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**Moharram Challenger**  
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## Personal info

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Full Name: Moharram Challenger  
Email: [m.challenger@gmail.com](mailto:m.challenger@gmail.com),  
[moharram.challenger@ege.edu.tr](mailto:moharram.challenger@ege.edu.tr)  
Nationality: East Azerbaijan, Iran.  
Residential: Turkey  
Position: Assistant Professor at International Computer Institute, EGE University  
Cell phone: +90 541 918 8836  
Address: 206, International Computer Institute, EGE Univ., Bornova, 35100 Izmir–Turkey  
Date and Place of Birth: 24.9.1976, Marand–East Azerbaijan–IRAN  
Web: <http://akademik.ube.ege.edu.tr/~challenger/>

## Education Details

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### External Post-Doc Research Fellow (Mar 2016 – Feb 2017):

External Post-doc researcher at Information Technology Group, Wageningen University and Research Center, Wageningen, The Netherlands.

### Ph.D. (2009.09.09 – 2016.02.24):

Field of Study: Information Technology (IT)  
Orientation: Software Engineering  
Thesis: A Domain Specific Modeling Language for Semantic Web enabled Multi-Agent Systems  
GPA: 95/100  
University: EGE Univ., Izmir, Turkey  
Scholarship grant: Bilateral project by The Scientific and Technological Research Council of Turkey (TUBITAK) under grant number 109E125 and Slovenian Research Agency (ARRS) under grant number BI-TR/10-12-004.

### M.Sc. (2002.09.20 – 2005.09.29):

Field of Study: Computer Engineering (Software)  
Orientation: Distributed Systems  
Thesis: A New Robust Distributed Mutual Exclusion Algorithm  
GPA: 86.25/100 (17.25/20)  
University: IAU University - Arak, Iran.  
Scholarship grant: IAU University - Shabestar, Iran

### B.Sc. (1997.09.20 – 2001.04.09):

Field of study: Computer Engineering  
Orientation: Software Engineering  
Final Project: A new software-based robot design and implementation using C++  
GPA: 83.8/100 (16.76/20)  
University: Azad University of Shabestar, East Azerbaijan, Iran

## Publications

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### SCI / SCIE / ISI Indexed Journal Papers:

- [1] Kardas G., **Challenger M.**, Yildirim S., and Yamuc A., “Design and Implementation of a Multiagent Stock Trading System”, *Software: Practice and Experience (SPE)*, vol. 42, No. 10, pp. 1247-1273, **2012**. DOI: 10.1002/spe.1137
- [2] Demirkol S., **Challenger M.**, Getir S., Kosar, T., Kardas G. and Mernik, M., “A DSL for the Development of Software Agents working within a Semantic Web Environment”, *Computer Science and Information Systems (ComSIS)*, vol. 10, No. 4, pp. 1525-1556. **2013**. DOI: 10.2298/CSIS121105044D (Accepted as Selected paper from FedCSIS 2012).
- [3] **Challenger M.**, Haytaoglu E., Tokatli G., Dagdeviren O., and Erciyes K., “A Hybrid Distributed Mutual Exclusion Algorithm for Cluster-Based Systems,” *Mathematical Problems in Engineering (MPE)*, vol. 2013, Article ID 703414, 15 pages, **2013**. DOI: 10.1155/2013/703414
- [4] **Challenger M.**, Demirkol S., Getir S., Mernik M., Kardas G., Kosar T., “On the use of a Domain-Specific Modeling Language in the Development of Multiagent Systems”, *Engineering Applications of Artificial Intelligence (EAAI)*, vol. 28, pp. 111–141, **2014**. DOI: 10.1016/j.engappai.2013.11.012
- [5] Getir S., **Challenger M.**, Kardas G. “The Formal Semantics of a Domain-specific Modeling Language for Semantic Web enabled Multi-agent Systems”, *International Journal of Cooperative Information Systems (IJCIS)*, vol. 23, No. 3, pp. 1450005 (53 pages), **2014**, DOI: 10.1142/S0218843014500051.
- [6] Azadi Marand E., Azadi Marand E., **Challenger M.**, “DSML4CP: A Domain-specific Modeling Language for Concurrent Programming”, *Computer Languages, Systems & Structures (COMLAN)*, vol. 44, Issue C, pp. 319–341, **2015**. DOI:10.1016/j.cl.2015.09.002
- [7] **Challenger M.**, Mernik M., Kardas G., Kosar T., “Declarative specifications for the Development of Multi-agent Systems”, *Computer Standards & Interfaces (CSI)*, vol. 43, pp. 91-115, **2016** DOI: 10.1016/j.csi.2015.08.012
- [8] **Challenger M.**, Kardas G., Tekinerdogan B., “A Systematic Approach to Evaluating Domain-specific Modeling Language Environments for Multi-agent Systems”, *Software Quality Journal (SQJ)*, 24:755–795, **2016**. DOI: 10.1007/s11219-015-9291-5
- [9] Kardaş G., Bircan E., **Challenger M.**, “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 (ComSIS)*, 14(3):875–912, **2017**. DOI:10.2298/CSIS170113034K
- [10] Kardaş G., Tezel B. T., **Challenger M.**, “A Domain-specific Modeling Language for Belief-Desire-Intention Software Agents”, *IET Software*, 12(4):356-364, **2018**. DOI: 10.1049/iet-sen.2017.0094.
- [11] **Challenger M.**, Tezel B. T., Alaca O. F., Tekinerdogan, B., Kardas G., “Development of Semantic Web-Enabled BDI Multi-Agent Systems using SEA\_ML: An Electronic Bartering Case Study”, *Special Issue on Multi-agent Systems, Applied Science*, 8(5), 2018, DOI:10.3390/app8050688

