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CURRENT RESEARCH INTERESTS

- Agent-oriented Software Engineering
- Model-driven development of software systems
- Domain-specific (modeling) languages (DSLs / DSMLs)
- Semantic Web and Semantic Web Services
- Software development processes and methodologies

PUBLICATIONS

Journal Articles

- [1] **Kardas, G.** and Gomez-Sanz, J. J. (2017) "[Special issue on Model-driven Engineering of Multi-agent Systems in Theory and Practice](#)", Computer Languages, Systems & Structures, vol. 50, pp. 140-141, DOI: 10.1016/j.cl.2017.07.002 (Guest Editorial).
- [2] **Kardas, G.**, Bircan, E. and Challenger, M. (2017) "*Supporting the platform extensibility for the model-driven development of agent systems by the interoperability between domain-specific modeling languages of multi-agent systems*", Computer Science and Information Systems (**in press**).
- [3] Challenger, M., **Kardas, G.** and Tekinerdogan, B. (2016) "[A systematic approach to evaluating domain-specific modeling language environments for multi-agent systems](#)", Software Quality Journal, vol. 24, no. 3, pp. 755-795, DOI: 10.1007/s11219-015-9291-5.
- [4] Challenger, M., Mernik, M., **Kardas, G.** and Kosar, T. (2016) "[Declarative specifications for the development of multi-agent systems](#)", Computer Standards & Interfaces, vol. 43, pp. 91-115, DOI: 10.1016/j.csi.2015.08.012.
- [5] Yildirim, S., Sayit, M. and **Kardas, G.** (2015) "[A belief-desire-intention agent architecture for partner selection in peer-to-peer live video streaming applications](#)", Expert Systems, vol. 32, no. 3, pp. 327-343, DOI: 10.1111/exsy.12086.
- [6] Yildirim, O. and **Kardas, G.** (2014) "[A multi-agent system for minimizing energy costs in cement production](#)", Computers in Industry, vol. 65, no. 7, pp. 1076-1084, DOI: 10.1016/j.compind.2014.05.002.
- [7] Getir, S., Challenger, M. and **Kardas, G.** (2014) "[The formal semantics of a domain-specific modeling language for semantic web enabled multi-agent systems](#)", International Journal of Cooperative Information Systems, vol. 23, no. 3, pp. 1-53, DOI: 10.1142/S0218843014500051.
- [8] Teket, K. D., Sayit, M. and **Kardas, G.** (2014) "[Software agents for peer-to-peer video streaming](#)", IET Software, vol. 8, no. 4, pp. 184-192, DOI: 10.1049/iet-sen.2013.0181.
- [9] Saritas, H. B. and **Kardas, G.** (2014) "[A model driven architecture for the](#)

- [development of smart card software](#)", Computer Languages, Systems & Structures, vol. 40, no.2, pp. 53-72, DOI: 10.1016/j.cl.2014.02.001.
- [10] Challenger, M., Demirkol, S., Getir, S., Mernik, M., **Kardas, G.** and Kosar, T. (2014) "[On the use of a domain-specific modeling language in the development of multiagent systems](#)", Engineering Applications of Artificial Intelligence, vol. 28, pp. 111-141, DOI: 10.1016/j.engappai.2013.11.012.
- [11] **Kardas, G.** (2013) "[Model-driven development of multi-agent systems: a survey and evaluation](#)", The Knowledge Engineering Review, vol. 28, Issue 4, pp. 479-503, DOI: 10.1017/S0269888913000088.
- [12] Demirkol, S., Challenger, M., Getir, S., Kosar, T., **Kardas, G.** and Mernik, M. (2013) "[A DSL for the development of software agents working within a semantic web environment](#)", Computer Science and Information Systems, vol. 10, no. 4, pp. 1525-1556, DOI: 10.2298/CSIS121105044D.
- [13] **Kardas, G.**, Challenger, M., Yildirim, S. and Yamuc, A. (2012) "[Design and implementation of a multiagent stock trading system](#)", Software: Practice and Experience, vol. 42, no. 10, pp. 1247-1273, DOI: 10.1002/spe.1137.
- [14] **Kardas, G.** and Erata, F. (2011) "[Model driven development of web based systems by using PSM4MSF metamodel](#)", Turkish Science Research Foundation Journal of Science, vol. 4, no. 2, pp. 131-142 (in Turkish).
- [15] Saritas, H. B. and **Kardas, G.** (2011) "[Model driven development of java card software](#)", Turkish Informatics Foundation Journal of Computer Science and Engineering, vol. 4, pp. 19-28 (in Turkish).
- [16] Afsar, B., **Kardas, G.**, Topaloglu, N. Y. and Dikenelli, O. (2011) "[Model driven development of JADDEX belief-desire-intention agents](#)", Turkish Informatics Foundation Journal of Computer Science and Engineering, vol. 4, pp. 9-18 (in Turkish).
- [17] **Kardas, G.** (2009) "[Experience developing a healthcare smartcard system](#)", Hospital Information & Technology Europe, vol. 2, no. 2, pp. 24-25 (Invited Article).
- [18] **Kardas, G.**, Goknil, A., Dikenelli, O. and Topaloglu, N. Y. (2009) "[Model driven development of semantic web enabled multi-agent systems](#)", International Journal of Cooperative Information Systems, vol. 18, no. 2, pp. 261-308, DOI: 10.1142/S0218843009002014.
- [19] **Kardas, G.**, Celikel, E. and Alaybeyoglu, A. (2008) "[A secure message transmission system architecture for computer networks employing smart cards](#)", Pamukkale University Journal of Engineering Sciences, vol. 14, no. 1, pp. 31-40 (in Turkish).
- [20] **Kardas, G.** and Tunali, E. T. (2006) "[Design and implementation of a smart card based healthcare information system](#)", Computer Methods and Programs in Biomedicine, vol. 81, no. 1, pp. 66-78, DOI: 10.1016/j.cmpb.2005.10.006.

