

Curriculum Vitae

Hadi Salimi

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Personal Data

Name: Hadi Salimi

Date of Birth: February 15, 1980

Permanent Address: Distributed Systems Lab., School of Computer Engineering, Iran University of Science and Technology, Tehran, IRAN.

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Education

- **2007-now:** Ph.D. Candidate in Software Engineering, Computer Engineering Department, Iran University of Science and Technology, Tehran, IRAN.
Thesis: Power-Aware Virtual Machine Scheduling in Support of Cloud Computing Environments.
Supervisor: Dr. Mohsen Sharifi
- **2003-2005:** M.S. in Software Engineering, Computer Engineering Department, Iran University of Science and Technology, Tehran, IRAN. (GPA: 17.00 on a 20 scale)
Thesis: Integrating Replication and Transaction Manager Services in CORBA
Supervisor: Dr. Mohsen Sharifi.
- **1998-2002:** B.Sc. in Software Engineering, Computer Engineering Department, Sharif University of Technology, Tehran, IRAN. (GPA: 16.20 on a 20 scale. The department average is 13.54.)
Thesis: Design and Implementation of a Remote Controller for Primavera
Supervisor: Dr. Seyed Hassan Mirian.

Skills

- Advanced Linux Programming in C++
- Parallel and Distributed Programming (Cilk++, OpenMP, CUDA and MPI)
- C++, C# and Pascal Programming Languages
- Advanced .Net Programming by C#
- Microsoft Visual C++ MFC Programming
- COM-Based Software Development
- Advanced CORBA Programming
- Object Oriented Analysis and design
- Object Oriented Modeling (in UML)

Industrial Experiences:

- **2011-2012:** Sima2 Card Management System, Project Manager
An integrated solution for management of credit cards and its transactions
- **2010-2011:** Data Mining Leaders, Software Process and Quality Engineer.
Enhancement of software development processes to produce high quality software.
- **2004-2010:** Nebras Document Manager (NDM), Project Manager, Developer
An integrated, open, and enterprise-scale document management system
Used Technologies: Visual C++ 9.0, .NET Framework, Visual C#, SQL Server 2008, Exchange Server
- **2003-2004:** Nebras Persistence Service (NPS), Developer
A low-level run-time framework for mapping object states into relational databases
Used Technologies: Visual C++ 6.0, SQL Server 2005, CORBA
- **2002-2003:** Nebras Classifier (NC), Project Manager
A generic programming framework for construction of applications that are based on subject hierarchies
Used Technologies: Visual C++ 6.0, Visual Basic 6.0, Stingray Library
- **2001-2002:** Nebras Security Service (NSS), Developer
A low-level programming framework for construction of secure enterprise applications
Used Technologies: Visual C++ 6.0, CORBA, SQL Server 2000
- **2000-2001:** Virtual Lab, Developer
A simulation environment for physics experiments for high school students.
Used Technologies: Visual C++ 6.0, OpenGL, DirectX

Working Experience

- **2010-now:** Research and Development Manager, Data Mining Leader Co.
- **2001-2010:** Object Oriented Analysis, Design and Programming in Nebras Informatics Co¹.
- **2000-2001:** Programming with Microsoft Visual C++ Language in KOG Co².

Teaching Experience:

- Distributed Systems (Spring 2010)
- Virtual Machines (Fall 2009 and 2010)
- Cloud Computing Systems (Fall 2010 and 2011)
- Component Based Software Engineering (Fall 2009)
- Concurrent Programming (Spring 2008, Fall 2009)
- Operating Systems (Spring and Fall 2008, 2009 and 2010)
- Operating Systems Lab (Fall and Spring 2008, 2009 and 2010)
- Software Engineering (Spring 2008, 2009 and 2010)
- Advanced Programming in C++ (Fall and Spring 2003, 2004, 2005 and 2006)

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² 2nd floor, No 24, Golha Blvd., North Zanjan Ave. Tehran, IRAN, Tel: +98-21-970963, URL: www.kog.com

Academic Interests

- Virtualization Technology
- Distributed Systems (Clouds, Grid, Clusters, ...)
- Operating Systems
- Fault-Tolerant Computing
- Parallel and Distributed Programming

Publications:

