

Sara RANJBARAN

PERSONAL DATA

DATE OF BIRTH: Iran | 22 Septembre 1988
ADDRESS: [Aalto University](#), Finland
EMAIL: sara.ranjbaran@aalto.fi

EDUCATION AND ACADEMIC ACTIVITY

- SEPTEMBER 2019 Researcher
Eurecom, Institute , France
- JUNE 2018 Visiting Scholar Researcher
University of Cagliari, Italy
Supervisor: [Prof. Michele Nitti and Luigi Atzori](#)
- OCTOBER 2015 Senior Researcher in COMPUTER ENGINEERING, ARTIFICIAL INTELLIGENCE
Isfahan University of Technology, Iran
Recognized as Gifted Student and Granted Gifted Student Award
- SEPTEMBER 2014 Master of Science in COMPUTER ENGINEERING ARTIFICIAL INTELLIGENCE
Isfahan University of Technology, Iran
Thesis: “Investigating IoT’s Elements Interaction in Order to Improve Quality of Services ”
[Thesis abstract](#).
Supervisor: [Prof. M. Hossein MANSHAEI](#), Advisor : [Prof. Faramarz Hendessi](#)
First Class Honours
Selected as Talented Student
Directly admitted to graduate school for outstanding undergraduate student
GPA: 19.43/20 | [Detailed List of Courses](#)
- DECEMBER 2012 Bachelor of Information Technology, **Hamedan University of Technology**, Iran
Thesis: “Investigation of performance and Architecture of search engines”
Supervisor: [Prof. Hassan KHOTANLOU](#)
Top 5% among under graduate student in IT department
Selected as Talented Student
GPA: 16.89/20 LAST TWO YEAR GPA: 18.86/20 | [Detailed List of Courses](#)
- JUNE 2007 Diploma, Mathematics and Physics Discipline **Fateme Talents High School**, Iran
Graduated with First Class Honors
GPA: 19.41/20

RESEARCH INTERESTS

- IOT and Networked Embedded Systems
- Edge and fog computing
- Game Theory and Mechanism Design
- Artificial Intelligence and behavioral Analysis
- Complex and MultiAgent Systems
- Computer Networks and Network Security

PUBLICATIONS

Accepted

- Sara Ranjbaran, Mohammad Hossein Manshaei, and Michele Nitti. "A Social-Aware Approach for Federated IoT-Mobile Cloud using Matching Theory." 2019 IEEE 5th World Forum on Internet of Things (WF-IoT). IEEE, 2019.
- Sara Ranjbaran, Amin Mohammadi, and Mohammad Hossein Manshaei. "On cooperation mechanism in internet of things with multiple sponsors." 2016 IEEE Globecom Workshops (GC Wkshps). IEEE, 2016.

Submitted

- H. P. Hsu, Osama Arouk, Ray-Guang Cheng Sara Ranjbaran "5G Networks: Towards Cloud-Native applications", IEEE International Conference on Communications ,Dublin, Ireland, 2020

Paper In Preparation

- Sara Ranjbaran and Michele Nitti, "A social aware approach for IoT element Cooperation."
- Sara Ranjbaran, Mohammad Hossein Manshaei and Hedayat Zarkoob, "Let's Play a Game During the Exam: A novel Game Theoretical Approach in Educational Evaluation."

TEACHING EXPERIENCE

- Teaching Assistant for "Multi-agent Systems", Fall 2016, Dr. M. H. Manshaei, Isfahan University of Technology
- Lecturer of "Data Base" Spring 2016, Isfahan University of Technology
- Lecturer of "Introduction to Information echnology" Spring 2017, Isfahan University of Technology
- Teaching Assistant for "Game Theory", Spring 2014,(Since spring 2013) Dr. M.H. Manshei, Isfahan University of Technology.
- Teaching Assistant for "IT Engineering ", Fall 2015,(since fall 2012) Dr. M.H. Manshei, Isfahan University of Technology.
- Lab Instructor of "Data Base" Spring 2016, Isfahan University of Technology
- Lab Instructor of "Computer Networks" Fall 2015, Isfahan University of Technology
- Lab Instructor of "Operating System" Spring 2014, Hamedan University of Technology
- Teaching Assistant for "Data Base Lab" fall 2013, Isfahan University of Technology