**Peer-reviewed International Journal Papers:**

- [12] Tokatli, G., Dundar, P., **Challenger, M.**, Turaci, T., “An Extended Heuristic Algorithm to Settle Reacting Objects on a Planar Surface”, *Mathematical and Computational Applications (MCA)*, vol. 16, No. 1, pp. 279-289, **2011**. (Selected paper from ISCSE 2010). DOI:10.3390/mca16010279
- [13] **Challenger, M.**, Getir, S., Demirkol, S., and Kardas, G., “A Domain Specific Metamodel for Semantic Web enabled Multi-agent Systems”, C. Salinesi and O. Pastor (Eds.): DsE at **CAiSE 2011 Workshops (London)**, *Lecture Notes in Business Information Processing (LNBIP)*, vol. 83, pp. 177-186, **2011**, DOI: 10.1007/978-3-642-22056-2\_19
- [14] **Challenger, M.**, “The Ontology and Architecture for an Academic Social Network”, in *International Journal of Computer Science Issues (IJCSI)*, vol. 9, Issue 2, No. 1, pp. 22-27, March **2012**. Available online at: <http://ijcsi.org/papers/IJCSI-9-2-1-22-27.pdf>
- [15] Khalilipour, A., **Challenger, M.**, “Automatic Conversion of Remote Invocations in Optimization of Distributed Codes”, *Journal of Academic and Applied Studies (JAAS)* Vol. 2, No. 4, pp. 22-33, April **2012**. Available online at: <http://www.academians.org/Media/Default/Articles/April2012/ncsit7.pdf>
- [16] Azadi Marand, E., **Challenger, M.**, “A Metamodel and Graphical Syntax for NS-2 Programing”, *International Journal of Computer Applications Technology and Research*, vol. 3, Issue 10, pp. 626-633, **2014**. DOI: 10.7753/IJCATR0310.1004
- [17] Azadi Marand, E., Azadi Marand, E., **Challenger, M.**, “A Textual Tool for Concurrent Programming”, *International Research Journal of Applied and Basic Sciences (IRJABS)*, vol. 8, No. 9, **2014**. Available online at: [http://www.irjabs.com/files\\_site/paperlist/r\\_2296\\_140818155840.pdf](http://www.irjabs.com/files_site/paperlist/r_2296_140818155840.pdf)

