

# CURRICULUM VITAE

March 2007



## MOJTABA SABEGHI

### CONTACT INFORMATION

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#### Current Address

Zusterlaan 178  
Delft, 2611 MP  
The Netherlands  
Phone: +31 64 39 09401  
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#### Permanent Address

No 151, 10<sup>th</sup> Ladan  
Mashhad, 9179976933  
Iran  
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### EDUCATION

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#### PhD student in Design of Parallel and Distributed Embedded Computer Systems

Faculty of Electrical Engineering, Mathematics and Computer Science, Delft University of Technology, Delft, the Netherlands, Since November 2006

Research area: Run-time Support for Reconfigurable Computing Systems

Supervisors: Prof. S. Vassiliadis and Dr. K. Bertels

Funding: A full 4 years scholarship from an EU-funded project called hArtes

#### Master of Science in Computer Engineering

Faculty of Engineering, Ferdowsi University of Mashhad, Mashhad, Iran, 2006

Thesis Title: “*RDM Enhancement and Simulative Performance Evaluation on a Distributed Real-Time System*”

Supervisor: Prof. M. Naghibzadeh

GPA: 19.27/20

#### Bachelor of Science in Computer Engineering

Faculty of Engineering, Ferdowsi University of Mashhad, Mashhad, Iran, 2004

Thesis Title: “*Exokernel Security Assurance*”

Supervisor: Prof. M. Naghibzadeh

GPA: 15.83/20

### RESEARCH INTERESTS

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- Operating Systems
- Parallel and Distributed Computing
- Real-Time Computing and Embedded Systems

- Network Protocols
- Programming Languages

## **ACADEMIC HONORS AND AWARDS**

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- Achieved the highest GPA in postgraduate level of the faculty of Engineering, since the establishment of the program (10 years) among 1200 students, 2006
- Awarded with a certificate of excellence for outstanding achievement in the Engineering faculty, 2006
- Awarded Outstanding BSc Student, Computer Engineering Department, Ferdowsi University, Mashhad, 2004
- Ranked 14 in National Annual Graduate Schools Entrance Exam (NAGSEE), with about 20,000 applicants in the country. This exam is very similar to the GRE Subject in Computer Science covering all the fundamental computer courses, 2004
- Top 2% of the country, in the National Periodical Recruitment Exam (NPRE), with about 100,000 applicants in the country. This exam is very similar to GRE General in which the analytical, quantitative and verbal abilities of the applicant are evaluated ,2004
- Winner of Ferdowsi University of Mashhad's Programming Contest 2004
- 28th ACM International Collegiate Programming Contest, Asia Region, Tehran Site 2003, eleventh place
- Winner of RoboSoccer Simulation Contest in the 5th Conference on Intelligent Systems, Ferdowsi University of Mashhad, 2003
- Winner of Ferdowsi University of Mashhad's Programming Contest 2003
- Winner of Ferdowsi University of Mashhad's Programming Contest 2001
- Top 1% of the country, in the National Annual University Entrance Exam (NAUEE), with about 300,000 applicants in the country. My rank: 1200, Year 2000

## **PUBLICATIONS**

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### **Journal Papers**

1. Deldari H., Sabeghi M., Mafi R., "Alchemi+: An Agent-based Approach to Grid Programming" to be published in the *Kuwait Journal of Science and Engineering* (ISI-Indexed Journal), July 2007
2. Sabeghi M., Naghibzadeh M., "A Fuzzy Algorithm for Real-Time Scheduling of Soft Periodic Tasks", *International Review on Computers and Software journal* (IRECOS), Vol. 1 No. 2 September 2006 ISSN 1828-6003
3. Sabeghi M., Naghibzadeh M., Taghavi T., "A Fuzzy Algorithm for Scheduling Soft Periodic Tasks in Preemptive Real-Time Systems", To be published in the *New Mathematics and Natural Computing Journal*, World Science publication
4. Sabeghi M., Yaghmaee M.H., "Using Fuzzy Logic to Improve Cache Replacement Decisions", *IJCSNS International Journal of Computer Science and Network Security*, Vol. 6 No.3 March 2006 ISSN 1738-7906
5. Sabeghi M., Deldari H., "A Fuzzy Algorithm for Scheduling Periodic Tasks on Multiprocessor Soft Real-Time Systems", *IJCSNS International Journal of Computer Science and Network Security*, Vol. 6 No.3 March 2006 ISSN 1738-7906

### **Refereed Conference Papers**

6. Mirshokraie S., Sabeghi M., Naghibzadeh M., Bertels K.L.M., "Performance Evaluation of Real-Time Message Delivery in RDM Algorithm", *The Third International Conference on Networking and Services (ICNS07)*, IEEE, June 2007