RESEARCH EXPERIENCE

- **Researcher Assistant in Software Group** Avionic Research Department, Isfahan 2013
Supervisor: Dr. M.H. Manshaei
- **A Novel Game-Theoretical Approach in Educational Evaluation** as MSc. Final Project, Isfahan University of Technology, Summer 2014
Supervisor: Dr. M.H Manshaei, Advisor: Dr. F.Hendessi

- **Investigation of performance and Architecture of search engines** as BSc. Final Project, Hamedan university of Technology, fall 2012 **Supervisor: Dr. H. Khotanlou**

SELECTED COURSE PROJECTS

- Study and Implementation of "Error control for Video Streaming". Simulation Error concealment in Multimedia network, Internship, Dr.Nassiri **BASU** , 2010.
- Presented a comprehensive survey on "Game Theory Meet Wireless sensor Networks", Course Project of Networked Embedded Systems, **Dr. M. Nabi** , **IUT**, Spring 2015.
- Presented a implementing on "New Concept base Algorithm for Text Summarization in Medical Domain", Dr. Ghadiri, **IUT**, Spring 2015
- Simulated and comprehensive survey on "Logarithmic Learning on Redial Based Functions Using MATLAB M-file" Course project of Neural Networks, Dr. M. Zekri, **IUT**, Spring 2015.
- Presented a comprehensive survey on "Reputation Systems: Trust in Internet Interactions and Game Theory Models". Course Project of "Game Theory" Dr.Manshaei, **IUT**, Spring 2013
- Study and simulation "Internet Protocol Analyzer" (PCAP). Dr.Nassiri **BASU**, Spring 2010.
- Study and simulation "Yahoo Messenger Capture Protocol". Attack on yahoo protocol, Dr.Nassiri, **BASU**, 2011.
- Implementation and develop host based and network base games Course projects of "Multimedia Networks" and "advanced Programming", Dr.Nassiri, **BASU**, 2009 &2010.
- Develop software with RUP methodology for chain store. Course Project of "Software Engineering I &II ", Dr.Bashiri, **HUT**, 2010.
- Design graphical software (Computer Graphic Design). Course Project of "Computer Graphic" Dr.Dezfoulian, **BASU**, 2010.
- Research and simulation "Modeling cancer in fuzzy systems" Course Project of "Fuzzy Systems" Dr.Ghadiri, **IUT**, 2012

LANGUAGES

PERSIAN: Native
 ENGLISH: Conversationally fluent
 ARABIC: Basic Knowledge

COMPUTER SKILLS

Programming: C++, PYTHON, R, JAVA, MATLAB, PHP, CSS , JAVA SCRIPT

Tools: LATEX, X CODE R STUDIO MS VISUAL STUDIO, GAME MAKER, GAMS,
 CISCO PACKET TRACER , textscSQL-Server LINUX,RATIONAL ROSE

EXTRACURRICULAR ACTIVITIES

Playing Setar (old Iranian musical instrument)
 Hiking

Poem
Runing

REFERENCES

- [Dr. Majid Nabi](#)
Assistant Professor
Electrical Engineering Department
Eindhoven University of Technology
email: m.nabi@tue.nl
- [Dr. Mohammad Hossein Manshaei](#)
Assistant Professor
Electrical and Computer Engineering
Department
Isfahan University of Technology
email : manshaei@cc.iut.ac.ir
- [Dr. Mohammad Nassiri](#)
Assistant Professor
Computer Engineering Department
Buali Sina University
email: m.nassiri@basu.ac.ir
- [Dr. Hassan Bashiri](#)
Assistant Professor
Computer Engineering Department
Hamedan University of Technology
email: bashiri@hut.ac.ir

Master of Science in ARTIFICIAL INTELLIGENCE

Grades

COURSE	GRADE	GRADE POINTS
Foundations of Game Theory for Electrical and Computer Engineering	A	20/20
Evolutionary Computing	A	20/20
Fuzzy Systems	A	19.4/20
Advanced Computer Networks	A	19.67/20
Expert Systems	A	19/20
Statistical Pattern Recognition	A-	18.1/20
Final Thesis	A	19.4/20
	GPA	19.43

bachelor of science in INFORMATION TECHNOLOGY

Grades

SELECTED COURSE	GRADE	GRADE POINTS
IT Engineering II	A	20/20
IT Engineering I	A	19/20
Computer Networks II	A	19.5/20
Intelligence Information Retrieval	A-	18.5/20
Fuzzy Logic	A-	18/5
Electronic Commerce	A-	18/20
Final Thesis	A	20/20