- M. Sharifi, S. Shahrivari and **H. Salimi**, “*PASTA: A Power-Aware Solution to Scheduling of Precedence-Constrained Tasks on Heterogeneous Computing Resources*”, Computing, Springer, ISSN (Print): 0010-485X, DOI: 10.1007/s00607-012-0192-1, Accepted To Appear, August 2012.
- M. Sharifi, **H. Salimi**, A. Saberi, and Gharibshah, “*VMM Detection using Privilege rings and Benchmark Execution Times*”, Int. Journal on Communication Networks and Distributed Systems, Accepted to Appear, 2012.
- M. Sharifi, **H. Salimi** and E. Asadi, “*ALAMUT: A High Performance Network Intrusion Detection System in Support of Virtualized Environments*”, Security and Communication Networks, ISSN: 1939-0114 (Print); 1939-0122 (Online), Accepted To Appear, 2012.
- **H. Salimi**, M. Najafzadeh, M. Sharifi, “*Advantages, Challenges and Optimizations of Virtual Machine Scheduling in Cloud Computing Environments*”, International Journal of Computer Theory and Engineering, ISSN (Print): 1793-8201, Vol. 4, No. 2, pp. 189-193, April 2012.
- M. Mohsen, **H. Salimi** and M. Najafzadeh, “*Power-Efficient Distributed Scheduling of Virtual Machines using Workload-Aware Consolidation Techniques*”, The Journal of Supercomputing, An International Journal of High-Performance Computer Design, Analysis and Use, ISSN: 0920-8542, Springer, DOI 10.1007/s11227-011-0658-5, Published Online: 14 July 2011, Vol. 59, No. 1, 2012.
- M. Sharifi, M. Najafzadeh and **H. Salimi**, “*Co-Management of Power and Performance in Virtualized Distributed Environments*”, The Sixth International Conference on Grid and Pervasive Computing (GPC 2011), Oulu, Finland, 11th-13th May 2011.
- A. Hamidi, **H. Salimi**, M. Sharifi, “*A Transparent Virtual Machine Monitor Packet Compression Network Service*”, World Conference in Information Technology, Istanbul, Turkey, 2010.
- M. Najafzadeh, **H. Salimi**, M. Sharifi and A. Hamidi, “*VMM-Level Distributed Transparency Provisioning Using Cloud Infrastructure Technology*”, 4th International DMTF Academic Alliance Workshop on Systems and Virtualization Management: Standards and the Cloud, Ontario, Canada, 2010.
- A. Hamidi, **H. Salimi** and M. Sharifi, “*Network Service Provisioning using System Level Virtualization*”, The First Workshop in Provisioning and Management of Service Oriented Architecture and Cloud Computing (PROMASC'10), Tozeur, Tunisia, May 2010.

- A. Rezaei, **H. Salimi** and M. Sharifi, "*Improving Software Dependability using System-Level Virtualization*", Sixth International Symposium on Frontiers of Information Systems and Network Applications (FINA10), Co-located with AINA 2010, Perth, Australia, April 2010.
- **H. Salimi**, M. Sharifi and A.M. Sayyah, "*Analysis of a Replication-Aware Transaction Model by Means of Stochastic Reward Networks*", International Conference on Distributed Frameworks and Applications, Penang, Malaysia, October 2008.
- **H. Salimi**, A.M. Sayyah, M. Sharifi, "*ALMAS: An Application-Level Memory Management Service*", International IEEE Conference on Information and Communication Technologies: from Theory to Application (ICTTA'08), Damascus, Syria, April 2008.
- **H. Salimi**, M. Sharifi, "*OTSX: An Extended Transaction Service in Support of FT-CORBA Standard*", the 7th ACS/IEEE Conference on Computer Systems and Applications (AICCSA'08), Qatar, April 2008.
- M. Sharifi, **H. Salimi**, "*CMI: A Method to Configure CORBA Remote Calls in Support of FT-CORBA Fault-Detection Mechanisms*", Iranian Journal of Science & Technology, Transaction B, Engineering, Vol. 30, No. B6, December 2006.
- **H. Salimi**, M. Sharifi, "*Integrating Replication and Transaction Management Services in CORBA from Replica Consistency Point of View*", the 2nd IEEE International Conference on Information and Communication Technologies: from Theory to Application (ICTTA'06), Damascus, Syria, April 2006.
- M. Sharifi, **H. Salimi**, "*Replication-Aware Transactions: How to Roll a Transaction over Failures*", Lecture Notes in Computer Science (LNCS), No. 2006, Springer Verlag, pp. 203-214, June 2006.
- S. Parsa, S. Lotfi and **H. Salimi**, "*Syntax-Directed and Automatic Analysis of Program Code*", the 11th Annual Int. Computer Conference of the Computer Society of Iran, February 2005, Tehran, IRAN.
- H. Sarmadi, F. Shams and **H. Salimi**, "*Logical Circuits*", Sanjesh Press, Tehran, Iran, 2006.
- **H. Salimi**, "*NGMF: A Generic Framework for Constructing Graph-Based Systems*", Accepted Student Paper in the 19th International Conference on Object Oriented Programming, Systems, Languages and Applications (OOPSLA'04), October 2004, Vancouver, Canada.
- **H. Salimi**, "*Transforming Single-User Applications to Distributed Ones*", Accepted and Ranked 2nd paper in the 6th Computer Faculty and Student Conference (CFSC6), November 2002, Tehran, Iran.