

## CURRICULUM VITAE

### Reza Zakeri

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**WORK:**

Sepanta Robotics & AI Research  
Foundation,  
Tehran, Iran  
+98 21 2227 2732  
[zakeri@srrf.net](mailto:zakeri@srrf.net)  
<http://www.srrf.net>

**PERMANENT:**

Tehran, 17656-56497, Iran  
+98 912 623 8256  
[zakeri@ce.sharif.edu](mailto:zakeri@ce.sharif.edu)  
<http://ce.sharif.edu/~zakeri>

**FULL NAME:** Mohammad Reza Zakeri Nasab  
**DATE OF BIRTH:** June 11<sup>th</sup>, 1981  
**PLACE OF BIRTH:** Tehran, Iran  
**GENDER:** Male  
**LANGUAGES:** Persian, English, Arabic

- EDUCATION:**
- **Bachelor of Science in Software Engineering, June 2003**  
Iran University of Science and Technology, Tehran, Iran  
Overall GPA 3.02 of 4, Last two years GPA 3.35 of 4  
Thesis title: *Multi-Agent Reinforcement Learning*  
Thesis score: 4.00/4.00; Supervisor: Dr. Adel Rahmani.
  - **Master of Science in Software Engineering, December 2005**  
Sharif University of Technology, Tehran, Iran; GPA 3.29 of 4  
Thesis title: *Network Security Analysis using Formal Methods*  
Thesis score: 3.80/4.00; Supervisor: Dr. Rasool Jalili.

**SCIENTIFIC****SKILLS:**

- Excellent programming abilities, in both Windows and Linux operating systems.
- Excellent abilities in programming with MATLAB.
- Good knowledge about different concepts around semantic web, ubiquitous computing and pervasive environments.
- Broad experiences in using different artificial intelligence and machine learning techniques to solve a broad range of problems.
- Good knowledge about computer network security and its different aspects, including intrusion detection, firewalls and network vulnerability analysis.

- Good knowledge about logics in computer science, especially description logics.
- Good familiarity with multi-agent systems and related subjects, such as planning, supervised and unsupervised team coordination, etc.
- Good knowledge about time series analysis and related techniques. Subjects studied include stationarity tests (recurrence plots, time delayed mutual information, piecewise stationarity, etc), embedding estimation (using delay coordinates, principal components and false nearest neighbors), Lyapunov exponents, and nonlinear prediction.

**GENERAL****SKILLS:**

- Good level of oral and written communication skills.
- Excellent abilities in writing well-formed and accurate technical reports.
- Excellent abilities in creating well-shaped business reports.
- Good familiarity with management skills with several years of experiences in management of private companies, working teams and research groups.
- Excellent abilities in using computer to facilitate everything around.
- Good knowledge about using different word-processing, spread sheet, and document preparation software.

**PUBLICATIONS:****UNDER REVIEW:**

- A. Andalib, **R. Zakeri**, S. E. Safavieh, and A. R. Sherafat, "Optimal Embedding of NARX Networks for Learning Long-Term Dependencies in Noisy and Nonstationary Time Series," Submitted to *IEEE Transactions on Neural Networks*, to be refereed.

**PUBLISHED:**

- **R. Zakeri** and N. H. Azimi, "A New Architecture for Web Agents," In *Proceedings of the 3<sup>rd</sup> CSI Student Computer Conference*, Awarded Paper, 2002, Tehran, Iran.
- M. Niamanesh, **R. Zakeri**, and S. H. Mirian, "Reconfigurable Software Specification Using B Method," In *Proceedings of the 1<sup>st</sup> International Conference On Modeling, Simulation And Applied Optimization (ICMSAO'05)*, Sharjah, UAE, 2005.
- **R. Zakeri**, E. Pourmand, and M. Niamanesh, "Enhanced Context Aware Security Architecture for Pervasive Environments," In *Proceedings of the 1<sup>st</sup> International Conference on Modeling, Simulation and Applied Optimization (ICMSAO'05)*, Sharjah, UAE, 2005.
- H. R. Shahriari, R. Sadoddin, R. Jalili, **R. Zakeri**, and A. R. Omidian, "Network Vulnerability Analysis through Vulnerability Take-Grant Model (VTG)", In *Proceedings of 7<sup>th</sup> International Conference on Information and Communications Security (ICICS2005)*, China, 2005.

