

Hamid Torfehnejad

Date of Birth: 8 May 1965, Isfahan, Iran
www.torfeh.com



Associate Researcher: [The University of Sydney \(Sydney.edu.au\)](http://www.sydney.edu.au) , Sydney, Australia

Ph.D. Student: Electronic, Department of electrical engineering, [Shahid Beheshti University \(http://www.sbu.ac.ir\)](http://www.sbu.ac.ir), Tehran, Iran

Dissertation Title: “Active Traffic Management Based on Vehicle Probe Data”

M.Sc.: *Communication engineering*, department of electrical & computer engineering, [Isfahan University of Technology \(http://www.iut.ac.ir\)](http://www.iut.ac.ir) , Isfahan, Iran, Feb. 1993

B.Sc.: *Communication Engineering*, department of electrical engineering, [Khajeh Nasir Tousi University of Technology \(http://www.kntu.ac.ir\)](http://www.kntu.ac.ir) , Tehran, Iran, Sep. 1989

Member of PIARC, TCB1 Committee “Intelligent Transportation Systems”
(www.Piarc.org)

Member of ITE (www.ite.org)

Scientific Secretary of IRAN ITS Congress (www.itscongress.ir)

Secretary of ISO/TC204 “Intelligent Transportation Systems” in IRAN
(www.iso.org/tc204)

Secretary of OIML/TC7 “Measuring instruments for length and associated quantities”
in IRAN (www.oiml.org)

Personal & Technical Skills

- ☛ **ITS Expert:** Strong experiences on designing and development of the ITS projects. Thorough knowledge of the theories, principles and practices of ITS engineering and design processes, approvals and relevant standards and policies. Knowledge of project management techniques; demonstrated skill in developing and analyzing engineering proposals, and assessing the implementation of ITS projects.

- ☛ **IT and Network Manager:** Good knowledge on essentials, designing, configuring, administration and troubleshooting of LAN/WAN technologies and network infrastructures, protocols, TCP/IP, IPX/SPX, devices and implementing internet and intranet projects.
Practical and theoretical understanding of Cisco routers, switches and other network devices

Professional Experiences

2000 - Present

Network & ITS group manager

ITS engineering: Designing and implementing grate ITS projects in Iran in the fields of : offline and online tracking systems, smart card, TMC, VMS, VSL, traffic counters, real time monitoring systems, CCTV monitoring systems, speed enforcement systems, ETC,WIM,...

Road Maintenance & Transportation Organization of Iran (RMTO)
(<http://www.rmto.ir/MainE.asp>)

1995 - 2000

Network engineering: Administrating LAN and preparing web sites and maintaining the WAN with wireless connections, leased line, X.25 and VSAT media and PPP protocols. Designing and implementing ISP (Internet Service Provider) in Tehran consisting of all components and services, Remote Access Server, Router (Cisco), AAA server (ACS, NTtac+, IAS), mail server (Exchange, Mdaemon), web server (IIS), DNS, DHCP....

Ministry of Interior (MOI) (www.moi.ir)

[Bandar Imam Petrochemical Company \(BIPC\)](http://www.bipc.org/En/default.aspx)

(<http://www.bipc.org/En/default.aspx>)

Alborz computer company and Caspian inc., Tehran

References: Available upon request.

1987 - 1990

Communication engineering: Design communication interface board between computer and telephone line to control the dialing and making connection between computers.

[Iran Telecommunication Research Center \(ITRC\), Tehran](http://www.itrc.ac.ir) (<http://www.itrc.ac.ir>)

My ITS Projects: (Documents are available)

- 1- **Project Manager** : "Offline GPS tracking system for inter-city bus speed control and enforcement" [RMTQ](#) 2002
- 2- **Project Manager** : " Online GPS Tracking system for international cargo trucks on Inmarsat D+ media " [RMTQ](#) 2003
- 3- **Project Manager** : "Smart Card (memory) issuing for commercial truck and bus drivers and vehicles " [RMTQ](#) 2004
- 4- **Project Manager** : " Fleet management system (online tracking) of road maintenance vehicles: [RMTQ](#) 2007
- 5- **Project manager** : "Designing and implementing of inter-city roads Traffic Management Center " [RMTQ](#) 2008
- 6- **Project Manager:** " Real-time Inter-city road traffic monitoring system" [RMTQ](#) 2008
- 7- **Project manager:** " ITS studies of Zanjan, North Khorasan and Fars

