

# Mozafar Bag-Mohammadi

## Contact Information

**Address:** Ilam, Pazhoesh boulevard, [University of Ilam](#), Faculty of Engineering,  
**Mailing Address:** Faculty of Engineering, University of Ilam, P.O. Box 69315-516, Ilam, Iran  
**Telephone:** +98 841 2227019 ext. 289  
**Fax:** -  
**Email:** [mozafarb@ece.ut.ac.ir](mailto:mozafarb@ece.ut.ac.ir), [mozafar@mail.ilam.ac.ir](mailto:mozafar@mail.ilam.ac.ir)  
**HomePage:** [www.ilam.ac.ir/staffs/mozafar](http://www.ilam.ac.ir/staffs/mozafar)

## Education

University	Field of study	Duration	Thesis subject
University of Tehran, Tehran Iran.	Ph.D. in Computer Science	1999-2005	Multicast routing protocols
University of Tehran, Tehran Iran.	MS in Digital Electronic	From fall 1997 to winter 1999	Design of switch-level simulator for digital circuits.
Sharif University of Technology, Tehran, Iran.	B.S. in Electrical Engineering	From fall 1993 to fall 1997.	-

## Experiences

- Tech. Staff**  
Since 2000.  
*Ilam University, Ilam, Iran*
- Teaching Computer Networks, Logic Design, Computer Architecture, Data structure, Internet engineering, Logic Design, C programming and Operating systems courses for the undergraduate level in University of Ilam.
  - Teaching Internet and computer tutorials for organizations.
- Lecturer**  
Feb. 2003  
*University of Mashhad, Mashad, Iran*
- Lecturer in "80 Gb/s Multi-service Router Design" one day workshop in CSICC 2003 conference on 24 Feb. 2003, Ferdowsi University of Mashhad, Iran as a Router Design team member.
  -
- Researcher**  
Jan 2001-Oct. 2003  
*University of Tehran, Tehran, Iran.*
- 1 year of work experience in Router Design Project team in Router Laboratories in University of Tehran in many processes including overall router architectural design, router requirements, routing protocols and central unit design, proposal preparations, financial justifications.
- Researcher**  
Jan 2001-Oct. 2005  
*Dept. of Electrical Eng., University of Tehran*
- 5year of research work on multicast routing in IP networks and MPLS networks
- Researcher**  
Jan 2001-Oct.  
*ITRC, Iranian Telecommunications Research Center, Tehran, Iran.*
- I was also one of the 2 students that participated in many

2003 sessions with ITRC, Iranian Telecommunications Ministry and Data company regarding the project justification.

### **Referee**

From 2002 • I was reviewed many papers for international and domestic conferences and journals in the field of networking.

### **Work**

*Iranian Data Company, Tehran, Iran.*

Oct. 99-Oct. 2001 • Two year full-time work as network services maintainer in Iranian Data Company.

### **Work**

Oct. 99-Oct. 2001 • Design and installation of small ISPs and campus networks.

## **Journals**

1. M. Bag-Mohammadi and N. Yazdani, "Next Branch Multicast (NBM) routing protocol," Computer Networks, vol. 49, Issue 6, pp. 878-897, Dec. 2005. (pdf, ppt).
2. M. Bag-Mohammadi and N. Yazdani, "A fast and efficient explicit multicast routing protocol," IEICE Tran. on Communication, vol. E88-B, no.10, pp. 4000-4007, Oct. 2005. (pdf)