Conference and Workshop Papers

- [1] Erata, F., Gardent, C., Gyawali, B., Shimorina, A., Lussaud, Y., Tekinerdogan, B., **Kardas, G.**, Monceaux, A. (2017) "[ModelWriter: Text & Model-Synchronized Document Engineering Platform](#)", In proceedings of the 32nd IEEE/ACM International Conference on Automated Software Engineering (ASE 2017), October 30 - November 3, 2017, Urbana-Champaign, Illinois, USA, ACM Press (**accepted**).
- [2] Konaray, S. K., Aras, G., Akcekoce, H., Alaca, O. F., Challenger, M., **Kardas, G.** (2017) "[Development of a Semantic Web based Activity Recommender Software](#)", In proceedings of the 11th Turkish National Software Engineering Symposium (UYMS 2017), October 18-20, 2017, Antalya, Turkey, CEUR Workshop Proceedings (in Turkish) (**accepted**).
- [3] Cakmaz, Y. E., Alaca, O. F., Durmaz, C., Akdal, B., Tezel, B., Challenger, M., **Kardas, G.** (2017) "[Engineering a BDI Agent-based Semantic e-Barter System](#)", In proceedings of the 2nd International Conference on Computer Science and Engineering (UBMK 2017), October 5-8, 2017, Antalya, Turkey, IEEE Conference Publications (**accepted**).
- [4] Arslan, S., Turk, E., **Kardas, G.** (2017) "[A Study on the Use of Device Tree](#)"

Structures for Embedded Software Development, In proceedings of the 2nd International Conference on Computer Science and Engineering (UBMK 2017), October 5-8, 2017, Antalya, Turkey, IEEE Conference Publications (in Turkish) **(accepted)**.

- [5] Erata, F., Goknil, A., Tekinerdogan, B., **Kardas, G.** (2017) "[A Tool for Automated Reasoning about Traces based on Configurable Formal Semantics](#)", In proceedings of the 11th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2017), September 4-8, 2017, Paderborn, Germany, ACM Press, pp. 959-963, DOI: 10.1145/3106237.3122825.
- [6] Durmaz, C., Challenger, M., Dagdeviren, O., **Kardas, G.** (2017) "*Modelling Contiki-based IoT Systems*", In proceedings of the 6th Symposium on Languages, Applications and Technologies (SLATE 2017), Track on Human-Computer Languages, June 26-27, 2017, Vila do Conde, Portugal, OpenAccess Series in Informatics **(in press)**.
- [7] Erata, F., Challenger, M., Tekinerdogan, B., Monceaux, A., Tüzün, E. and **Kardas, G.** (2017) "[Tarski: A Platform for Automated Analysis of Dynamically Configurable Traceability Semantics](#)", In proceedings of the 32nd ACM SIGAPP Symposium on Applied Computing (SAC 2017), Technical Track on Programming Languages, April 3-6, 2017, Marrakech, Morocco, ACM Press, pp. 1607-1614, DOI: 10.1145/3019612.3019747.
- [8] Tezel, B. T., **Kardas, G.** and Ugur, A. (2016) "*Fuzzy Logic Based BDI Agents*", In proceedings of the 1st International Conference on Computer Science and Engineering (UBMK 2016), October 20-23, 2016, Tekirdag, Turkey, pp. 237-241 (in Turkish).
- [9] Bircan, E., Challenger, M. and **Kardas, G.** (2016) "[Interoperability of MAS DSMLs via Horizontal Model Transformations](#)", In proceedings of the 4th Workshop on Model Driven Approaches in System Development (MDASD 2016), held in conjunction with 2016 Federated Conference on Computer Science and Information Systems (FedCSIS 2016), September 11-14, 2016, Gdansk, Poland, IEEE Conference Publications, pp. 1555-1564, DOI: 10.15439/2016F196.
- [10] Challenger, M., Erata, F., Onat, M., Gezgen, H. and **Kardas, G.** (2016) "[A Model-driven Engineering Technique for Developing Composite Content Applications](#)", In proceedings of the 5th Symposium on Languages, Applications and Technologies (SLATE 2016), Track on Human-Computer Languages, June 20-21, 2016, Maribor, Slovenia, OpenAccess Series in Informatics, vol. 51, pp. 11:1-11:10, DOI: 10.4230/OASlcs.SLATE.2016.11.
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- [12] Tosun, M. and **Kardas, G.** (2015) "[DSL4JavaCard: A Domain-specific Language for Java Card Platform](#)", In proceedings of the 9th Turkish National Software Engineering Symposium (UYMS 2015), September 9-11, 2015, Izmir, Turkey, CEUR Workshop Proceedings, vol. 1483, pp. 396-407 (in Turkish).
- [13] Erata, F., Challenger, M., Gezgin, S., Demirbas, A., Onat, M. and **Kardas, G.** (2014) "[A Methodology for Supporting the Synchronization between Capability Models and Metamodels in Software Product Lines](#)", In proceedings of the 8th Turkish National Software Engineering Symposium (UYMS 2014), September 8-10, 2014, Guzelyurt, Northern Cyprus, CEUR Workshop Proceedings, vol. 1221, pp. 2-13 (in Turkish).
- [14] Sayit, M., Karayer, E., Teket, K. D., Kaymak, Y., Cetinkaya, C., Demirci, S. and **Kardas, G.** (2013) "[A Score-based Packet Retransmission Approach for Push-Pull P2P Streaming Systems](#)", In proceedings of the 6th International Symposium on Multimedia Applications and Processing (MMAP 2013), held in conjunction with 2013 Federated Conference on Computer Science and Information Systems (FedCSIS 2013), September 8-11, 2013, Krakow, Poland, IEEE Conference Publications, pp. 627-633.

