

Ozgur Koray SAHINGOZ

Assistant Professor

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Education

PostDoc : Twente Research and Education on Software Engineering (TRESE), Faculty of Electrical Engineering, Mathematics and Computer Science, Twente University, Enschede, Netherlands, September 2011- September 2012.

PhD : Computer Engineering, Istanbul Technical University, Istanbul, Turkey, 2006.

MS : Computer Engineering, Istanbul Technical University, Istanbul, Turkey, 1998.

BS : Computer Engineering, Bogazici University, Istanbul, Turkey, 1993.

Research Areas

- Artificial Intelligence, Software Engineering, Parallel and Distributed Computing, Soft Computing, Information Systems, Intelligent Agents, Multi Agent Systems, Mobile and Wireless Communication, Ad Hoc Networks and Sensor Networks.

Journal Papers

- "Agent-Based Fault Tolerant Distributed Event System", Sahingoz, O.K., Sonmez, A.C., Computing and Informatics, Vol. 26/5, 489-506, 2007. (SCI-Expanded)
- "Mobile Agent Based Publication Alerting System", Sahingoz, O.K., Sonmez, A.C., Lecture Notes in Computer Science Vol. 3993: 903-907, 2006. (SCI-Expanded)
- "Fault Tolerance Mechanism of Agent-Based Distributed Event System", Sahingoz, O.K., Sonmez, A.C., Lecture Notes in Computer Science Vol. 3993: 192-199, 2006. (SCI-Expanded)
- "An Agent Based Supply Chain System with Neural Network Controlled Processes", Ermis, M., Sahingoz, O.K., Ulenin, F., Lecture Notes in Computer Science, Vol. 3314: 837-846, 2004. (SCI-Expanded)

- "Dispatching Mechanism of an Agent-Based Distributed Event System", Sahingoz, O.K., Erdogan, N., Lecture Notes in Computer Science, Vol. 3036: 184-191, 2004. (SCI-Expanded)
- "A Two-Leveled Mobile Agent System for E-Commerce with Constraint-Based Filtering", Sahingoz, O.K., Erdogan, N., Lecture Notes in Computer Science, Vol. 3036: 437-440, 2004. (SCI-Expanded)
- "A Distributed Execution Environment for Shared Java Objects", Erdogan N., Selcuk Y. E., Sahingoz O. K., Information and Software Technology, Elsevier, Vol. 46/7, 445-455, 2004. (SCI-Expanded)
- "MAPSEC: Mobile-Agent Based Publish/Subscribe Platform for Electronic Commerce", Sahingoz O. K., Erdogan N., Lecture Notes in Computer Science, Vol. 2869/2003, 348-355, 2003. (SCI-Expanded)
- "RUBDES: Rule Based Distributed Event System", Sahingoz O. K., Erdogan N., Lecture Notes in Computer Science, Vol. 2869/2003, 284-291, 2003. (SCI-Expanded)
- "A Two-Leveled Mobile Agent System for Electronic Commerce", Sahingoz O. K., Erdogan N. Journal of Aeronautics and Space Technologies, Vol.1/2, 21-32, 2003, ISSN 1304-0448.

Conference Papers

- **"Distributed Agent-Based Ant Colony Optimization System Design"**, Musa ÜNSAL, Ozgur Koray Sahingoz, Academic IT 2012 Conference, 1 - 3 February 2012, Usak, Turkey. (in Turkish)
- **"Secure Communication in Distributed System Programming with Aspect Oriented Approach"**, Ozgur Koray Sahingoz, Academic IT 2012 Conference, 1 - 3 February 2012, Usak, Turkey. (in Turkish)
- **"The Use of Agent Based Technologies in Ant Colony Optimization Applications"**, Musa UNSAL, Ozgur Koray SAHINGOZ, In Proceedings of the XVI. Turkish Internet Conference, 30 November-2 December 2011, Izmir-TURKEY (in Turkish)
- **Fuzzy Logic Injury Design for Crowd Modeling"**, Emin Kugu, Frederic D. McKenzie, Jiang Li, and Ozgur Koray Sahingoz. MMS '11 Proceedings of the 2011 Military Modeling & Simulation Symposium, Society for Computer Simulation International San Diego, Pages: 66-72, ACM, April 4 - 7, 2011, Boston Marriott Long Wharf Hotel; Boston, MA, USA
- **Wireless Sensor Networks Based On Publish/Subscribe Messaging Paradigms"**, Hakan Cam, Ozgur Koray Sahingoz and A. Coskun Sonmez, The 6th International Conference on Grid and Pervasive Computing (GPC 2011), 11-13 May 2011, Oulu, Finland, 2011