7. Sabeghi M., Naghibzadeh M., Bertels K.L.M., "RDM+: A New Mac Layer Real-Time Communication Protocol", *IEEE Sarnoff Symposium*, IEEE, April 2007
8. Sabeghi M., Naghibzadeh M., Deldari H., "Performance Assessment of a Distributed Real-Time Control System Utilizing RDM and RDM+ Protocols for Communication", *2<sup>nd</sup> International Conference on Future Networking Technologies (CoNEXT06)*, ACM SIGCOMM, December 2006
9. Khajoueinejad S., Sabeghi M., Sadeghzadeh A., "A Fuzzy Cache Replacement Policy and Its Experimental Performance Assessment", *IEEE International Conference on Innovations in Information Technology (IIT06)*, IEEE, November 2006
10. Sabeghi M., Kahani M., Taghavi T., "A Fuzzy Replacement Policy for Web Proxy Caches", *International e-Conference on Computer Science (IeCCS06)*, June 2006
11. Sabeghi M., Deldari H., "A Fuzzy Algorithm for Scheduling Periodic Tasks on Multiprocessor Soft Real-Time Systems", *IASTED International Conference on Modeling and Simulation (MS 2006)*, May 2006
12. Sabeghi M., Naghibzadeh M., Taghavi T., "Scheduling Non-Preemptive Periodic Tasks in Soft Real-Time Systems using Fuzzy Inference", *9th IEEE International Symposium on Object and component-oriented Real-time distributed Computing (ISORC)*, IEEE, April 2006
13. Sabeghi M., Naghibzadeh M., "Extended Abstract: Scheduling Non-Preemptive Periodic Tasks in Soft Real-Time Systems using Fuzzy Inference", *2<sup>nd</sup> International Conference on Information & Communication Technologies: From Theory to Applications*, IEEE, April 2006
14. Sabeghi M., Deldari H., Salmani V., Bahekmat M., Taghavi T., "A Fuzzy Algorithm for Real-Time Scheduling of Soft Periodic Tasks on Multiprocessor Systems", *IADIS International Conference on Applied Computing*, February 2006
15. Sabeghi M., Naghibzadeh M., Taghavi T., "A Fuzzy Algorithm for Scheduling Soft Periodic Tasks in Preemptive Real-Time Systems", *1st International Conference on Systems, Computing Sciences and Software Engineering (SCSS)*, Springer, December 2005 (Selected for Journal Publication)

### **Thesis**

16. RDM Enhancement and Simulative Performance Evaluation on a Distributed Real-Time System  
MSc Thesis, Ferdowsi University of Mashhad, October 2006  
Supervisor: Prof. Mahmoud Naghibzadeh - Thesis Grade 20/20
17. Exokernel Security Assurance  
BSc Thesis, Ferdowsi University of Mashhad, September 2004  
Supervisor: Prof. Mahmoud Naghibzadeh – Thesis Grade 19.5/20

### **Collaborators**

Prof. Mahmoud Naghibzadeh, Dr. Hossein Deldari, Dr. Mohammad Hossein Yaghmaee, Dr. Mohsen Kahani, Dr. Koen Bertels, Toktam Taghavi, Vahid Salmani, Malihe Bahekmat, Sedigheh Khajoueinejad, Azam Sadeghzadeh, Roohollah Mafi, Shabnam Mirshokraie

### **SERVED AS REFEREE**

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1. International Symposium on Systems, Architecture, Modeling and Simulation , Greece, July 2007
2. International Workshop on Applied Reconfigurable Computing, Brazil, March 2007
3. International CSI Computer Conference, Iran, January 2006

### **GRADUATE COURSES**

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#### **MSc**

Advanced Operating Systems, Parallel Algorithms Design and Analysis, Distributed Systems, Advanced Databases, Advanced Software Engineering, Advanced Computer

Architecture, Advanced Engineering Mathematics, Expert Systems and Knowledge Engineering

**PhD** (Already taken or will be taken in near future)

Distributed Algorithms, Compiler Constructions, Parallel Algorithms and Parallel Computers, Introduction to High Performance Computing

## **SERVED AS SUPERVISOR**

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### **Associate of Applied Science Degree in Software – Senior Thesis/Project**

1. E-Learning Content Management, Kamel M., 2006
2. Power Grid Monitoring System, Ahrabi R., Khorshidi V., 2006
3. Audio Streaming in Weblogs, Peyvandi G., 2006
4. Airport Maintenance Administration System, Talebi A., 2006
5. Educational Website Content, Ebrahimi M., 2006
6. On-line Backup Manager, Emam R., Govahi M., 2006
7. Clinic Information System for Medical Professionals, Hamed N., Mahmoudi N., Heydari M., 2006
8. On-line Shopping System, Aliyar S., Moradi S., 2006
9. A Survey on Steganography Techniques, Namayandeh S., 2006