**ISI indexed International Conference and Workshop Papers:**

- [18] **Challenger M.**, Bayat P., Meybodi M.R., "A Reliable Optimization on Distributed Mutual Exclusion Algorithm", *The 2<sup>nd</sup> International Conference on Testbeds and Research Infrastructures for the Development of Networks and Communities (TRIDENTCOM 2006)*, Barcelona Spain, pp. 566-574, March **2006**. DOI: 10.1109/TRIDNT.2006.1649198
- [19] Bayat P, Bordbar M, and **Challenger M.** "A simulation for Distributed Systems", in *Proceedings of the 17<sup>th</sup> IASTED Modeling and Simulation Conference (MS'06)*, pp. 334 – 337, Montreal-Canada, 24-26 May **2006**. Available at: <http://dl.acm.org/citation.cfm?id=1167174>
- [20] **Challenger M.**, Khalilpour V., Bayat P., and Meibodi M.R., "A New Robust Centralized DMX Algorithm", in *Proceedings of the 25th International Conference on Parallel and Distributed Computing and Networks (PDCN'07)*, p. 367-374, Innsbruck-Austria, 13-15 February **2007**. Available at: <http://dl.acm.org/citation.cfm?id=1295640>
- [21] Kardas G., Demirezen Z., and **Challenger M.**, “Towards a DSML for Semantic Web enabled Multi-agent Systems”, in *Proceedings of the International Workshop on Formalization of Modeling Languages (FML '10)*, Slovenia, Maribor, pp. 1-5, **2010**. DOI: 10.1145/1943397.1943402
- [22] **Challenger M.**, Kulahcioglu T., Karabacakoglu E., Yurek I., Akar Z., and Osman Unalir M., “Extending FOAF with UniGrad”, *The 5<sup>th</sup> International Conference on*

Distance Learning and Education (**ICDLE 2011**), pp. 61-66, Singapore, 16-18 Sep. **2011**. Available online at: <http://ipcscit.com/vol12/12-ICDLE2011E0027.pdf>  
<http://www.ipcscit.com/list-44-1.html>

- [23] Demirkol S., Getir S., **Challenger M.** and Kardas G., “Development of an Agent based E-barter System”, International Symposium on INnovations in Intelligent SysTEms and Applications (**INISTA 2011**), Istanbul, Turkey, 15-18 June **2011**. DOI: 10.1109/INISTA.2011.5946060
- [24] Getir S., **Challenger M.**, Demirkol S., and Kardas G., “The Semantics of the Interaction between Agents and Web Services on the Semantic Web”, The 7th IEEE International Workshop on Engineering Semantic Agent Systems (ESAS 2012), held at The 36th IEEE Annual Computer Software and Applications Conference Workshops (**COMPSACW**), Izmir, Turkey, 16-20 June **2012**. DOI: 10.1109/COMPSACW.2012.112
- [25] Getir, S., Demirkol, S., **Challenger, M.**, and Kardas, G., “The GMF-based Syntax Tool of a DSML for the Semantic Web enabled Multi-agent Systems”, in Proceedings of the Workshop on Programming Systems, Languages, and Applications based on Actors, Agents, and Decentralized Control (**AGERE!** 2011), held at the 2nd Conference on Systems, Programming, Languages and Applications: Software for Humanity (**SPLASH 2011**), Portland, USA, ACM Press, pp. 235-238, **2011**. (Grant Awarded Paper). DOI: 10.1145/2095050.2095087
- [26] Demirkol S., **Challenger M.**, Getir S., Kosar, T., Kardas G. and Mernik, M., “SEA\_L: A Domain-specific Language for Semantic Web enabled Multi-agent Systems”, 2<sup>nd</sup> Workshop on Model Driven Approaches in System Development (MDASD 2012), held at Federated Conference on Computer Science and Information Systems (**FedCSIS 2012**), pp. 1373-1380, Wrocław, Poland, 9 - 12 September, 2012. (Selected as the best paper). Available at: [http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=6354358](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=6354358)
- [27] Bircan, E., Challenger, M., and Kardas, G., “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), Gdansk, Poland, IEEE Conference Publications, September 11-14, 2016.
- [28] Erata, F., **Challenger, M.**, Tekinerdogan, B., Monceaux, A., Tüzün, E., and Kardas, G., “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, ACM Press, Marrakech, Morocco, April 3-6, 2017, DOI: 10.1145/3019612.3019747
- [29] Arslan, S., **Challenger, M.**, Dağdeviren, O., “Wireless Sensor Network based Fire Detection System for Libraries”, 2<sup>nd</sup> International Conference on Computer Science and Engineering (UBMK'17), Antalya-Turkey, 05-08 October, 2017, DOI: 10.1109/UBMK.2017.8093388 (In Turkish).
- [30] Cakmaz, Y.E., Alaca, O.F., Durmaz, C., Akdal, B., Tezel, B.T., **Challenger, M.**, Kardas, G., “Engineering a BDI agent based semantic e-Barter System”, International Conference on Computer Science and Engineering (UBMK'17), 05-08 October, Antalya-Turkey, 2017, DOI: 10.1109/UBMK.2017.8093474
- [31] Kilincceker O., Turk E., **Challenger M.**, Belli F., “Applying the Ideal Testing Framework to HDL Programs”, 14th Workshop on Dependability and Fault Tolerance

