Mojgan Hashemian

CONTACT INFORMATION

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EDUCATION

- **PhD Student in Information Systems and Computer Engineering,** Instituto Superior Tecnico, University of Lisbon, Lisbon, Portugal, *2016 - Current*
  - **Thesis Title:** *"Virtual Characters with Believable Social Dynamics",* Adviser Dr. Ana Paiva, Dr. Rui Prada, Co-Adviser Dr. Pedro Santos.
- **M.Sc. in Computer Engineering - Artificial Intelligence and Robotics,** School of Electrical and Computer Engineering, University of Tehran, Tehran, Iran, *2011 - 2014*
  - **Thesis Title:** *"Automatic Extraction of Users' Mood States while Working with Computers",* Adviser Dr. Hadi Moradi, Co-Adviser Dr. Maryam S. Mirian, Consultant Dr. Mehdi Tehrani-doost.
- **B.Sc. in Computer Engineering - Hardware,** School of Computer Engineering, Iran University of Science & Technology, Tehran, Iran, *2005 - 2010*
  - **Thesis Title:** *"Extending the Neocognitron Neural Network to Complex Space",* Under Supervision of Dr. Nasser Mozayani.

RESEARCH INTERESTS

Social Robotics, Human-Robot Interaction, Socially Intelligent Agents, Affective Computing, Intelligent Games.

AWARDS & HONORS

- **H2020-ICT-21-2014** Fellowship, Grant No. 644187 RAGE (Realising an Applied Gaming Eco-system).
- **Top 0.3%** of Iran's Nationwide University Entrance Exam for Graduate Students. 72th rank among nearly 20,000 participants, 2010.
- **Top 0.6%** of Iran's Nationwide University Entrance Exam for Undergraduate Students, among nearly 340,000 participants, 2005.

PUBLICATIONS

- **Conference**
  - **M. Hashemian**, R.Prada, P. A. Santos, S. Mascarenhas, *Enhancing Believability of Virtual Agents using Social Power Dynamics*, In ACM International Conference on Intelligent Virtual Agents (IVA), 2018 (Link).
  - **M. Hashemian**, H.Moradi, M. S. Mirian, M. Tehrani-doost, *Determining mood via emotions observed in face by induction.* In Robotics and Mechatronics (ICRoM), 2014 Second RSI/ISM International Conference on (pp. 717-722). IEEE. (Link).
  - **M. Hashemian**, H.Moradi, M. S. Mirian, M. Tehrani-doost, A. Nikoukaran, *Determining Mood using Emotional Features*, in 7th International Symposium on Telecommunications (pp. 418-423), Tehran, Iran, September 2014. (Link).

- **Book Chapter**
  - R. B. Paradeda, **M. Hashemian**, R. A. Rodrigues, A. Paiva, *"How Facial Expressions and Small Talk May Influence Trust in a Robot"*, 8th International Conference on Social Robotics, November 2016, Kansas City, USA, November 2016. Springer International Publishing (pp.169-178). (Link).
  - **M. Hashemian**, H.Moradi, M. S. Mirian, *"How is his/her Mood?: A question that a Companion Robot may be able to answer"*, 8th International Conference on Social Robotics, November 2016, Kansas City, USA, November 2016. Springer International Publishing (pp.274-284). (Link).
  - **M. Hashemian**, H.Moradi, M. S. Mirian, M. Tehrani-doost, R. K. Ward, *Is the Mood really in the Eye of Beholder?*, 17th International Conference on Human-Computer Interaction, Los Angeles, CA, USA, August 2015. Springer International Publishing (pp. 712-717). (Link).

- **Abstracts**
  - R. B. Paradeda, **M. Hashemian**, C. Guerra, R. Prada, J. Dias, A. Paiva, *FIDES: How Emotions and Small Talks May Influence Trust in an Embodied vs. Non-embodied Robot*, in 16th International Conference on Autonomous Agents and Multiagent Systems (AAMAS2017), Brazil, May 2017, (Link).
  - R. B. Paradeda, **M. Hashemian**, R. A. Rodrigues, A. Paiva, *The FIDES: How facial expression may influence the trust in a robot?*, in RO-MAN: The 25TH IEEE International Symposium on Robot and Human Interactive Communication, New York, August 2016, (Link).
  - A. Nadi, **M. Hashemian**, H.Moradi, M. S. Mirian, *Human mood detection using eye tracking.* In in 4th Basic and Clinical Neuroscience Congress, (BCNC 2015), Tehran, Iran, December 2015, (Link).
  - **M. Hashemian**, H.Moradi, M. S. Mirian, M. Tehrani-doost, N. Mahmoudyar, *Recognizing Mood using Facial Emotional Features*, in 3rd Basic and Clinical Neuroscience Congress, (BCNC 2014), Tehran, Iran, October 2014, (Link).