provinces" [RMTO](#) 2007-2008

- 8- **Project Manager** : Designing and Implementing of CCTV monitoring system and VMS and TMC of Zanjan and North Khorasan Provinces" [RMTO](#) 2008-2009
- 9- **Project Manager**: " CCTV monitoring system of Imamzade hashem, Koohin and Kandovan gorges:" [RMTO](#) 2008
- 10-**Project Manager**: " Studies of designing and installing of CCTV monitoring system in 18 important mountain roadways " [RMTO](#) 2008
- 11-**Consulting and control on project**: " Compilation of using ITS systems in Iran roads manual" Transportation Research institute (<http://www.rahiran.ir/tri/>) 2007
- 12-**Consulting and control of project**: " Compilation of preparing electrical energy and transmission system for ITS project in Iran manual" Transportation Research institute (<http://www.rahiran.ir/tri/>) 2007
- 13- **Project in progress**: "Fix speed camera enforcement systems in inter-city roads" [RMTO](#) 2009
- 14-**Project in progress**: "ETC pilot project in Thran-Qom highway" [RMTO](#) 2009

Papers:

1. "A Practical Simple Technique to Detect Abnormal Traffic Flow in Freeway ", [21th ITS World Congress, Detroit , USA, Sep. 7-11, 2014,](#)
2. " A Practical Dynamic Speed Limit Control Method using Real-time Traffic Counting Systems", [18th ITS World Congress, Orlando , USA, Oct. 16-20, 2011,](#)
3. "Speed Management in Rural Roads using Real-time Traffic Counting Systems to Improve Road Safety in IRAN ", [17th ITS World Congress, Busan, Korea, Oct. 25-29, 2010,](#)
The winner of Travel Award in this congress
2. " Implementing Road Maintenance Machineries Management System based on GPS and GPRS technologies in IRAN ", [17th ITS World Congress, Busan, Korea, Oct. 25-29, 2010](#)
3. " Implementing Visual Monitoring System in Roads Network ", [17th ITS World Congress, Busan, Korea, Oct. 25-29, 2010](#)

4. " Implementing Iran's Road Information and Traffic Management Center (RITMC) ", 17th ITS World Congress, Busan, Korea, Oct. 25-29, 2010
5. "Speed Management by using Traffic Counters and VSL to improve safety in Iran",
ACGM 2010, Annual Conference and General meeting, ITS Canada, Ontario, June 2010
6. "Real-time inter-city roads traffic monitoring system",
16th ITS World Congress, Stockholm, Sweden, Sep. 21-25, 2009
7. "Online tracking of international and internal transportation in Iran",
11th ITS World Congress , Nagoya, Japan, 2004
8. "Offline control of passenger transport fleet in interurban road network of Iran",
The Eight International Conference Applications of Advanced Technologies in Transportation Engineering, Beijing, China, May 26-28, 2004
9. "Implementing The first visual monitoring system in Iran roads ",
1th national conference on roadway and railway accidents and fortuities at Zanzan University, Iran, Nov 2009
10. "Online roadways traffic monitoring system", ITS conference at Elm-o-Sanat University,Iran, Nov 2009
11. "Path planning of a mobile robot in unknown environment with neural network",
Neural Network workshop at Tehran University, Dec. 1993
12. "ECG classification by using Back Propagation (BP) neural network",
Iranian Conference on Electrical Engineering at Tarbiat Modarres University, May 1994
13. "Interpretation of electrocardiogram by using expert systems",
The first Computer Conference at Tehran University, Feb. 1993

Teaching:

1. **Isfahan University of Technology, 2 years**, Electrical Circuits & laboratory.
2. **Azad University of Naen and Khomeinishahr, 1 year**, Electrical Circuits & laboratory.
3. **Azad University of Mahshahr, 3 years**, Engineering Mathematical Statistics & Probability, Electrical Engineering Principals, Digital Circuits and Electronic

Contact Information:

Road Maintenance & Transportation Organization of Iran,

<http://www.rmto.ir>

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Linked in profile

<http://www.linkedin.com/pub/hamid-torfehnejad/6b/312/964>