- (VERFE 2018), in 31<sup>st</sup> International Conference on Architecture of Computing Systems (ARCS 2018), Braunschweig, Germany, April 9th – 12th, 2018.
- [32] Karaduman B., **Challenger M.**, Eslampanah R., “ContikiOS based Library Fire Detection System”, 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018), Istanbul, Turkey, May 3-5, 2018. DOI: 10.1109/ICEEE2.2018.8391340
- [33] Turk E., **Challenger M.**, “An Android-based IoT System for Vehicle Monitoring and Diagnostic”, Signal Processing and Communications Applications Conference (SIU), Izmir-Turkey, 2-5 May 2018. DOI: 10.1109/SIU.2018.8404378
- [34] Ozgur L., Khalilpour Akram V., **Challenger M.**, Dagdeviren O, “An IoT based Smart Thermostat”, 5th International Conference on Electrical and Electronics Engineering (ICEEE 2018), Istanbul, Turkey, May 3-5, 2018. DOI: 10.1109/ICEEE2.2018.8391341
- [35] Karaduman B., Asici T., **Challenger M.**, Eslampanah R., “A Cloud and Contiki based Fire Detection System using Multi-Hop Wireless Sensor Networks” 4<sup>th</sup> International Conference on Engineering & MIS (ICEMIS 2018), Istanbul-Turkey, 19-20 June 2018. DOI: 10.1145/3234698.3234764
- [36] Kilinceker O., Turk E., **Challenger M.**, Belli F., “Regular Expression Based Test Sequence Generation for HDL Program Validation”, The 8th IEEE International Workshop on Model-Based Verification & Validation (MVV2018), in the 18th IEEE International Conference on Software Quality, Reliability, and Security (QRS 2018), Lisbon-Portugal, July 16-20, 2018. DOI: 10.1109/QRS-C.2018.00103
- [37] Tomas Miranda, **Moharram Challenger**, Baris Tekin Tezel, Omer Faruk Alaca, Vasco Amaral, Miguel Goulao, and Geylani Kardas, “Improving the Usability of a MAS DSML”, The 6th International Workshop on Engineering Multi-Agent Systems (EMAS 2018), held as part of AAMAS 2018 Conference, Stockholm-Sweden, 14-15 July 2018. (Accepted)
- [38] Firtina U., Tezel B., **Challenger M.**, Kardas G., “Abstract and Concrete Syntaxes for Software Agent Environment Modeling in CARTAgO Infrastructure” International Conference on Computer Science and Engineering (UBMK 2018), Sarajevo - Bosnia & Herzegovina, 20-23 September 2018. (Accepted)
- [39] João Silva, Ankica Barišić, Vasco Amaral, Miguel Goulão, Baris Tekin Tezel, Omer Faruk Alaca, Moharram Challenger, and Geylani Kardas, “Comparing the Usability of two Multi-Agents Systems DSLs: SEA\_ML++ and DSML4MAS, Study Design”, Third International Workshop on Human Factors in Modeling (HuFaMo’18), 21st International Conference on Model Driven Engineering Languages and Systems (MODELS2018), Copenhagen, Denmark, 14-19 Oct. 2019. (Accepted)
- [40] Hussein M. Marah, Raheleh Eslampanah, Moharram Challenger, “DSML4TinyOS: Code Generation for Wireless Devices”, 2nd International Workshop on Model-Driven Engineering for the Internet-of-Things (MDE4IoT), 21st International Conference on Model Driven Engineering Languages and Systems (MODELS2018), Copenhagen, Denmark, 14-19 Oct. 2019. (Accepted)