- **Papers in Hand**
  - **Mojgan Hashemian**, Samuel Mascarenhas, Ana Paiva, *Empowering Social Robots using Social Power Dynamics.*
  - Raul Paradeda, **Mojgan Hashemian**, Carla Guerra, Rui prada, Joao Dias, Ana Paiva, *What Makes us Trust in Robots? An Approach to Evaluate Factors that may Influence the Trustworthiness of a Robot* .
  - **M. Hashemian**, H.Moradi, M. S. Mirian, M. Tehrani-doost, N. Mahmoudyar, *Recognizing Mood using Facial Emotional Features.*
  - **M. Hashemian**, Rui Prada, Pedro Santos, Joao Dias, Samuel Mascarenhas, *Emotion Recognition from Touching Patterns.*

Selected Academic Projects

- **Graduate Projects**
  - **An approach to Emotion Recognition using Touching Patterns in Games**, Affective Computing Course. Fall 2016.
  - **Towards More Socially Intelligent Agent using Social Power Dynamics**, Artificial Life Course. Spring 2016.

- **FIDES: How facial expression may influence the trust in a robot?**, Social Robotics and Human Robot Interaction Course. Fall 2015.
- **Automatic Extraction of User's Mood State**, M.Sc. Thesis for Graduation in Artificial Intelligence and Robotics, Summer 2014.
- **Automatic Extraction of Users' Mood States Using Keystroke and Mouse Movements in an Intelligent Tutoring System**, M.Sc. Seminar Report, Fall 2013.
- **Population Growth and Cooperation Dynamics in Evolutionary Game Theory**, Social Networks Course Project, Spring 2012.
- **The effect of Belief on Decision Making**, Machine Learning Course Project, Fall 2011.

- **Undergraduate Projects**
  - **Extending the Neocognitron Neural Network to Complex Space**, B.Sc. Thesis for Graduation in Computer Hardware Engineering, Summer 2010.
  - **Simulating a Cache Server**, Computer Networks course Project, Spring 2010.
  - **Implementing MIPS on FPGA**, Computer Aided Design course project, Fall 2008.

Professional Experience

- **Researcher, GAIPS INESC-ID,** Lisbon, Portugal. Since September 2015 - Current.
- **Java Developer, FANAP,** Tehran, Iran. January 2015 - Agust 2015.
- **Researcher, Advanced Robotics and Intelligent Systems Lab,** University of Tehran, Tehran, Iran. Since June 2012 - 2016.
- **Researcher, Cognitive Science and Technologies Council,** Tehran, Iran. October - December 2014.
- **Guest Lecturer, Asre Dino Danesh (ADD University),** Tehran, Iran, 2013 - 2014.
  Teaching Courses:
  - Web-Based Programming, Winter 2013.
  - Data Structure, Winter 2013.
  - Information Technology in Organizations, Summer 2014.
- **Teaching Assistant, University of Tehran (ECE Department),** Tehran, Iran, 2011 - 2013.
  Courses:
  - Social Networks (Graduate), Fall 2012.
  - Introduction to Computer Systems and Programming, Fall 2011, 2012, 2013.
  - Introduction to E-Learning, Spring 2013.
- **Teaching Assistant, Instituto Superior Tecnico (DEIC Department),** Lisbon, Portugal, 2017 - 2018.
  Course:
  - Autonomous Agents and Multi-Agent Systems, Spring 2018.

Computer Skills

- **Programming Languages:** Java, Matlab, C/C++, C#.
  Logic (PROLOG), Hardware Description Language (Verilog, VHDL), Web (HTML, PHP, JavaScript), Database (MySQL, Oracle).
- **Academic Software Packages:** Weka, Clementine, SPSS, Elan (Multimedia Annotation Tool), Netlogo, Gephi, Webots (Robotic Simulator).

Language Skills

- **Persian:** Native.
- **English:** Fluent.
  - IELTS Score: Overall 7 (Listening 7, Reading 7, Writing 7, Speaking 7)
- **Portuguese:** Intermediate (B2 Level).
- **Arabic:** Familiar.

References

- **Dr. Hadi Moradi**, Associate Professor, School of Electrical and Computer engineering, University of Tehran. *E-mail:* moradih@ut.ac.ir
- **Dr. Maryam S. Mirian**, Machine learning Research Scientist, University of British Columbia, Vancouver, BC. *E-mail:* mmirian@ut.ac.ir
- **Dr. Ana Paiva**, Full Professor in the Department of Computer Science and Engineering of IST, University of Lisbon. *E-mail:* ana.paiva@inesc-id.pt

Hobbies

Hiking, Traveling, Reading, Listening to Music, Watching Movies, Live Theatre.

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