- **R. Zakeri**, H. R. Shahriari, R. Jalili, and R. Sadoddin, "Modeling TCP/IP Networks Topology for Network Vulnerability Analysis", In *Proceedings of 2<sup>nd</sup> International Symposium of Telecommunications (IST2005)*, Shiraz, Iran, 2005.
- M. Salmani and **R. Zakeri**, "A Hybrid Approach for Training MLP using Genetic Algorithms and Backpropagation," In *Proceedings of the 1<sup>st</sup> International Conference of Intelligent Systems (ICIS'06)*, Tehran, Iran, 2006.
- **R. Zakeri**, R. Jalili, and H. R. Shahriari, "Using Description Logics For Man In The Middle Attack Analysis," In *Proceedings of the 11<sup>th</sup> International CSI Computer Conference (CSICC'06)*, Tehran, Iran, 2006.
- K. Mizanian, **R. Zakeri**, and M. Analoui, "A New Framework for Network Layer Based User Modeling," In *Proceedings of the 11<sup>th</sup> International CSI Computer Conference (CSICC'06)*, Tehran, Iran, 2006.
- M. Keramati, M. H. Rohban, **R. Zakeri**, and A. Andalib, "Competitive Behavioral Partitioning of State Space with Local Experts," In *Proceedings of the 11<sup>th</sup> International CSI Computer Conference (CSICC'06)*, Tehran, Iran, 2006.
- **R. Zakeri**, R. Jalili, H. Abolhassani, and H. R. Shahriari, "Using Description Logics for Network Vulnerability Analysis," In *Proceedings of the 5<sup>th</sup> IEEE International Conference on Networking (ICN'06)*, Maturities, 2006.
- K. Mizanian, **R. Zakeri**, and M. Analoui, "User Modeling Using Network Layer Information," In *Proceedings of the 5<sup>th</sup> IEEE International Conference on Networking (ICN'06)*, Maturities, 2006.
- **R. Zakeri**, M. Salmani, M. Izadi, and H. Vosoughpour, "Technical Solutions for Soccer Simulation 3D," In *Proceedings of the 12<sup>th</sup> International CSI Computer Conference (CSICC'06)*, Tehran, Iran, 2007.

#### WORKSHOPS:

- Dreaming about Future: How Ubiquitous Computing will change our life?
- Dreaming about Future: How Artificial Intelligence will change our life?  
In *2<sup>nd</sup> National High-School Programming Contest*, National Organization for Development of Exceptional Talents (NODET), Tehran, Iran, 2005.
- Logic Based Network Vulnerability Analysis
- Security and Privacy in Future Pervasive Environments  
In *1<sup>st</sup> Seminar of Future View of Security in Cyberspace*, Supreme Council of Information & Communication Technology (SCICT), Tehran, Iran, 2006.

- Pattern Recognition: Concepts, Methods, and Industrial Applications In *4<sup>th</sup> CSI Student Computer Conference*, Tehran, Iran, 2006.

**TECHNICAL  
REPORTS:**

- CAPAS: Concurrency Control Algorithms Performance Analysis System. December 2003.
- Context-Aware Security in Pervasive Computing. April 2004.
- Dynamic Role-Based Access Control Mechanism for Pervasive Computing. August 2004.
- Network Topology Description Languages: A Comparative Study. September 2004.
- Concurrency Control Algorithms, Performance Comparison between S2PL, KV2PL, NW, WDL, RPS, and BOCC. September 2004.
- Class Refinement in Object Oriented Programming, Literature Study. March 2005.
- Security Software Priorities. August 2005.
- Wearable Computing, Current and Future Applications. March 2007.

**SCIENTIFIC  
HONORS:**

- Selected among 40 top students of Computer Olympiad of Iran, 1998 (not succeed to being selected in the final seven person national team).
- Ranked 372 out of more than 400 thousands high-school students in country-wide University Entrance Exam for B.Sc., 1998.
- Best Research Paper Award, 5<sup>th</sup> Computer Faculty Student Conference, IUST, 2002.
- Honored Researcher Award, Iran University of Science and Technology, 2003.
- 1<sup>st</sup> place award in American Open 2003 (Pittsburgh, USA), Iranians Coach Simulation Team, 2003.
- Ranked 13<sup>th</sup> out of 5000 computer and electronics engineering students in country-wide Higher Education Exam for M.Sc., 2003.
- 3<sup>rd</sup> place award in RoboCup 2003 (Padua, Italy), Iranians Coach Simulation Team, 2003.
- 2<sup>nd</sup> place in RoboCup 2003 (Padua, Italy), Iranians Game Presentation and Analysis Tools Team, 2003.
- 4<sup>th</sup> place in RoboCup 2004 (Lisbon, Portugal), Sepanta Coach Simulation Team, 2004.
- 3<sup>rd</sup> place in IranOpen 2005 (Tehran, Iran), Sepanta Coach Simulation Team, 2005.

**TEACHING****EXPERIENCES:**

- Lecturer, Reinforcement Learning Course, Fall 2004, Sepanta Robotics & AI Research Foundation, Tehran, Iran.

- Lecturer, Advanced Programming Course (Java),  
Fall 2007, CE Department, Azad University at Asaluye, Asaluye, Iran.
- Lecturer, Fundamentals of Computer Networks,  
Fall 2007, CE Department, Azad University at Asaluye, Asaluye, Iran.
- Teaching Assistantships:
  - Advanced Programming Course (C++), Fall 2002,  
Compilers Course, Spring 2003,  
CE Department, Iran University of Science & Technology, Tehran,  
Iran.
  - Advanced Programming Course (C++), Fall 2004,  
Operating Systems Course, Spring 2005,  
CE Department, Sharif University of Technology, Tehran, Iran.

#### SCIENTIFIC AND GENERAL WORK

- EXPERIENCES:**
- Director General, July 2003 to Present  
Sepanta Robotics & AI Research Foundation
  - Senior Researcher, July 2003 to Present  
Sepanta Robotics & AI Research Foundation
  - Senior Researcher, November 2004 to November 2005  
Sharif Network Security Center
  - Studios Group Manager, July 2003 to September 2004  
Reinforcement Learning Studios Group  
Sepanta Robotics & AI Research Foundation
  - Student Team Manager, September 2002 to May 2005  
Iranians & Sepanta Coach Simulation Team
  - Technical Manager, August 2000 to October 2002  
Rayan Padidar Novin Co., LLC