**Peer-reviewed International Conference Papers:**

- [41] **Challenger M.**, “A Domain Specific Modeling Language for Semantic Web enabled Multi-agent Systems”, Doctorate Symposium (Thesis Proposal), at ECOOP 2010, Maribor, Slovenia, **2010**. Available at:

[http://ecoop2010.uni-mb.si/doctoral\\_symposium.html](http://ecoop2010.uni-mb.si/doctoral_symposium.html)

- [42] Khalilpour V., **Challenger M.**, Farzan A., and Heydarinezhad V., "DASM: A New Framework for Modeling and Evaluation of Distributed Algorithms", International Conference on Computer Software and Modeling (**ICCSM 2011**), 16-18 Singapore, September **2011**. Available at:  
<http://www.ipcsit.com/vol14/27-ICCSM2011-S1007.pdf>
- [43] Tezel, B.T., **Challenger M.**, and Kardas, G., "A Metamodel for Jason BDI Agents", In proceedings of the 5th Symposium on Languages, Applications and Technologies (SLATE 2016), Track on Human-Computer Languages, Maribor, Slovenia, June 20-21, 2016, OpenAccess Series in Informatics, vol. 51, pp. 8:1-8:9, DOI: 10.4230/OASICS.SLATE.2016.8.
- [44] **Challenger M.**, Erata, F., Onat, M., Gezgen, H., and Kardas, G., "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, Maribor, Slovenia, June 20-21, 2016, OpenAccess Series in Informatics, vol. 51, pp. 11:1-11:10, DOI: 10.4230/OASICS.SLATE.2016.11.
- [45] Durmaz, C., **Challenger M.**, Dagdeviren, O., and Kardas. G., "Modelling Contiki-based IoT Systems". In the 17<sup>th</sup> Symposium on Languages, Applications and Technologies (SLATE'17), Esmad-IPP, Portugal, 26-27 June 2017. DOI: 10.4230/OASICS.SLATE.2017.5

#### **Indexed National Conference Papers:**

- [46] Gungor P., Tokatli G., **Challenger M.**, Tufan, "An Algorithm for Placing Chemically Reacting Materials on a Platform", Academic Information Symposium, Mugla University, Turkey, 2010 (In Turkish). Available online at:  
[http://ab.org.tr/ab10/kitap/dundar\\_tokatli\\_AB10.pdf](http://ab.org.tr/ab10/kitap/dundar_tokatli_AB10.pdf)
- Pınar Dünder, Görkem Tokatlı, **Moharram Challenger**, Tufan Turacı, Birbirleriyle Etkileşim Halinde Bulunan Maddelerin Bir Düzleme Yerleştirilmesi İçin Bir Algoritma, XII. Akademik Bilişim Konferansı, Muğla Üniversitesi, 10 - 12 Şubat 2010.
- [47] Khalilpour V., Heidarinejad V., and **Challenger M.**, "An Environment for Generating Distributed Applications", in Proceedings of the 15th International Conference of Iranian Computer Society, 7 pages, Tehran, Iran, 2009 (In Persian). Available online at:  
[http://www.civilica.com/Paper-CSICC15-CSICC15\\_083.html](http://www.civilica.com/Paper-CSICC15-CSICC15_083.html)
- وحید خلیل پور، وحید حیدری نژاد و **محرم چلنگر**، "ارائه محیطی جهت تولید برنامه های کاربردی توزیع شده"، پانزدهمین کنفرانس بین المللی سالانه انجمن کامپیوتر ایران، تهران، انجمن کامپیوتر، مرکز توسعه فناوری نیرو، 7 صفحه، 1388
- [48] Getir S., Demirkol S., **Challenger M.**, and Kardaş G., "Graphical Concrete Syntax of a DSML for Semantic Web enabled Agents", 5<sup>th</sup> Turkish National Symposium on Software Engineering (UYMS 2011), 26-28 Sep, 2011 (In Turkish). Available at:  
<http://www.uyms.org.tr/2011/bildiriler.htm>
- Sinem Getir, Sebla Demirkol, **Moharram Challenger** ve Geylani Kardaş, "Anlamsal Web Yetenekli Etmenler için Alana Özgü bir Modelleme Diline ait Görsel Sözdizim", 5. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'11), 26-28 Eylül 2011.  
<http://docplayer.biz.tr/908642-Anlamsal-web-yetenekli-etmenler-icin-alana-ozgu-bir-modelleme-diline-ait-gorsel-sozdizim.html>