- [15] Teket, K. D., Kaymak, Y., Sayit, M. and **Kardas, G.** (2013) "[*Engineering a Multi-agent System for Peer-to-Peer Video Streaming*](#)", In proceedings of 2013 IEEE International Symposium on Innovations in Intelligent Systems and Applications (INISTA 2013), June 19-21, 2013, Albena, Bulgaria, IEEE Computer Society, pp. 1-7, DOI: 10.1109/INISTA.2013.6577655.
- [16] Sayit, M., Kaymak, Y., Teket, K. D., Cetinkaya, C., Demirci, S. and **Kardas, G.** (2013) "[*Parent Selection via Reinforcement Learning in Mesh-based P2P Video Streaming*](#)", In proceedings of the 10th International Conference on Information Technology: New Generations (ITNG 2013), April 15-17, 2013, Las Vegas, Nevada, USA, IEEE Conference Publications, pp. 546-551, DOI: 10.1109/ITNG.2013.89.
- [17] Demirkol, S., Challenger, M., Getir, S., Kosar, T., **Kardas, G.** and Mernik, M. (2012) "[*SEA L: A Domain-specific Language for Semantic Web enabled Multi-agent Systems*](#)", In proceedings of the 2nd Workshop on Model Driven Approaches in System Development (MDASD 2012), held in conjunction with 2012 Federated Conference on Computer Science and Information Systems (FedCSIS 2012), September 9-12, 2012, Wroclaw, Poland, IEEE Conference Publications, pp. 1373-1380.
- [18] Getir, S., Challenger, M., Demirkol, S. and **Kardas, G.** (2012) "[*The Semantics of the Interaction between Agents and Web Services on the Semantic Web*](#)", In proceedings of the 7th IEEE International Workshop on Engineering Semantic Agent Systems (ESAS 2012), held in conjunction with the 36th IEEE Signature Conference on Computers, Software, and Applications (COMPSAC 2012), 16-20 July 2012, Izmir, Turkey, IEEE Computer Society, pp. 619-624, DOI: 10.1109/COMPSACW.2012.112.
- [19] Kaymak, Y., Teket, K. D., Demirci, S., Getir, S., Erdur, R. C. and **Kardas, G.** (2012) "[*Development of a JACK Belief-Desire-Intention Model-based Multi-agent Library Management System by Using Prometheus Methodology*](#)", In proceedings of the 6th Turkish National Software Engineering Symposium (UYMS 2012), May 30 - June 1, 2012, Ankara, Turkey, pp. 121-128 (in Turkish).
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- [21] Akusta, Z. and **Kardas, G.** (2011) "[*A Case Study on the Development of Electronic Barter Systems using Software Agents*](#)", In proceedings of the 5th Turkish National Software Engineering Symposium (UYMS 2011), September 26-28, 2011, Ankara, Turkey, pp. 123-126 (in Turkish).
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- Systems*", In proceedings of the 3rd Turkish Software Architecture Conference (UYMK 2010), November 4-5, 2010, Ankara, Turkey, pp. 45-54 (in Turkish).
- [26] Saritas, H. B. and **Kardas, G.** (2010) "[Model Driven Development of Smartcard Software](#)", In proceedings of the 3rd Turkish Software Architecture Conference (UYMK 2010), November 4-5, 2010, Ankara, Turkey, pp. 34-44 (in Turkish).
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- [30] Tamersoy, M., Afsar, B., Erata, F. and **Kardas, G.** (2009) "[Analysis and Design of a Multi-agent Conference Management System with Gaia](#)", In proceedings of the 4th Turkish National Software Engineering Symposium (UYMS 2009), October 8-10, 2009, Istanbul, Turkey, pp. 83-90 (in Turkish).
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- [36] **Kardas, G.** and Celikel, E. (2007) "[A Smart Card Mediated Mobile Platform for Secure E-Mail Communication](#)", In proceedings of the 4th International Conference on Information Technology: New Generations (ITNG 2007), April 2-4, 2007, Las Vegas, Nevada, USA, IEEE Computer Society, pp. 925-926, DOI: 10.1109/ITNG.2007.21.

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- [39] Gürcan, Ö., **Kardas, G.**, Gümüş, Ö., Ekinçi, E. E. and Dikenelli, O. (2006) "[A Planner for Implementing Semantic Service Agents based on Semantic Web Services Initiative Architecture](#)", In proceedings of the 4th European Workshop on Multi-Agent Systems (EUMAS 2006), December 14-15, 2006, Lisbon, Portugal, CEUR Workshop Proceedings, vol. 223, pp. 249-259.
- [40] Goknil, A., **Kardas, G.**, Topaloglu, N. Y. and Dikenelli, O. (2006) "[Model Driven Approach for Developing Semantic Web Enabled Agent Systems](#)", In proceedings of the 1st Turkish Software Architecture Conference (UYMK 2006), November 20-21, 2006, Istanbul, Turkey, pp. 177-183 (in Turkish).
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- [42] **Kardas, G.**, Goknil, A., Dikenelli, O. and Topaloglu, N. Y. (2006) "[Metamodeling of Semantic Web Enabled Multiagent Systems](#)", In proceedings of Multiagent Systems and Software Architecture (MASSA) Special Track at Net.ObjectDays 2006, September 18-20, 2006, Erfurt, Germany, pp. 79-86.
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- [47] **Kardas, G.**, Gümüş, Ö. and Dikenelli, O. (2005) "[A Case Study on Discovery, Matching and Dynamic Invocation of Semantic Web Services](#)", In proceedings of the 2nd Turkish National Software Engineering Symposium (UYMS 2005), September 22-24, 2005, Ankara, Turkey, pp. 41-49 (in Turkish).
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Technologies (MATES 2005), September 11-13, 2005, Koblenz, Germany, Lecture Notes in Artificial Intelligence, vol. 3550, pp. 141-152, DOI: 10.1007/11550648_13.

