7 control system with S7300 hardware
- Input and output module tasks
- The three programming languages: FBD, LDR and STL
- Basic command set for SIMATIC S7
- Creating, loading and testing simple programs
- PLC timers and counters
- Archiving and retrieving PLC programs
- The participant is capable of writing simple digital programs using Organization Block and meets the requirements for higher PLC levels

Festo Pneumatic S.K., No.2, 6th St., 16th Ave. km8 Karaj Special Road, Tehran, Iran.

Modern industrial pneumatics – PN111

4 days ending 19 July 2012

Festo Pneumatic S.K., No.2, 6th St., 16th Ave. km8 Karaj Special Road, Tehran, Iran.

Advanced Hydraulics H522

From 7 till 10 July 2012

Extra-Curricular

- Advanced Piano Player

Good

C/C++



Average

Rust



Average

Languages

Persian



Native

Azerbaijani



Native

English



Superior

Turkish



Superior

German



Advanced

- Teaching Piano and Music Theory for beginners
- Stage performance

References

Dr. Cengiz Acarturk, [Associate Professor] (Supervisor)

Department of Cognitive Sciences

Middle East Technical University

Ankara, TURKEY.

Phone: +90 (312) 210 7704

Email: acarturk@metu.edu.tr

Dr. Cem Bozsahin, [Professor]

Department of Cognitive Sciences

Middle East Technical University

Ankara, TURKEY.

Phone: +90 (312) 210 7758

Email: bozsahin@metu.edu.tr

Dr. Murat Perit Cakir, [Assistant Professor]

Department of Cognitive Sciences

Middle East Technical University

Ankara, TURKEY.

Phone: +90 (312) 210 7706

Email: perit@metu.edu.tr

Dr. Umut Ozge, [Assistant Professor]

Department of Cognitive Sciences

Middle East Technical University

Ankara, TURKEY.

Phone: +90 (530) 142-6850

Email: umozge@metu.edu.tr