- [49] Azadi Marand E., **Challenger M.**, "A Survey on Approaches and Tools for Design and Implementation of Domain-specific Languages (DSLs)", The 1<sup>st</sup> National Congress on Computer Engineering and Information Retrieval, IAU-Roodsar, 9 Oct 2013 (In Persian). Available online at: [http://www.civilica.com/Paper-BPJ01-BPJ01\\_058.html](http://www.civilica.com/Paper-BPJ01-BPJ01_058.html)
- الهام آزادی مرند و **محرم چلنگر**، "بررسی و مقایسه روشهای طراحی و پیاده سازی و ابزارهای مورد نیاز برای تولید زبانهای خاص حوزه DSLs"، اولین همایش ملی رویکردهای نوین در مهندسی کامپیوتر و بازیابی اطلاعات، دانشگاه آزاد اسلامی واحد رودسر و املش، ایران، 7 صفحه، 27 مهرماه 1392.
- [50] Azadi Marand E., **Challenger M.**, "A Domain Specific Metamodel for NS-2 Programing", National Electronic Congress on Advances in Engineering and Basic Science, Tehran, Iran, 31 July 2014 (In Persian). Available online at: [http://www.civilica.com/Paper-AEBSCONF01-AEBSCONF01\\_230.html](http://www.civilica.com/Paper-AEBSCONF01-AEBSCONF01_230.html)
- الهام آزادی مرند و **محرم چلنگر**، "ارائه یک متامدل خاص حوزه برای برنامه های NS-2"، همایش ملی الکترونیکی دستاوردهای نوین در علوم مهندسی و پایه، تهران، مرکز پژوهشهای زمین کاو، 9 مردادماه 1393.
- [51] Azadi Marand E., Azadi Marand E., **Challenger M.**, "A Survey on the Tools for Generation of Topologies and Analyzing and Monitoring the Results of Network Simulation", National Symposium on Computer Engineering with the focus on Networks, Modeling and Security of Systems, Khavaran Inst., Mashhad, Iran, 8 pages, 24 Aug. 2013 (In Persian). Available online at: [http://beta.khi.ac.ir/Research\\_Portal/8thSASTech/Computer/Com132-.pdf](http://beta.khi.ac.ir/Research_Portal/8thSASTech/Computer/Com132-.pdf)
- الهام آزادی مرند، الهه آزادی مرند و **محرم چلنگر**، "بررسی و مقایسه ابزارهای تولید توپولوژی و نمایش و تحلیل نتایج شبیه سازی شبکه"، همایش ملی کامپیوتر مهندسی کامپیوتر و توسعه پایدار با محوریت شبکه های کامپیوتری، مدل سازی و امنیت سیستمها، موسسه آموزش عالی خاوران، مشهد، ایران، 8 صفحه، 2 شهریور 1392. [http://www.civilica.com/Paper-CESD01-CESD01\\_113.html](http://www.civilica.com/Paper-CESD01-CESD01_113.html)
- [52] Azadi Marand E., Azadi Marand E., **Challenger M.**, "A Survey on the Tools and Languages for Network Simulation", National Symposium on Computer Engineering with the focus on Networks, Modeling and Security of Systems, Khavaran Inst., Mashhad, Iran, 8 pages, 24 Aug. 2013 (In Persian). Available online at: [http://beta.khi.ac.ir/Research\\_Portal/8thSASTech/Computer/Com131-.pdf](http://beta.khi.ac.ir/Research_Portal/8thSASTech/Computer/Com131-.pdf)
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<http://confnews.um.ac.ir/index.php/fa/component/conferences/article?id=8591>
- [54] F. Erata, M. **Challenger**, S. Gezgin, A. Demirbas, M. Onat, and G. Kardas, "A Methodology for Supporting the Synchronization between Capability Models and Metamodels in Software Product Lines", The 8<sup>th</sup> National Software Engineering Symposium, 08-10 Sep. 2014. (In Turkish) Available at: [http://ceur-ws.org/Vol-1221/1\\_bildiri.pdf](http://ceur-ws.org/Vol-1221/1_bildiri.pdf)