- [49] Erdur, R. C. and **Kardas, G.** (2005) "[Personalized Access to Semantic Web Agents Using Smart Cards](#)", In proceedings of the 11th European Conference on Parallel Processing (Euro-Par 2005), August 30 - September 2, 2005, Lisboa, Portugal, Lecture Notes in Computer Science, vol. 3648, pp. 1110-1119, DOI: 10.1007/11549468_121.
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Dissertation and Theses

- [1] **Kardas, G.** (2008) "[Model Driven Development of Semantic Web Enabled Multi-agent Systems](#)", Ph.D. Dissertation, Ege University, Turkey, 205 pages (in Turkish).
- [2] **Kardas, G.** (2003) "[Use of Smart Cards in Health Records](#)", M.Sc. Thesis, Ege University, Turkey, 249 pages (in Turkish).
- [3] **Kardas, G.**, Bara, G. and Demirezen, Z. (2001) "[A Web based Hotel Reservation System](#)", B.Sc. Thesis, Ege University, Turkey, 222 pages (in Turkish).

PROFESSIONAL ACTIVITIES

- Currently participating in the following projects:
 - “**AgentDSM-Eval: Developing a Framework on Evaluating Domain-specific Modeling Languages for Multi-agent Systems**”, 01.03.2017 – 01.03.2020, the Scientific and Technological Research Council of Turkey (TUBITAK) Academic Research Funding Program Directorate (ARDEB) Electrical, Electronics and Informatics Research Grant Committee (EEEAG) and the Portuguese Foundation for Science and Technology (FCT) funded bilateral research project (with project no: 115E591 and budget: \$91,000) (working as the principal investigator) (acceptance rate of the related bilateral project call: 6%)
 - “**Supporting the Interoperability between Domain-specific Agent Modeling Languages with Horizontal Model Transformations**“, 01.06.2016 – 01.06.2018, Research project funded by the Scientific Research Projects Directorate of Ege University (with project no: 16-UBE-001 and budget: \$13,200) (working as the principal investigator)
 - “[ModelWriter: Text & Model-Synchronized Document Engineering Platform](#)”, 01.10.2014 – 01.10.2017, European Union (EU) EUREKA Information Technology for European Advancement (ITEA) labelled research and development project including 9 project partners from France and Turkey (ITEA project no: 13028 and budget: €4,451,000) (working as the consultant for the project partner KocSistem Information Communication Services Inc.) (This project is also supported by TUBITAK Technology and Innovation Funding Programs Directorate (TEYDEB) with project no: 9140014 and budget: \$1,573,000)
- Completed projects:
 - “**Development of a CANBus-based Ecodriving System for Public Transport Bus Services**”, 01.07.2013 – 30.12.2014, Kentkart Ege Electronics Automatic Fare Collection & Vehicle Tracking Systems Co.’s industrial research and development project supported by TUBITAK TEYDEB (with project no: 3130609)

and budget: \$340,000) (worked as the consultant)

- **“Model Driven Development of Composite Content Applications”**, 01.09.2012 – 01.01.2014, KocSistem Information Communication Services Inc. and Unit Information Technologies Research, Development and Automation Systems Co.’s bilateral industrial research and development project supported by TUBITAK TEYDEB (with project no: 3110712 and budget: \$460,000) (worked as the consultant)
 - **“Development of an Agent based Alternative Path Selection Method for Peer-to-Peer Video Streaming Applications”**, 01.10.2011 – 01.10.2013, TUBITAK ARDEB-EEEAG funded research project (with project no: 111E022 and budget: \$99,000) (worked as the principal investigator)
 - **“A Domain Specific Modeling Language for Semantic Web enabled Multi-agent Systems”**, 01.03.2010 – 01.03.2013, TUBITAK ARDEB-EEEAG and Slovenian Research Agency (ARRS) funded bilateral research project (with project no: 109E125 and budget: \$86,000) (worked as the principal investigator)
 - **“Assessment and Performance Measurement of Semantic Service Discovery Methods on Mobile Platforms”**, 01.11.2009 – 01.11.2012, Research project funded by the Scientific Research Projects Directorate of Ege University (with project no: 2009/UBE/003 and budget: \$9,300) (worked as the principal investigator)
 - **“Model Driven Development of Ontology Based Multi-Agent Systems”**, 01.10.2008 – 01.10.2010, TUBITAK ARDEB-EEEAG funded research project (with project no: 108E141 and budget: \$90,000) (worked as the researcher)
 - **“The Implementation of the Semantic Web Service Architecture and Testing of the Architecture on a Mobile Platform”**, 01.07.2006 – 01.07.2008, TUBITAK ARDEB-EEEAG funded research project (with project no: 106E008 and budget: \$85,000) (worked as the researcher)
 - **“Development of the Bandwidth Measurement Techniques for Wireless Local Area Networks”**, 01.09.2005 – 01.09.2008, Research project funded by the Scientific Research Projects Directorate of Ege University (with project no: 2005/UBE/001 and budget: \$16,000) (worked as the researcher)
 - **“Design and Implementation of a Secure Communication Platform with the Use of Smartcard Mobile Media Enabled Asymmetric Cryptography”**, 01.10.2004 – 04.07.2005, Research project funded by the Scientific Research Projects Directorate of Ege University (with project no: 2004/UBE/001 and budget: \$12,500) (worked as the researcher)
 - **“OPC (OLE for Process Control) based Data Process Control System Development for TUPRAS (Turkish Petroleum Refineries Co.) Aliaga Petroleum Refinery”**, 16.02.2004 – 25.02.2005, Turkish Petroleum Refineries Co. (TUPRAS) and Ege University International Computer Institute’s joint research project (funded by TUPRAS with budget: \$8,500) (worked as the researcher)
 - **“The Implementation of a Parallel Data Processing Platform on Linux based PC Clusters”**, 02.09.2002 – 26.10.2004, Research project funded by the Scientific Research Projects Directorate of Ege University (with project no: 2002/UBE/001 and budget: \$19,000) (worked as the researcher)
- Industrial consultancies for the following corporations:
 - [KocSistem Information Communication Services Inc.](#) (since May 2015)
 - [Kentkart Ege Electronics Automatic Fare Collection & Vehicle Tracking Systems Co.](#) (December 2012 – December 2014)
 - [Unit Information Technologies Research, Development and Automation Systems Co.](#) (November 2012 – December 2013)
 - Editorial board member of [Computer Languages, Systems & Structures](#) journal

