

Curriculum Vitae/Resume

Mohammad Hossein Homaei

Information Technology and Computer Engineering

Head of Wireless Sensor Network Laboratory in Iran(WSNLAB)



Personal Information

Gender: Male
Date of Birth: 10 Jun. 1984
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Education

Fall 2010 B.Sc. in computer engineering, **University of Applied Science and Technology**

Fall 2011 Major: Information Technology,

Thesis: “*Quality of Service and Coverage Optimization in Wireless Sensor Networks*”

Advisor: Eng. Vahid Moghiss

Fall 2010 B.Sc. in computer engineering, **Islamic Azad University of Hamadan Branch**

Fall 2011 Major: Software Engineering,

Thesis: “*A Learning Automata Based Coverage Algorithm for Wireless Sensor Network*”

Advisor: Eng. Vahid Moghiss

Fall 2008 Collage. in computer engineering, **University of Applied Science and Technology**

Fall 2010 Major: Information Technology,

Thesis: “*Introduction, Evaluation and Analysis Covering Different Models in Wireless Sensor Networks.*”

Advisor: Eng. Vahid Moghiss

Honors

- Jan.2008, Member of Iran’s National Foundation of [Elites- Registered Inventor](#)
- Feb.2008, Rank 1 in the National wide Invention Festival Bouali Sina, Hamadan, Iran
- Jul.2008, Rank 1 in the National wide Entrepreneurship Festival University of Ilam, Iran
- Aug.2008, Rank 1 in the National wide Best Idea Festival , Yazd, Iran
- Sep.2008, Rank 2 in the Khwarizmi International Festival & NAJA, Tehran, Iran
- Nov.2008, Rank 1 in the National wide Invention Festival Hamadan, Hamadan, Iran
- Jan.2009, Selected in FINEX 2009, Inventions Exhibition, Tehran, Iran
- Feb.2009, Rank 2 in the Entrepreneurship Festival Buali Sina, Hamadan, Iran
- Apr.2009, Rank 1 in the University of Applied Science and Technology Student's, Iran
- Jan2010, Rank 1 in the National wide Invention & Entrepreneurship Festival Hamadan, Hamadan, Iran
- Jan.2010, Selected in Commercialization FINEX 2010 Tehran, Tehran, Iran
- Nov.2010, Rank 2 in the National wide Invention Festival Hamadan, Hamadan, Iran
- Apr.2011, Selected in the BPJ, Islamic Azad University Student's, Iran
- Oct.2011, Rank 1 University of Applied Science And Technology Association's, Iran
- Jan.2012, Selected in Commercialization & Invention Festival, FINEX 2011 Tehran, Tehran, Iran

Publications

- Feb. 2011 **M.H.Homaei**, V. Moghiss and B.Farhadi, "*Introduction, evaluation and analysis covering different models in wireless sensor networks*" , 3rd National Conference on Computer Engineering and Information Engineering, Iran(CEIT 2011)
- Feb. 2011 **M.H.Homaei**, B. Farhadi and Behzad.Farhadi, "*Importance of scheduling, Adjustable Sensing and Radio range in optimize lifetime of wireless sensor networks.*" , 3rd National Conference on Computer Engineering and Information Engineering, Iran(CEIT 2011)
- Mar. 2012 **M.H.Homaei**, B.Farhadi, " *A Survey of Adhoc and Wireless Sensor Network Simulation Tools*" , International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE)
- Jan. 2012 **M.H.Homaei**, B.Farhadi, " *A Book of Coverage in Wireless Sensor Network*" BPJ Publication Group, Islamic Azad University, Iran

Research Interests

- _ Wireless Sensor Network
- _ Coverage in WSN
- _ QoS and Coverage in WSN
- _ Body Area Network
- _ AdHoc Network

Research Experiences

- Jan 2012 Research Assistant working on Coverage in WSN, [WSN Laboratory](#), UAST
Supervisor: Eng. Vahid Moghiss.
Aug. 2008
- Apr 2012 Research Assistant working on Intelligent Algorithms used in Irrigation and Agriculture, Hamadan Science and Technology Park (HSTP),Institute for Research in Agriculture Science (IRAS)
Supervisor: Dr. Reza Pirtaj.
Aug 2009
- Jan 2011 Research Assistant working on Native Mail Server, BASU Incubator Center, Hamadan, Iran,
Supervisor: Eng. Vahid Moghiss.
Aug 2009

Patents:

1. Mohammad Hossein Homaei, 2007. Design a Tour Guide System Based on Vocal,
(Iranian Patent Grant Number: 37430)
2. Mohammad Hossein Homaei, 2008. Design Greenhouse and Agriculture Automation System,
(Iranian Patent Grant Number: 49172)
3. Mohammad Hossein Homaei, 2008. Online Registration Traffic fines System,
(Iranian Patent Grant Number: 53033)
4. Mohammad Hossein Homaei, 2008. Design Fishery and Fish Pool Automation System,
(Iranian Patent Grant Number: 53049)
5. Mohammad Hossein Homaei, 2012. Design Wireless Sensor Network System for Healthcare and Medicine Application, (Iranian Patent Grant Number: 64501)

Teaching Experiences

Instructor

Fall'11 Introduction to Wireless Sensor Network, WSN Courses, **Sina Association, UAST**, Hamadan, Iran.

Spring'11 Microsoft Certified Solutions Expert (MCSE) 2008, **UAST**, Hamadan, Iran.

Fall'10 Linux Networking, Instructor: Eng. Vahid Moghiss.

Work Experiences

- **Coverage Models Design in WSN Laboratory (WSNLAB).**

Now I used to work as a professional team member on a coverage and connectivity in WSN.

- **Write Book about 4 Simulator in WSN to Introduce that's for all of researchers in this field, for example :**

Work on jsim, NS2, NS3, OmNet++, Atarraya to make a Multimedia Introduction about these Simulators.

- **And coming soon:**

Release Network Simulator ver. 2.35 without any bug in WSN under supporting WSNLAB.

Languages

English: Fluent (TOEFL IBT: 90[R:28 L:21 S:23 W:18])

Farsi: Mother tongue

Computer Skills

- Simulators Proficient in Wireless Sensor Network: Java Simulator, NS2, Atarraya Simulator, MATLAB And visually simulator family.
- Languages Proficient in C/C++, Java, also scripting languages like: JS, AWK and PHP.
- Familiar with ASP, C# and VB.
- Database MySQL, SQL Server, Oracle DB and Microsoft Access.
- OS Proficient in different UNIX environments and MS Windows.
- Familiar with Mac OS X.
- Other LATEX and MS Office.

Selected Courses, Bachelor of Information Technology

Linux OS and Networking 20 Eng. Moghiss.

Network Lab 20 Eng. Alimohammadi.

System Analysis 20 Eng. Alavi.

Algorithm Designing 19.5 Eng. Hamidi.

References

Vahid Moghiss: Eng, Computer Engineering Department, IAUH, Hamadan, Iran.

| Phone: +(98)(811) ----- | [Email](#)

Ameneh Alimohammadi: Associate Professor, Computer Engineering Department, UAST, Hamadan, Iran.

| Phone: +(98)(811)----- | [Email](#)

Mohammad Abdolrahmani: Associate Professor, Electrician and Computer Engineering Department, IAUH, Technology, Tehran, Iran.

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