## **Publications in English**

3. M. Bag-Mohammadi, N. Yazdani and S. Samadian-Barzoki, "On the efficiency of explicit multicast routing protocols," in Proc. IEEE ISCC 2005, pp. 679-685, Cartagena, SPAIN, June 2005.(pdf, ppt)
4. M. Bag-Mohammadi, S. Samadian-Barzoki, M. Nikoopour, N. Yazdani, N. Rezaee, "A Case for Dense-Mode Multicast Support in MPLS", IEEE ISCC 2004, Alexandria, EGYPT June 29 - July 1, 2004. (pdf)
5. M. Bag-Mohammadi, S. Samadian-Barzoki, N. Yazdani, "Improving Data Distribution in Branching Point Based Multicast Protocols", ICOIN 2004, Posan, Korea, Feb 2004. (pdf)
6. S. Samadian-Barzoki, M. Bag-Mohammadi, N. Yazdani, "BMP: an Efficient and Scalable Multicast Protocol", Proc. of IEEE CCECE 2004, May 2-5, 2004, Ontario, Canada (pdf).
7. M. Bag-Mohammadi, S. Samadian-Barzoki, N. Yazdani, " Linkcast: Fast and Scalable Multicast Routing Protocol", LNCS 3042, Proc. of Networking 2004, Athens, Greece, May 9-14 2004.(pdf)
8. M. Bag-Mohammadi, S. Samadian-Barzoki, N. Yazdani, "Near Receiver Branching Point Multicast Protocol", Proceeding of Asia-Pacific Conference on Communications (APCC'2003), Penang, Malaysia, Sep. 2003.(pdf)
9. S. Samadian-Barzoki, M. Bag-Mohammadi, M. Nikoopour, N. Yazdani, "An Architecture for Multicast Routing Protocol Support in MPLS", Proceeding of International Symposium on Telecommunications (IST2003), Isfahan, Iran, Aug. 2003.(pdf)
10. S. Samadian-Barzoki, M. Bag-Mohammadi, N. Yazdani, "A Mechanism for MPLS Broadcast and Its Extension for Multicast Dense-Mode Support in MPLS", LNCS 2662, Selected Revised papers from ICOIN 2003, Cheju island, South Korea, Feb. 2003. (pdf)

## **Publications in Persian**

11. M. Bag-Mohammadi, S. Samadian-Barzoki, N. Yazdani, "An Algorithm and Protocol for Building Optimized Trees in Multicast", Proc. of CSICC'2003, Mashhad, Iran, Feb. 2003 (in Persian).
12. S. Samadian-Barzoki, M. Bag-Mohammadi, N. Yazdani, "A New Protocol for Broadcast in MPLS Environment and Its Extension for Multicast Support", Proc. of CSICC'2003, Mashhad, Iran, Feb. 2003 (in Persian).
13. S. Samadian-Barzoki, M. Bag-Mohammadi, N. Yazdani, "A New Multicast Protocol Based on Branching Points Concept", Proc. of CSICC'2004, Tehran, Iran, Feb. 2004 (in Persian).

### **Research Interests**

- Multicast Routing Protocols and algorithms
- Explicit Multicast
- Multicast support in MPLS networks
- Alternative Methods for Group communication
- Application layer Multicast
- Router architecture and Design
- Unicast Routing

### **Courses ready to teach:**

- **Undergraduate level:** Computer Networks, Operating Systems, Computer Architecture, Data Structure, C Programming, Logic Design
- **Graduate level:** Multicast Routing

### **Computing Skills**

- **Operating Systems:** LINUX, NT, Windows.
- **Window Environments/Programming:** X-Window, Microsoft Windows and Visual C ++.
- **Languages:** C, C++, PASCAL, VB, TCL, OTCL.
- **Major Fields in Computer:** Networking, Switching And Digital Design.
- **Digital Design Tools:** Verilog, VHDL.
- Shell, Tcl , system programming, simulator design and NS-2.
- **Internet Technology:** HTML. Small ISP design.

### **References**

Dr Nasser Yazdani Tazeh-Kand, Tel- +98 (021) 2354621  
Email: [yazdani@ut.ac.ir](mailto:yazdani@ut.ac.ir).  
Dr Nasser Rezaee,  
Email: [n\\_rezaee@isc.iranet.net](mailto:n_rezaee@isc.iranet.net)  
Dr Omid Fatemi  
Email: [omid@fatemi.net](mailto:omid@fatemi.net)