- Guest co-editor of Computer Languages, Systems & Structures journal's special issue: "[Model-driven engineering of multi-agent systems in theory and practice](#)" (2017)
- Management committee substitute member of European Cooperation in Science & Technology (COST) Action IC1404: [Multi-Paradigm Modelling for Cyber-Physical Systems \(MPM4CPS\)](#)
- Chapter reviewer for the book: "[Formal and Practical Aspects of Domain-Specific Languages: Recent Developments](#)", edited by Marjan Mernik, published by IGI Global (2013)
- Reviewer for the following journals:
 - [Applied Soft Computing](#)
 - [Computers & Industrial Engineering](#)
 - [Computer Languages, Systems & Structures](#)
 - [Computer Science and Information Systems](#)
 - [Computer Standards & Interfaces](#)
 - [Computer Systems Science & Engineering](#)
 - [DUMF Journal of Engineering](#)
 - [Engineering Applications of Artificial Intelligence](#)
 - [IEEE Access](#)
 - [IEEE Transactions on Knowledge and Data Engineering](#)
 - [IET Software](#)
 - [International Journal of Agent-Oriented Software Engineering](#)
 - [International Journal of Informatics Technologies](#)
 - [International Journal of Software Engineering and Knowledge Engineering](#)
 - [Journal of Experimental & Theoretical Artificial Intelligence](#)
 - [Journal of Software: Evolution and Process](#)
 - [Science of Computer Programming](#)
 - [Software Quality Journal](#)
 - [Turkish Journal of Electrical Engineering & Computer Sciences](#)
- Organizing committee memberships:
 - Doctoral and Master of Science Mentoring Program at 9th Turkish National Software Engineering Symposium (UYMS 2015), September 9-11, 2015, Izmir, Turkey
 - 15th Turkish Symposium on Artificial Intelligence and Neural Networks (TAINN 2006), June 21-24, 2006, Akyaka, Mugla, Turkey
- Program committee memberships:
 - 33rd ACM SIGAPP Symposium on Applied Computing (SAC 2018), Technical Track on Programming Languages, April 9-13, 2018, Pau, France
 - 10th International Conference on Agents and Artificial Intelligence (ICAART 2018), January 16-18, 2018, Madeira, Portugal
 - 11th Turkish National Software Engineering Symposium (UYMS 2017), October 18-20, 2017, Antalya, Turkey
 - 5th Workshop on Advances in Programming Languages (WAPL 2017), held in conjunction with 2017 Federated Conference on Computer Science and Information Systems (FedCSIS 2017), September 4-7, 2017, Prague, Czech

Republic

- 6th Symposium on Languages, Applications and Technologies (SLATE 2017), Track on Human-Computer Languages, June 26-27, 2017, Vila do Conde, Portugal
- 32nd ACM SIGAPP Symposium on Applied Computing (SAC 2017), Technical Track on Programming Languages, April 3-6, 2017, Marrakech, Morocco
- 9th International Conference on Agents and Artificial Intelligence (ICAART 2017), February 24-26, 2017, Porto, Portugal
- 10th Turkish National Software Engineering Symposium (UYMS 2016), October 24-26, 2016, Canakkale, Turkey
- 2nd International Workshop on Human Factors in Modeling (HuFaMo 2016), held in conjunction with the ACM/IEEE 19th International Conference on Model Driven Engineering Languages and Systems (MODELS 2016), October 2 - 7, 2016, Saint-Malo, France
- 6th Turkish Software Architecture Conference (UYMK 2016), September 12-13, 2016, Istanbul, Turkey
- 4th Workshop on Model Driven Approaches in System Development (MDASD 2016), held in conjunction with 2016 Federated Conference on Computer Science and Information Systems (FedCSIS 2016), September 11-14, 2016, Gdansk, Poland
- 10th International Conference on the Quality of Information and Communications Technology (QUATIC 2016), Thematic Track on Quality Aspects in Model Driven Engineering, September 6-9, 2016, Lisbon, Portugal
- 5th Symposium on Languages, Applications and Technologies (SLATE 2016), Track on Human-Computer Languages, June 20-21, 2016, Maribor, Slovenia
- 31st ACM/SIGAPP Symposium on Applied Computing (SAC 2016), Technical Track on Programming Languages, April 4-8, 2016, Pisa, Italy
- 8th International Conference on Agents and Artificial Intelligence (ICAART 2016), February 24-26, 2016, Rome, Italy
- 1st International Workshop on Human Factors in Modeling (HuFaMo 2015), held in conjunction with the ACM/IEEE 18th International Conference on Model Driven Engineering Languages and Systems (MODELS 2015), September 27 - October 2, 2015, Ottawa, Canada
- 5th Workshop on Advances in Programming Languages (WAPL 2015), held in conjunction with 2015 Federated Conference on Computer Science and Information Systems (FedCSIS 2015), September 13-16, 2015, Lodz, Poland
- 9th Turkish National Software Engineering Symposium (UYMS 2015), September 9-11, 2015, Izmir, Turkey
- 30th ACM/SIGAPP Symposium on Applied Computing (SAC 2015), Technical Track on Programming Languages, April 13-17, 2015, Salamanca, Spain
- 7th International Conference on Agents and Artificial Intelligence (ICAART 2015), January 10-12, 2015, Lisbon, Portugal
- 5th Turkish Software Architecture Conference (UYMK 2014), December 3-5, 2014, Ankara, Turkey
- 9th International Conference on the Quality of Information and Communications Technology (QUATIC 2014), Thematic Track on Quality in Model Driven Engineering, September 23-26, 2014, Guimaraes, Portugal
- 8th Turkish National Software Engineering Symposium (UYMS 2014), September 8-10, 2014, Guzelyurt, KKTC
- 3rd Workshop on Model Driven Approaches in System Development (MDASD 2014), held in conjunction with 2014 Federated Conference on Computer Science and Information Systems (FedCSIS 2014), September 7-10, 2014, Warsaw, Poland
- International Workshop on DSL Architecting and DSL-based Architectures