- **Mobility of Users in Sinkless Wireless Sensor Networks"**, Ozgur Koray Sahingoz, International Workshop on Telecommunications-IWT 2011, 03-06 May 2011, Rio de Janeiro, Brazil, 2011
- **Agent based Meeting Scheduling in Hierarchical Organizations"**, Ozgur Koray Sahingoz, International Symposium on Information Technology 2010 (ITSim 2010), 15-17 June 2010, Kuala Lumpur, Malaysia, 2010
- **Multi Agent Design and Implementation of Crowd Injury Model"**, Emin Kugu, Frederic D. McKenzie, Jiang Li and Ozgur Koray Sahingoz, Spring Simulation Multi-Conference, SpringSIM'10, article no: 11, ACM, 11-15 April 2010, Orlando, Florida, USA
- **Integration of Multi Agent Systems with Wireless Sensor Networks"**, Hakan Cam, Ozgur Koray Sahingoz and A. Coskun Sonmez, National Avionic and System Integration Symposium, 29-30 April 2010, Istanbul, Turkey (In Turkish)
- **MULEP-A Multi Level E-Procurement System with Distributed Agents"** Ozgur Koray Sahingoz and Emre Oztas, World Congress on Engineering, JUL 01-03, 2009 Imperial Coll London, ENGLAND, Book Series: Lecture Notes in Engineering and Computer Science Vols I and II, Pages: 153-157, 2009
- **Mobility of Wireless Clients in Agent-based Distributed Event System"**, O.K. Sahingoz and A.C. Sonmez, Wireless and Optical Communications (WOC 2007), Montreal, Canada, 2007.
- **"Mobile Agent Based Supply Chain Modeling with Neural Network Controlled Services "**, Ermis M., Sahingoz O. K., Ulengin F. Proceedings. of Fourth International ICSC Symposium on Engineering of Intelligent Systems (EIS 2004) Madeira, Portugal, 2004.
- **"An Agent Based Distributed Event System Framework"**, Sahingoz O. K., Erdogan N., Proceedings. of 3rd Asian Pacific International Symposium on Information Technology (APIS 2004) Istanbul, Turkey, 2004.
- **"AGVENT: Agent Based Distributed Event System"**, Sahingoz O. K., Erdogan N., Proceedings of 30th The Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2004) Prag, Czech Republic, 2004.
- **"RUBCES: Rule Based Composite Event System"**, Sahingoz O. K., Erdogan N., The IJISIP Proceedings (ISSN-1304-4117), Volume: 1, Number :1, July 2003, International XII. Turkish Symposium Of Artificial Intelligence and Neural Networks (TAINN 2003), Turkey, 2003.
- **"A Java-Based DSM System for User Defined Shared Data Objects"**, Sahingoz O. K., Erdogan N., Software and Hardware Engineering for the 21st Century, Editor: N.E. Mastorakis, World Scientific and Engineering Society Press (WSES_Press), ISBN:960-8052-06-8, 1999.

Teaching

- BLG 522 - Multi Agent Systems (Spring 2011, Spring 2010, Spring 2009, Spring 2008) (MS Lecture (Computer Engineering))

- CSE 005 – Mobile and Wireless Networks (Spring 2011, Fall 2010, Summer 2010, Fall 2009, Spring 2009)
- CSE 430 – Computer Organization (Spring 2011)
- BLG 441 – Computer Networks (Fall 2010)
- BLG 101 - Introduction to Computer Programming in Java (Fall 2010, Spring 2010, Fall 2009, Fall 2008, Fall 2007)
- BLG 463 – Artificial Intelligence (Summer 2010, Fall 2009, Summer 2009, Spring 2009)
- CSE 638 – Computer Networks (Spring 2010)
- BLG 202 - Object Oriented Programming (Spring 2010, Spring 2009, Spring 2008, Spring 2007, Spring 2006, Spring 2005)
- BLG 211 - Data Structures and Algorithms (Fall 2009, Fall, 2008, Fall 2007, Fall 2006)
- CSE – Advanced Java Programming (Fall 2008)
- CSE 003 – Embedded Systems (Summer 2009, Fall 2008)
- BLG 451 - Software Engineering (Spring 2005, Spring 2004, Spring 2003, Spring 2002, Spring 2001)
- BLG 423 - File Organization (Fall 2005, Fall 2004, Fall 2003, Fall 2002)
- BLG 304 - Advanced Programming (Spring 2000)
- BLG 431 - Compiler Design (Fall 2000)
- BLG 101 - Introduction to Computer Programming in Pascal (Fall-Spring 2000, Fall-Spring 1998, Fall-Spring 1997, Fall-Spring 1996, Fall-Spring 1995)