## **ACADEMIC TEACHING EXPERIENCE**

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### **Course Taught in English**

- ✧ Saramad Fanavari Etelaat Ferdowsi Center  
Accredited partner of NCC Education, UK
- ★ Structured Programming Methods

### **Course Taught in Persian**

- ✧ University of Applied Science and Technology, Kharazmi institute of higher education
  - ★ Advanced Computer Programming
  - ★ Computer Principles and Programming
  - ★ Microprocessors
  - ★ Data structures
  - ★ Operating Systems
- ✧ Islamic Azad University of Taybad
  - ★ Operating Systems
  - ★ Advanced Computer Programming
  - ★ Computer Principles and Programming
- ✧ Ferdowsi Univ. of Mashhad, College of professional and vocational studies
  - ★ Professional Application Development – C# .Net
  - ★ Dynamic Web Development - PHP & MYSQL
- ✧ Ferdowsi Univ. of Mashhad, Computer Engineering Dept.
  - ★ Operating Systems, Teacher assistance, fall semester, 2003

## **BUSINESS EXPERIENCE**

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- Ferdowsi University of Mashhad Information Technology Services (ITS) Center
  - Period  
Jun 2004 to Sept 2006
  - My responsibilities  
Design and Development of the following software systems:

Ferdowsi University Budget Planning System  
Ferdowsi University Accounting System  
Ferdowsi University Maintenance System  
Ferdowsi University Employee and Student ID Card Systems

- Mashhad Leather
  - Period  
Jun 2005 to Sept 2005
  - My Responsibilities:  
Managing the Re-engineering process of the Shopping Software System
  
- Baharan System Toos
  - Period  
July 2004 to October 2004
  - My Responsibilities:  
Management of the following projects  
HRS (Hotel Reservation System)  
Nutrition Analyzer  
Accounting System
  
- Intelligent Systems
  - Period  
May 2003 to Jun 2004
  - My Responsibilities:  
Managing AAS (Administrative Automation System)
  
- Honafa
  - Period  
Sept 2002 to Feb 2003
  - My Responsibilities:  
Senior programmer of the following projects:  
Filesphere (Document Management System)  
JMS (Job Management System)

## **LANGUAGE SKILLS**

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- Persian : Mother tongue
- English : Fluent
- Dutch : Beginner
- Arabic : Intermediate

## **PROFESSIONAL MEMBERSHIPS**

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- ACM Student Member, 2004 - Now
- IEEE Student Member, 2007- Now
- Member of IEEE Benelux Section, 2007 - Now
- ACM Special Interest Group on Operating Systems, 2007- Now
- Member of European Network of Excellence on High-Performance Embedded Architecture and Compilation, HiPEAC, 2007 - Now
- Student Member of the Society of Industrial and Applied Mathematics, SIAM, 2007 - Now
- Senior Member of Young Iranian Elites Association, 2004 -Now
- Member of International Association of Engineers (IAENG), 2006 - Now
- Member of Nexus Soccer Simulation Team 2002 - 2004

- Member of Scientific Community of Computer Engineering Department, Ferdowsi University of Mashhad, 2001 - 2002

## PROFESSIONAL SKILLS

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- Programming Languages: C++, Java, C#, Delphi, Pascal, Visual Basic, Matlab
- Web Development: PHP, ASP.Net, HTML, XML, Java Script
- Database Design and Management: MySQL, MS SQL Server, Oracle
- Software Design and Analysis: RUP, RAD
- Operating Systems: Windows, Linux

## PERSONAL INFORMATION

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Birth date: **July - 16 – 1981**

Country of Citizenship: **Iran**

First Name: **Mojtaba**

Country of Residency: **Netherlands**

Sure Name: **Sabeghi**

**November 2006 – November 2010**

## REFERENCES

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- Prof. Mahmoud Naghibzadeh  
Professor of Computer Engineering Dept.,  
Ferdowsi Univ. of Mashhad  
Email: [naghib@um.ac.ir](mailto:naghib@um.ac.ir)
- Dr. Mohammad Hossein Yaghmaee  
Associate professor of Computer Engineering  
Dept., Ferdowsi Univ. of Mashhad  
Email: [hyaghmae@um.ac.ir](mailto:hyaghmae@um.ac.ir)
- Dr. Koen Bertels  
Associate professor of Computer Engineering  
Lab., Delft University of Technology  
Email: [k.l.m.bertels@tudelft.nl](mailto:k.l.m.bertels@tudelft.nl)
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