- (DADA 2014), held in conjunction with the 8th European Conference on Software Architecture (ECSA 2014), August 25-29, 2014, Vienna, Austria
- 29th ACM Symposium on Applied Computing (SAC 2014), Technical Track on Programming Languages, March 24-28, 2014, Gyeongju, South Korea
 - 6th International Conference on Agents and Artificial Intelligence (ICAART 2014), March 6-8, 2014, Loire Valley, France
 - 7th Turkish National Software Engineering Symposium (UYMS 2013), September 26-28, 2013, Izmir, Turkey
 - 4th Workshop on Advances in Programming Languages (WAPL 2013), held in conjunction with 2013 Federated Conference on Computer Science and Information Systems (FedCSIS 2013), September 8-11, 2013, Krakow, Poland
 - 28th ACM Symposium on Applied Computing (SAC 2013), Technical Track on Programming Languages, March 18-22, 2013, Coimbra, Portugal
 - 5th International Conference on Agents and Artificial Intelligence (ICAART 2013), February 15-18, 2013, Barcelona, Spain
 - 4th Turkish Software Architecture Conference (UYMK 2012), December 7-8, 2012, Izmir, Turkey
 - 2nd Workshop on Model Driven Approaches in System Development (MDASD 2012), held in conjunction with 2012 Federated Conference on Computer Science and Information Systems (FedCSIS 2012), September 9-12, 2012, Wroclaw, Poland
 - 6th Turkish National Software Engineering Symposium (UYMS 2012), May 30-June 1, 2012, Ankara, Turkey
 - 5th Turkish National Software Engineering Symposium (UYMS 2011), September 26-28, 2011, Ankara, Turkey
 - 3rd Turkish Software Architecture Conference (UYMK 2010), November 4-5, 2010, Ankara, Turkey
 - 2nd Turkish Workshop on Model-Driven Software Development (TMODELS 2010), May 22, 2010, Ankara, Turkey
 - 4th Turkish National Software Engineering Symposium (UYMS 2009), October 8-10, 2009, Istanbul, Turkey
 - 1st International Workshop on Sensor Security (IWSS 2009), held in conjunction with the 4th International Conference on Availability, Reliability and Security (ARES 2009), March 16-19, 2009, Fukoka, Japan
- Administrative duties:
 - Vice Director of Ege University International Computer Institute (*since January 2017*)
 - Member of Ege University International Computer Institute Directorate Board (*since September 2009*)
 - Member of Ege University International Computer Institute Academic Assessment and Quality Improvement Committee (*since December 2009*)
 - Member of Ege University International Computer Institute Academic Encouragement Application Pre-Assessment Committee (*since January 2016*)
 - Member of Association for Computing Machinery (ACM)
 - Panelist in the evaluation meetings of the research project proposals submitted to TUBITAK ARDEB-EEEEAG
 - External consultant for the research project proposals submitted to TUBITAK ARDEB-EEEEAG

- Referee for the assessment of the industrial research & development (R&D) project proposals submitted to TUBITAK TEYDEB
- Inspector for the industrial R&D projects supported by TUBITAK TEYDEB
- Referee for the assessment of the entrepreneurs' business ideas submitted to TUBITAK TEYDEB
- Concept advisor for Science Center Support Programme of TUBITAK Science and Society Department (BTDB)
- External consultant for the undergraduate national/international research project proposals submitted to TUBITAK Science Fellowships and Grant Programmes Department (BIDEB)
- External consultant for the industry-focused undergraduate research project proposals submitted to TUBITAK BIDEB
- Panelist in the evaluation meeting of the research scholarship applications submitted for the International Research Fellowship Programme of TUBITAK BIDEB
- Field committee member for the Technology Development Foundation of Turkey (TTGV)
- Committee member for the assessment of R&D center applications submitted to the Republic of Turkey - Ministry of Science, Industry and Technology
- Committee member for the inspection of the R&D centers supported by the Republic of Turkey - Ministry of Science, Industry and Technology
- Referee for the assessment of R&D center applications submitted to the Republic of Turkey - Ministry of Science, Industry and Technology
- Inspector for the R&D centers supported by the Republic of Turkey - Ministry of Science, Industry and Technology
- Committee member for the assessment of applications submitted to the Techno-entrepreneur Programme of the Republic of Turkey - Ministry of Science, Industry and Technology
- Referee for the assessment of the projects funded by the Scientific Research Projects Directorate of Ege University
- Jury member for the assessment of faculty member applications
- Jury member for the assessment of the computer science undergraduate students' projects submitted to the series of Young Brains New Ideas Project Contest
- Jury member for the assessment of the projects submitted to the 2012 Inter-High School Science and Engineering Project Contest organized by Izmir University of Economics and Republic of Turkey – Ministry of National Education