PHD Theses Supervised

- Hakan ÇAM - "Information Management in Sensor Networks" (In Progress)
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Msc Theses Supervised

- Musa UNSAL - "Agent based Bio-Inspired Search System " (In Progress)
 - Nevzat OFLAMAZ - "Mobile System Developing in Micro Devices " (Completed in 2010)
 - Emre OZTAS - "Agent Based Multi Level Supply Chain Management" (Completed in 2009)
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Executive Activities

- Administrative Board Member of Turkish Aeronautics and Space Technologies Institute, September 2009-September 2011
- Vice President of Computer Engineering Department (in Turkish Air Force Academy) since 2008
- Editorial Board Member of Journal of Aeronautics and Space Technologies since January 2004 (indexed in EBSCO's databases)
- Editor of National Software Quality and Software Development Tools Conference (in Turkish), December, 2010, Istanbul, Turkey
- Editor of National Avionic and System Integration Symposium (in Turkish), 29-30 April, 2010, Istanbul, Turkey
- Editor of National Software Quality and Software Development Tools Conference (in Turkish), October, 2008, Istanbul, Turkey
- Organizing Committee Member of National Software Quality and Software Development Tools Conference (in Turkish), December, 2010, Istanbul, Turkey
- Organizing Committee Member of National Avionic and System Integration Symposium (in Turkish), April, 2010, Istanbul, Turkey
- Organizing Committee Member of National Software Quality and Software Development Tools Conference (in Turkish), October, 2008, Istanbul, Turkey
- Member of Academic Supervision Board of Turkish Air Force Academy since September 2007

Reviewer for Journals

- Reviewer of the Journal of Supercomputing (Springer), an International Journal of High-Performance Computer Design, Analysis, and Use, ISSN 0920-8542, (Science Citation Index Expanded)
- Reviewer of SIMULATION: Transactions of The Society for Modeling and Simulation International, (Print ISSN: 0037-5497 Online ISSN: 1741-313), (Science Citation Index Expanded)
- Reviewer of International Journal of Fuzzy Systems (ISSN 1064-1246), (Science Citation Index Expanded)
- Reviewer of the Journal of WSEAS TRANSACTIONS on SYSTEMS, Print ISSN: 1109-2777, E-ISSN: 2224-2678
- Reviewer of UBICC, the Ubiquitous Computing and Communication Journal, ISSN 1992-8424
- Reviewer of ENIGMA – Brazilian Journal of Information Security and Cryptography
- Reviewer of Journal of Aeronautics and Space Technologies (*indexed* in EBSCO's databases)
- Proposal reviewer and referee for TUBITAK-TEYDEB-Industrial Research and Development Projects. (2007)

Program Comittee Membership

- [The Eighth IASTED International Conference on Advances in Computer Science and Engineering ~ACSE 2013~](#), April 10 – 12, 2013, Phuket, Thailand
- [2012 IEEE Conference on Control, Systems & Industrial Informatics \(ICCSII 2012\)](#), September 23-26, 2012 | Hyatt Hotel, Bandung, Indonesia
- [2012 IEEE Colloquium on Humanities, Science and Engineering Research \(CHUSER 2012\)](#), 3 to 4 December 2012, Kota Kinabalu, Sabah, Malaysia.
- [The Eighth International Conference on Next Generation Web Services Practices \(NWeSP 2012\)](#), November 21-23 2012, São Carlos, Brazil. (indexed in IEEE)
- [The 2012 IEEE International Conference on Power and Energy \(PECON 2012\)](#), 2 – 5 December 2012, Malaysia.
- [The 12th International Conference on Intelligent Systems Design and Applications \(ISDA-2012\)](#), November 27-29, 2012, Kochi, India (indexed in IEEE)
- [The 24th IASTED International Conference on Parallel and Distributed Computing and Systems ~PDCS 2012~](#), November 12 – 14, 2012, Las Vegas, USA.
- [The Fourth International Conferences on Pervasive Patterns and Applications-PATTERNS 2012](#), July 22-27, 2012 - Nice, France.
- [The 4th International Conference on Soft Computing and Pattern Recognition \(SoCPaR'12\)](#), December 13-15, 2011, Brunei.
- [The 2012 IEEE Symposium on Business, Engineering and Industrial Applications \(ISBEIA2012\)](#), 23 – 26 September 2012, Bandung, Indonesia.

