

Personal information

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Date of birth

Girgin, Sertan

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sertan.girgin@inria.fr

Turkish

October 19, 1979

Currently, working as a postdoc researcher at INRIA Lille Nord Europe, Team-project SequeL.



Education

March 2007

Ph.D. on BS in Computer Engineering, Middle East Technical University, Ankara. (M.Sc. in 2003)

Title of thesis "Abstraction in Reinforcement Learning"

2000

B.Sc. in Mathematics (double major), Middle East Technical University, Ankara.

2000

B.Sc. in Computer Engineering, Middle East Technical University, Ankara.

1996

Gazi Anatolian High School

Work Experience

September 2009 -

Post-doc researcher

Team-Project SequeL, INRIA Lille Nord Europe, France.

August 2008 - August 2009

Military service

Communication and Electronic Information Systems, Gülhane Military Medical Academy (GATA), Turkey.

July 2007 - August 2008

Post-doc researcher

Team-Project SequeL, INRIA Lille Nord Europe, France.

March - July 2007

Research fellow

KOVAN Research Group, Department of Computer Engineering, Middle East Technical University, Ankara, Turkey.

January - December 2006

Researcher and Teaching Assistant

Department of Computer Science, University of Calgary, Calgary, AB, Canada.

August 2000 - March 2005

Teaching and Research Assistant

Department of Computer Engineering, Middle East Technical University, Ankara, Turkey.

2001 - 2004

Researcher and Developer

Modeling and Simulation Research and Development Center, Middle East Technical University, Ankara, Turkey.

– Agent Based Modeling and Simulation of Small Scale Tactical Operations Project (SAV-MOS), 2003-2004.

* Developed a semi-autonomous agent model, with both reactive and deliberative abilities, for a heterogeneous simulation system.

– Sensor Simulation Project (SENSIM), 2001-2002.

* Responsible for the design and implementation of a genetic algorithm based optimizer for maximizing sensor coverage on 3D terrain.

July - August 1999

Trainee

The Scientific and Technological Research Council of Turkey, International Olympiad in Informatics (IOI)'99.

Publications

Celik B., Girgin S., Yazici A., Unlu K., *A decision support system for assessing landfill performance, Waste Management, Volume 30, Issue 1, January 2010.*

Kuru K., Girgin S., Arda K., Bozlar U., Akgun V., *Developing Diagnostic DSSs Based on a Novel Data Collection Methodology, Proceedings of the 3rd International Conference on Knowledge Science, Engineering and Management (KSEM), 2009.*

Kuru K., Girgin S., Arda K., *A Novel Multilingual Report Generation System for Medical Applications, Proceedings of the 12th Conference on Artificial Intelligence in Medicine (AIME), 2009.*

Preux P., Girgin S., Loth M., *Feature Discovery in Approximate Dynamic Programming, Proceedings of the IEEE International Symposium on Adaptive Dynamic Programming and Reinforcement Learning (ADPRL), 2009.*

Girgin S., Preux P., *Basis Function Construction in Reinforcement Learning using Cascade-Correlation Learning Architecture, Proceedings of the 7th International Conference on Machine Learning and Applications (ICMLA), 2008 (an earlier version also presented at ERLARS workshop at ECAI'08).*

Girgin S., Preux P., *Basis Expansion in Natural-Actor Critic Methods, Proceedings of the 8th European Workshop on Reinforcement Learning, 2008.*

Girgin S., Preux P., *Feature Discovery in Reinforcement Learning using Genetic Programming, Proceedings of the Eleventh European Conference on Genetic Programming (EuroGP), 2008 (nominated for the best paper award).*

Sahin E., Girgin S., Bayindir L. and Turgut A. E., *Swarm Robotics, Swarm Intelligence: Introduction and Applications (eds. Blum C. and Merkle D.), Natural Computing Series, Springer Verlag, Berlin, Germany, 2008.*

Girgin S., Polat F., and Alhajj R., *Positive Impact of State Similarity on Reinforcement Learning Performance, IEEE Transactions on Systems, Man, and Cybernetics Part B: Cybernetics, 2007.*

Girgin S., Polat F., and Alhajj R., *State Similarity Based Approach for Improving Performance in RL, Proceedings of the 20th International Joint Conference on Artificial Intelligence (IJCAI), pp 817-822, 2007.*

Sahin E., Girgin S., and Ugur E., *Area Measurement of large closed regions with a mobile robot, Autonomous Robots, Vol. 21, No. 3, pp 255-266, November 2006.*

Girgin S., Polat F., and Alhajj R., *Effectiveness of Considering State Similarity for Reinforcement Learning, Proceedings of the 7th International Conference on Intelligent Data Engineering and Automated Learning (IDEAL), 2006.*

Girgin S., Polat F., and Alhajj R., *Learning by Automatic Option Discovery from Conditionally Terminating Sequences, Proceedings of the 17th European Conference on Artificial Intelligence (ECAI), 2006.*

Girgin S., and Polat F., *Option Discovery in Reinforcement Learning using Frequent Common Subsequences of Actions, Proceedings of International Conference on Intelligent Agents, Web Technologies and Internet Commerce (IAWTIC), 2005.*

Polat F., Cosar A., Girgin S., Tan M., Cilden E., Balci M., Gokturk E., Kapusuz E., Koc V., Yavas A., and Undeger C., *Küçük Ölçekli Harekatın Modellenmesi ve Simülasyonu, USMOS'05 I. Ulusal Savunma Uygulamaları Modelleme ve Simülasyon Konferansı, 2005, Ankara, Turkey.*

Girgin S. and Sahin E., *Blind area measurement with mobile robots*, *Proceedings of the 8th Conference on Intelligent Autonomous Systems (IAS 8)*, Amsterdam, The Netherlands, 2004. (Also published as technical report CMU-RI-TR-03-42, Carnegie Mellon University, Pittsburgh, USA, October 2003.)

Undeger C., Balci M., Girgin S., Koc V., Polat F., Bilir S. and Ipekkan Z., *Platform Optimization and Simulation for Surveillance of Large Scale Terrains*, *Proceedings of Interservice/Industry Training, Simulation and Education Conference*, 2002.

Academic Grants

December 2005 - December
2006

Discovery of Temporal Abstraction and Hierarchical Structure in Reinforcement Learning, The Scientific and Technical Research Council of Turkey, Project No. 105E181(HD-7).

Previous Responsibilities

2003

Member of Organization Committee, XVIII. International Symposium on Computer and Information Sciences (ISCIS).

200-2004

Member of Technical Committee, National Olympiad in Informatics (UBILO).

1999

Member of Technical Committee, International Olympiad in Informatics (IOI) '99.

Personal Achievements

2000

Best Graduation Project Reward, "Comparison of Genetic Operators in OBDD Variable Ordering Problem", Department of Computer Engineering, Middle East Technical University, Ankara, Turkey

1996

2nd Place, II. Programming Contest, ACM-SIGART and Computer Society of Bilkent University, Ankara, Turkey.

1995

Member of National Team, Balkan Olympiad in Informatics.

1994

Bronze Medal, II. National Olympics in Informatics, The Scientific and Technical Research Council of Turkey.

1994

1st Place, Golden Diskette '94 Programming Contest, PCWORLD Turkey.

1993

1st Place, Golden Diskette '93 Programming Contest, PCWORLD Turkey.

Hobbies

Outdoor sports (XC Skiing, Orienteering, Running, Bicycling, Canoeing), Amateur Radio Operator (TA2MFB, 1999-), Amateur Seaman (2004-)