WORK

Associate Professor

EXPERIENCE

since March 2016 Ege University International Computer Institute, Izmir, TURKEY

- Courses taught: “Multi-agent Systems”, “Object-oriented Programming”, “Data Structures and Algorithms” and “Programming Languages”

Consultant (Part-time)

since May 2015 KocSistem Information Communication Services Inc., Istanbul, TURKEY

- Participated mainly in EU EUREKA ITEA labelled and TUBITAK TEYDEB funded R&D project: “ModelWriter: Text & Model-Synchronized Document Engineering Platform”

Consultant (Part-time)

December 2012 – December 2014 Kentkart Ege Electronics Automatic Fare Collection & Vehicle Tracking Systems Co., Izmir, TURKEY

- Participated mainly in TUBITAK TEYDEB funded R&D project: “Development of a CANBus-based Ecodriving System for Public Transport Bus Services”

Consultant (Part-time)

November 2012 – December 2013 Unit Information Technologies Research, Development and Automation Systems Co., Izmir, TURKEY

- Participated mainly in TUBITAK TEYDEB funded R&D project: “Model Driven Development of Composite Content Applications”

Assistant Professor

June 2009 – February 2016 Ege University International Computer Institute, Izmir, TURKEY

- Courses taught: “Multi-agent Systems”, “Service-oriented Computing”, “Object-oriented Programming”, “Data Structures and Algorithms” and “Programming Languages”

Research Assistant

June 2004 – June 2009 Ege University International Computer Institute, Izmir, TURKEY

- Assisted courses: “Object Oriented Programming”, “Advanced Programming with Java”, “Information Systems”, “Parallel Programming”, “Distributed Systems” and “Advanced Computer Architecture”

Research Assistant

December 2001 – August 2003 Ege University International Computer Institute, Izmir, TURKEY

- Assisted courses: “Operating Systems”, “Data Structures” and “Information Systems”

Software Developer (Part-time)

November 2000 – March 2001 Tema Computer Inc., Izmir, TURKEY

- Participated mainly in design and implementation of commercial web sites

EDUCATION

September 2003 – July 2008 Ph.D. in Information Technologies, Ege University Graduate School of Natural and Applied Sciences, Izmir, TURKEY

- GPA: 93.86 / 100
- *Graduate Dissertation:* Model Driven Development of Semantic Web Enabled Multi-agent Systems
 - Introducing a new reference software architecture for Semantic Web enabled Multi-agent Systems (MASs)
 - Definition of a platform independent MAS metamodel in which agent and semantic web service interactions are especially considered
 - Introducing a model driven agent software development process in which

- both model to model (M2M) and model to text (M2T) transformation steps are included
- Evaluation of the proposed M2M and M2T transformations by considering development of real MAS applications for two different MAS software frameworks
- Thesis (written in Turkish) can be found at:
<http://ube.ege.edu.tr/~kardas/resources/DoktoraTezi.pdf>

September 2001 – August 2003 M.Sc. in Information Technologies, Ege University Graduate School of Natural and Applied Sciences, Izmir, TURKEY

- GPA: 88.13 / 100
- *Graduate Thesis: Use of Smart Cards in Health Records*
 - Design and implementation of a healthcare information system architecture based on smart card technology
 - Design and implementation of a distributed object protocol in which smart cards participate in data transmission, data security and system authentication tasks
 - Use of JavaCard and Java RMI technologies in implementation
 - More information can be available at: <http://ube.ege.edu.tr/~kardas/master>

September 1997 – August 2001 B.Sc. in Computer Engineering, Ege University Computer Engineering Department, Izmir, TURKEY

- GPA: 80.95 / 100
- *Graduate Thesis : A Web Based Hotel Reservation System*
 - Development of an n-tier client / server application using Model-View-Controller architectural pattern
 - E-business application approach and object oriented system analysis and design
 - System implementation by using Java Servlet, JSP, Java Bean, Java Mail technologies, concurrent multi-thread architecture and Oracle database

September 1994 – February 1997 High School, Bornova Anatolian High School, Izmir, TURKEY

- GPA: 4.55 / 5
- *Education Language: English Branch In High School: Science*

AWARDS, GRANTS and SCHOLASTIC ACHIEVEMENTS

(2015) The rank of Associate Professor in Computer-Information Science and Engineering field, achieved from the Republic of Turkey - Inter-University Council (ÜAK)

Awards:

- (2017) TUBITAK Project Performance Award
- (2016) “Excellence Award”, awarded by Elsevier Science Publisher B.V.’s Computer Languages, Systems & Structures journal in recognition of the significant contributions made to the quality of the journal
- (2016) Ege University Science and Technology Center (EBILTEM) Project Application Award
- (2015) TUBITAK Turkish Academic Network and Information Centre (ULAKBIM) International Scientific Publication Promotion
- (2015) EBILTEM Publication Award
- (2014) TUBITAK ULAKBIM International Scientific Publication Promotion (for 4

publications)

- (2014) EBILTEM Publication Award (for 4 publications)
- (2009) TUBITAK ULAKBIM International Scientific Publication Promotion
- (2008) EBILTEM Publication Award
- (2007) TUBITAK ULAKBIM International Scientific Publication Promotion (for 3 publications)
- (2007) EBILTEM Publication Award (for 4 publications)
- (2006) TUBITAK International Scientific Publication Promotion
- (2006) EBILTEM Publication Award (for 6 publications)

Grants:

- For project / research grants, please refer to [professional activities](#) section.
- (2007) EBILTEM Grant for participating in Fifth German conference on Multi-Agent System Technologies (MATES 2007) Leipzig, Germany
- (2007) TUBITAK BIDEB Grant for participating in Fifth German conference on Multi-Agent System Technologies (MATES 2007) Leipzig, Germany
- (2006) TUBITAK BIDEB Grant for participating in Net.ObjectDays 2006, Erfurt, Germany

Scholarship:

- (2006) TUBITAK BIDEB Ph.D. Scholarship (for 4 years)

Other Achievements:

- Co-authored article, called “A model driven architecture for the development of smart card software”, was ranked 2nd on Elsevier Science Publisher B.V.’s ScienceDirect Top 25 List of Most Downloaded Articles for “Computer Languages, Systems & Structures” journal during the entire year 2014.
- Co-authored article, called “Design and implementation of a smart card based healthcare information system”, was ranked 2nd on Elsevier Science Publisher B.V.’s ScienceDirect Top 25 List of Most Downloaded Articles for “Computer Methods and Programs in Biomedicine” journal between January to March 2006.

STUDENTS

Graduated Ph.D. Students:

- Moharram Challenger, Ph.D., 2016
Dissertation Title: A Domain-specific Modeling Language for Semantic Web enabled Multi-agent Systems
Position after graduation: Postdoc researcher at Information Technology Group, Wageningen University, the Netherlands
R&D Director of Unit Information Technologies Research, Development and Automation Systems Co., Turkey

Graduated M.Sc. Students:

- Emine Bircan, M.Sc., 2017
Thesis Title: Horizontal Transformations between Platform Independent Metamodels of Software Agents
Position after graduation: Computer Engineer in TUBITAK National Research Institute of Electronics and Cryptology (UEKAE), Turkey
- Miray Tosun, M.Sc., 2015
Thesis Title: A Methodology for the Automatic Generation of JavaCard Software

Position after graduation: Software Engineer in R&D Center of OBASE Computer and Consultancy Co., Turkey

- Kemal Deniz Teket, M.Sc., 2013
Thesis Title: Agent-based Parent Selection in Peer-to-Peer Mesh-based Video Streaming Systems
Position after graduation: Ph.D. Student at Laboratoire d'InfoRmatique en Image et Systèmes d'information (LIRIS), Institut national des sciences Appliquées de Lyon (INSA Lyon), France
- Orcun Yildirim, M.Sc., 2012
Thesis Title: A Mobile Agent-based Decision Support System for Cement Industry
Position after graduation: Industrial Engineer in Cimentas Group, Turkey
- Sinem Getir, M.Sc., 2012
Thesis Title: Semantics of a Domain-specific Modeling Language for Semantic Web enabled Multi-agent Systems
Position after graduation: Ph.D. Student at Institute of Software Technology, Universität Stuttgart, Germany
- Suleyman Yildirim, M.Sc., 2012
Thesis Title: An Agent Architecture for Peer-to-Peer Live Video Streaming Applications
Position after graduation: Post-M.Sc. Software Designer Trainee at 3TU.School for Technological Design, Stan Ackermans Institute, Eindhoven University of Technology, the Netherlands
- Sebla Demirkol, M.Sc., 2012
Thesis Title: Syntax of a Domain-specific Modeling Language for Semantic Web enabled Multi-agent Systems
Position after graduation: Software Developer at Veripark Co., Turkey
- Hidayet Burak Saritas, M.Sc., 2011
Thesis Title: Model-based Engineering for the Development of Smart Card Software
Position after graduation: Software Developer at Kentkart Ege Electronics Automatic Fare Collection & Vehicle Tracking Systems Co., Turkey
- Ferhat Erata, M.Sc., 2010
Thesis Title: A Platform-specific Metamodel for Developing Web-based Systems
Position after graduation: Co-founder and president of Unit Information Technologies Research, Development and Automation Systems Co., Turkey

Graduated M.Sc. Non-Thesis Students:

- Hamit Unugur, M.Sc., 2014
Graduation Project Title: Assessment of the Semantic Service Discovery Methods on Mobile Platforms
Position after graduation: Software Developer in MAN Turkey Co., Turkey
- Ozge Ozkaya, M.Sc., 2013
Graduation Project Title: A Study on the RESTful Web Services
Position after graduation: Responsible of Ege University International Computer Institute's PC Laboratory, Turkey
- Dincer Can, M.Sc., 2013
Graduation Project Title: A Software that Records and Displays Optical Disc Contents
Position after graduation: Information Technology Teacher at Republic of Turkey - Ministry of National Education, Turkey

PERSONAL

Nationality: Republic of Turkey

INFORMATION

Birth Date: June 18,1979
Marital Status: Married
Foreign Language: English

REFERENCES

- Prof. Dr. Marjan Mernik
University of Maribor, Institute of Computer Science, Smetanova ul. 17 SI-2000
Maribor, SLOVENIA
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tel: 386 2 - 220 74 55
- Prof. Dr. Oguz Dikenelli
Ege University, Computer Engineering Department, 35100 Bornova / Izmir, TURKEY
e-mail: oguz.dikenelli@ege.edu.tr
tel: 90 - 232 - 388 72 21 - 3083
- Prof. Dr. E. Turhan Tunali
Dean of the Engineering and Computer Sciences Faculty
Izmir University of Economics, Sakarya Cad. No: 156 Balcova / Izmir, TURKEY
e-mail: turhan.tunali@ieu.edu.tr
tel: 90 - 232 - 488 85 53
- Assoc. Prof. Dr. Sule Yildirim
Gjøvik University College, Faculty of Computer Science and Media Technology, Po.
Box. 191, 2802 Gjøvik, NORWAY
e-mail: suley@hig.no
tel: 47 - 611 35 442