- [2012 International Conference on Logistics, Informatics and Services Sciences \(LISS'2012\)](#), 12-15 July, 2012, Beijing, China (indexed in Springer).
- [The 2012 IEEE Symposium on Industrial Electronics & Applications \(ISIEA 2012\)](#), 23 – 26 September 2012, Bandung, Indonesia.
- [The Fourth International Conference on Networked Digital Technologies \(NDT 2012\)](#), April 24-26, 2012, Dubai (indexed in Springer)
- [IEEE Applied Power Electronics Colloquium \(IAPEC 2012\)](#), 7 – 8 April 2012, Kuala Lumpur, Malaysia.
- [7th International Conference on Hybrid Artificial Intelligence Systems \(HAIS 2012\)](#), March 28th-30th, 2012, Salamanca Spain.(indexed in Springer)
- [IEEE Business Engineering and Industrial Applications Colloquium 2012 \(IEEE BEIAC 2012\)](#), 7 – 8 April 2012, Kuala Lumpur, Malaysia
- [The Fourth International Conference on Computational Aspects of Social Networks \(CASoN 2012\)](#), November 21-23 2012, São Carlos, Brazil (indexed in IEEE)
- [IEEE Symposium on Humanities, Science and Engineering Research \(SHUSER 2012\)](#), 24 - 27 June 2012, Kuala Lumpur, Malaysia
- [The Seventh IASTED International Conference on Advances in Computer Science and Engineering ~ACSE 2012~](#) April 2 – 4, 2012, Phuket, Thailand
- [23rd IASTED International Conference on Parallel and Distributed Computing and Systems \(PDCS 2011\)](#), December 14 to 16, 2011, Dallas, USA
- [9th IEEE Student Conference on Research and Development \(SCORED-2011\)](#), 19–20 December 2011, Putrajaya, Malaysia
- [Third International Conference on Computational Aspects of Social Networks-CASoN 2011](#), October 19-21, 2011 in Salamanca, Spain. (indexed in IEEE)
- [IEEE EUROCON 2011 - International Conference on Computer As A Tool](#), April 27-29, 2011, IST Congress Center, Lisbon - PORTUGAL
- [2011 International Conference on Business, Engineering and Industrial Applications \(ICBEIA2011\)](#), Kuala Lumpur, Malaysia, 5 - 8 June 2011 (indexed in IEEE)
- [International Conference on Logistics, Informatics and Service Science \(LISS-2011\)](#), 8-11 June 2011, Beijing, Jiaotong University, China
- [IEEE Colloquium on Humanities, Science and Engineering Research \(CHUSER 2011\)](#) 5-6 December 2011, Penang, Malaysia
- [IEEE Symposium on Business, Engineering And Industrial Applications \(ISBEIA2011\)](#), 25 – 28 September 2011, Langkawi, Malaysia
- [11th International Conference on Hybrid Intelligent Systems\(HIS\) 2011](#), December 5-8, Malacca, Malaysia.
- [Seventh International Conference on Next Generation Web Services Practices-NWeSP 2011](#), October 19-21, 2011 in Salamanca, Spain. (indexed in IEEE)
- [6th International Conference on Hybrid Artificial Intelligence Systems \(HAIS 2011\)](#), 23 to 25 May, 2011 in Wroclaw, Poland.(indexed in Springer)
- [9th International Conference on Practical Applications of Agents and Multi-Agent Systems](#), University of Salamanca, Spain, 6-8th April, 2011 (Computer Science Conference Ranking based on the "Estimated Impact of Conference (EIC)", concretely in position 52 among 701 considered (in the Artificial Intelligence field)).

