



Seyed Mohammad Hosseini

Instituto De Telecomunicacoes, Aveiro, Portugal

Mail : hosseini@ua.pt

Address : Rua Direita, N52 1 Dt, Aveiro, Portugal

Postal Code : 3810-16 Aveiro

Mobile : +351 914836805

He is a researcher in the department of the Information Technology, University of Aveiro, Portugal.

Education

2015–2018 **Master of Science**, Institute for Advanced Studies in Basic Sciences, Zanjan, Iran,
Final G.P.A :: 16.37 out of 20 (81.85/100).

1-th student out of 6 students.

2010–2014 **Bachelor of Science**, University of Bojnord, North Khorasan, Iran,
Final G.P.A :: 15.72 out of 20 (78.6/100).

3-th student out of 43 students.

Master Thesis

Title *Novel Approaches for Real-Time Applications in Unmanned Vehicles*

Supervisors *Prof. Peyman Pahlevani*

Description 5-th generation of mobile networks (5G) speeds up the data rate, serves more users, and improves the support for machine-to-machine communication. This Thesis investigates the impact of different communication technologies on the performance of UGVs (Unmanned Ground Vehicle). Specifically, we study the UGV energy consumption and decision time when it replaces the previous generation of cellular networks with 5G. Then, we propose a new test bed to extensively evaluate the performance of state-of-the-art communication technologies as well as 5G using several lab tests.

Publication

Conference **"Design of a Seamless and Decentralised Public Transport Payment System"**, Emanuel Vieira, Paulo C. Bartolomeu, Seyed M. Hosseini, and Joaquim Ferreira, INForum 2019.

Conference **"Self-Sovereign Identity: Use-cases, Technologies, and Challenges for Industrial IoT"**, Paulo C. Bartolomeu, Emanuel Vieira, Seyed M. Hosseini, and Joaquim Ferreira, ETFA2019, IEEE Industrial Electronics Society (IES). 2019.

Conference **"On the Performance Evaluation of UGV Over Cellular Networks"**, S. M. Hosseini, P. Pahlevani, ICEE2018, 26th Iranian Conference on Electrical Engineering. 2018

Conference **"on the performance of SSIM algorithm for black and white picture"**, S. M. Hosseini, P. Pahlevani, 2017, Modern method for insurance pricing and industrial statistics..
2018

Research Experience

2019–2020 **Researcher**, *Embedded System*, Instituto de Telecomunicações, Aveiro, Portugal.
He worked as a researcher on PASSMO:: an open living lab for cooperative ITS and smart regions. The main objective of PASSMO Solutions is the design, implementation in the field and the provision of a support platform for the Intelligent mobility, open to participative experimentation of companies that can effectively collaborate to test (technology) and validate (market) equipment, protocols, processes, applications, standards and services.

2016–2018 **Researcher**, *Next Generation Network Laboratory*, IASBS University, Zanjan, Iran.
He worked as a researcher on Robots, Mobile Generations Networks, and Network Communication Programming in the laboratory and was responsible for the technical team of the laboratory.

Work Experience

2018–2019 **Senior Programmer**, *Zangerine*, Utah, USA.
During his involvement with Zangerine, he worked on ERP, B2B, CMS, and Online web solution programming for Industrial company.

2016–2018 **Senior Programmer and Software Manager**, *D.P.S.M*, Tehran, Iran.
During his involvement with D.P.S.M, he worked as a software development manager, senior programmer and managed a small team of developers. The company operates on online shopping algorithms.

2014–2016 **Senior Programmer and Software Manager**, *Nebucore*, Utah, USA.
During his involvement with NebuCore, he worked on solving various programming challenges, managed a small team of developers, and delivered projects in a timely fashion.

2012–2014 **Senior Programmer**, *Tosa*, North Khorasan, Iran.
During his involvement with Tosa, he worked on solving various programming challenges.

Honors and Awards

Feb-Aug 2019 **Grant awarded under the project PASMO**, *Open Platform for the development and experimentation of mobility solutions, in the group of Embedded Systems and developed in the Institute of Telecommunications - Aveiro, Portugal..*

2016-2018 **Grant awarded under the project OC**, *Online Platform for the development and experimentation of online B2B, CRM, and Online Communication solutions, in the group of OC and developed in the Sepanta Mehr Iranina company - Tehran, Iran .*

Teaching

Teacher **Special topics in programming**, Dec 2017, Mar 2018.

TA **Networks**, Oct 2017, Mar 2017.

TA **Operating Systems**, Mar 2017, Aug 2017.

GTA **Advanced Networks**, Sep 2016, Jan 2017.

Languages

- Persian* Native.
English Advanced Level.
Arabic Intermediate Level.

Programming Skills

- Python* **Advanced**, He has three years of experience with Python. During this time, he has been implemented a software framework for working on robots. The framework, called "pyTameshk", is implemented under three-layer architecture and it is modular.
- C-family* **Advanced**, He has been programming and teaching for several years at various levels. Also, he has done the simulations for the robot tournament in his high school.
- PHP* **Advanced**, For eight years, he has worked with this server-side language. During this period, he has been working professionally for 5 years and has completed various projects from all over the world.

Presentations & Talks

- 2018 **IEEE Conference :: Electrical Engineering (ICEE)**, Mashhad, Iran.
- 2017 **ISC Conference :: Modern Method for Insurance Pricing and Industrial Statistics**, Hamedan, Iran.
- 2017 **Robotics Conference :: Robots, Mobile Generations and the Future of Man**, Zanjan, Iran.

Interests

- Research* Due to the fast changes in computer science in the world, he is interested in research in the new sciences.
- 5G* The new generation of mobile is his favorite. 5G is useful for solving many of the needs of the current world.
- Robotics* The world of robots is very interesting. Robots are things that can act as we want. Robot programming is enjoyable.
- Programming* Programming has a special relaxation for him. It can create things that are in its mind.
- Volleyball* He has played for more than 10 years as a professional player.

References

- Supervisor **Joaquim Ferreira**, *Joaquim Ferreira holds a Ph.D. in Informatics Engineering from the University of Aveiro (2005). Currently, he is an adjunct professor at School of Technology and Management, University of Aveiro and senior researcher at Telecommunications Institute.*, jjcf@av.it.pt.
- Supervisor **Peyman Pahlevani**, *He is an Assistant Professor in the department of Computer Science and Information Technology of Institute for Advanced Studies in Basic Science (IASBS), Iran, pahlevani@iasbs.ac.ir.*