- [IEEE Applied Power Electronics Colloquium \(IEEE-IAPEC 2011\)](#), Johor Bahru / Malaysia, 21 - 22 March 2011
- [Third International Conference on Networked Digital Technologies \(NDT 2011\)](#), University of Macau, Macau, China from July 11-13, 2011 (indexed in Springer)
- [IEEE Symposium on Industrial Electronics & Applications \(ISIEA 2011\)](#), 25 – 28 September 2011, Langkawi, Malaysia
- [The Fourteenth IASTED International Conference on Artificial Intelligence and Soft Computing-ASC 2011](#), June 22 – 24, 2011, Crete, Greece
- [13th International Conference on Enterprise Information Systems- ICEIS 2011](#), Beijing, China, 7 - 10, June 2011
- [The Tenth IASTED International Conference on Parallel and Distributed Computing and Networks, PDCN 2011](#), 15 – 17 February, 2011, Innsbruck, Austria
- [IEEE Symposium on Industrial Electronics and Applications \(ISIEA 2010\)](#), 3–6 October 2010, Penang, Malaysia
- [The International Conference on Soft Computing and Pattern Recognition, \(SoCPaR 2010\)](#), Paris, France, December 7-10, 2010. (indexed in IEEE)
- [International Conference on Integrated Intelligent Computing \(ICIIC 2010\)](#), August 05-07, 2010, Bangalore, India (indexed in IEEE)
- [5th International Conference on Hybrid Artificial Intelligence Systems \(HAIS 2010\)](#), 23 to 25 June, 2010 in San Sebastian, Spain.(indexed in Springer)
- [12th International Conference on Enterprise Information Systems - ICEIS 2010](#), 8 - 12 June, 2010, Funchal, Madeira - Portugal
- [International Conference on the Business and Digital Enterprises \(ICBDE 2010\)](#), July, 22 to 24 2010, Bangalore, India
- [Second International Conference on Networked Digital Technologies \(NDT 2010\)](#), July 7 to 9, 2010, Charles University, Prague, Czech Republic (indexed in Springer)
- [IASTED International Conference on Parallel and Distributed Computing and Networks \(PDCN 2010\)](#) February 16 – 18, 2010, Innsbruck, Austria
- [International Conference on Informatics Cybernetics, and Computer Applications \(ICICCA2010\)](#), 19 to 20 July, 2010, Bangalore, India
- 3rd National Symposium of Network and Information Security (ABGS 2010), Ankara, Turkey, February 5-6, 2010
- [Fourth International Conference on Computer Sciences and Convergence Information Technology \(ICCIT 2009\)](#), 24-26 November 2009, Seoul, Korea
- [The 2009 International Conference on Information and Knowledge Engineering\(IKE'09\)](#), Las Vegas, Nevada, USA (July 13-16, 2009)
- [Thirteenth IASTED International Conference on Artificial Intelligence and Soft Computing \(ASC 2009\)](#), Palma de Mallorca, Spain, September 7 – 9, 2009.
- [The 2nd International Conference on Interaction Sciences: Information Technology, Culture and Human \(ICIS 2009\)](#), November 24 to 26 2009, Seoul, Korea
- [The International Conference on Soft Computing and Pattern Recognition, \(SoCPaR 2009\)](#), Malacca, Malaysia, December 4-7, 2009.

- [8th International Conference on Computer Information Systems and Industrial Management Applications \(CISIM 2009\)](#) , December 09-11, 2009, Coimbatore, India
 - [ICAI'09 - The 2009 International Conference on Artificial Intelligence](#), Las Vegas, Nevada, USA (July 13-16, 2009)
 - [4th International Conference on Hybrid Artificial Intelligence Systems \(HAIS 2009\)](#), June 10-12th, 2009, Salamanca, Spain
 - [IASTED International Conference on Wireless and Optical Communications \(WOC 2009\)](#), July 06-08, 2009, Banff, Alberta, Canada.
 - [11th International Conference on Enterprise Information Systems - ICEIS 2009](#), 6 - 10 May 2009, Milan, Italy
 - [IASTED International Conference on Parallel and Distributed Computing and Networks \(PDCN 2009\)](#) February 16 – 18, 2009, Innsbruck, Austria
 - IKE'08 - The 2008 International Conference on Information and Knowledge Engineering, Las Vegas, Nevada, USA (July 14-17, 2008)
 - [Twelfth IASTED International Conference on Artificial Intelligence and Soft Computing \(ASC 2008\)](#), Palma de Mallorca, Spain, September 1 – 3, 2008.
 - [Eighth International Conference on Intelligent Systems Design and Applications \(ISDA 2008\)](#), Kaohsiung City, Taiwan, November 26-28, 2008.
 - 2nd Istanbul Information Congress-Institutional Software 2008(in Turkish), Istanbul, Turkey, June 3-4, 2008.
 - [2008 International Conference on Parallel and Distributed Processing Techniques and Applications \(PDPTA'08\)](#), Las Vegas, Nevada, USA (July 14-17, 2008)
 - [1st International Symposium on Intelligent Interactive Multimedia Systems and Services, University of Piraeus](#), Greece, 9-11 July 2008
 - [IASTED International Conference on Sensor Networks \(SN 2008\)](#), Crete, Greece, September 2008
 - ICAI'08 - The 2008 International Conference on Artificial Intelligence, Las Vegas, Nevada, USA (July 14-17, 2008)
 - Program Committee Member of Turkish Air Force Academy Science Festival Istanbul, Turkey, May, 2008
- Program Committee Member of Turkish Air Force Academy Science Festival Istanbul, Turkey, May, 2007