- Erata F., **Challenger M.**, Gezgin S., Demirbas A., Onat M., and Kardas G., “Yazılım Ürün Hatlarında Yetenek Modeli ve Üstmodel Senkronizasyonu için bir Yöntem” 8. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS'14), 08-10 Eylül, 2014. [http://uyms.comu.edu.tr/foto/dosya\\_156a4ccbe1df43.pdf](http://uyms.comu.edu.tr/foto/dosya_156a4ccbe1df43.pdf)
- [55] Konaray, S. K., Aras, G., Alçekoce, H., Alaca, Ö. F., Challenger, M., Kardeş, G., Anlamsal Web Tabanlı bir Aktivite Öneri Sistemi Yazılımının Geliştirilmesi, 11<sup>th</sup> Turkish National Symposium on Software Engineering (UYMS 2017), 18-20 Oct, Antalya-Turkey, 2017 (Turkish). [http://ceur-ws.org/Vol-1980/UYMS17\\_paper\\_62.pdf](http://ceur-ws.org/Vol-1980/UYMS17_paper_62.pdf)
- [56] Baris Tekin Tezel, Moharram Challenger, Geylani Kardas, “DSML4BDI: A Modeling Tool for BDI Agent Development”, 12<sup>th</sup> Turkish National Symposium on Software Engineering (UYMS 2018), Software Modeling Track, Istanbul, Turkey, 10-12 Sep, 2018. (Accepted)
- [57] Gizem Mercan, Evrim Akgündüz, Onur Kılınççeker, Moharram Challenger, Fevzi Belli, “Android Uygulaması Testi için İdeal Test Ön Çalışması”, 12<sup>th</sup> Turkish National Symposium on Software Engineering (UYMS 2018), Software Test Engineering Track, Istanbul, Turkey, 10-12 Sep, 2018. (Accepted)

**Peer-Reviewed National Conference Papers:**

- [58] Bayat P, and **Challenger M.**, "A hardware-based evaluation and modeling of distributed systems", The 2nd Iranian National Computer Conference, Mashhad-Iran, March 2004 (In Persian).  
 - پیمان بیات و محرم چلنگر، "مدلسازی و ارزیابی سیستمهای توزیع شده با المانهای سخت افزاری" دومین کنفرانس ملی کامپیوتر ایران، مشهد 2004
- [59] Khalilpour V., Sabbagh M., and **Challenger M.**, “A Platform for Implementing Distributed Wave and Traversal Algorithms” 1<sup>st</sup> Regional Conference of Math. and Computer Science (MC2011) in IAU-Shabestar Univ., Shabestar-Iran, 6 Oct 2011 (In Persian)  
 - وحید خلیل پور، مهسا صباغ، محرم چلنگر، "ارائه محیطی برای پیاده سازی الگوریتمهای توزیع شده Wave و Traversal"، اولین همایش ریاضیات و علوم کامپیوتر دانشگاه آزاد شبستر، ایران، 14 مهر ماه 1390
- [60] **Challenger M.**, Khalilpour V. and Sabbagh M., “A New Vector-Space based Approach for Data Mining Phase in KDD Process”, First Electric and Computer Congress in Neka, Neka – Iran, March 2011 (In Persian).  
 - محرم چلنگر، وحید خلیل پور و مهسا صباغ، "ارائه یک روش مبتنی بر فضای برداری برای فاز داده کاوی در فرایند KDD"، اولین همایش منطقه ای برق و کامپیوتر، اسفندماه هشتاد و نه، نکا – ایران 1389
- [61] Azadi Marand E., **Challenger M.**, Khalilpour Akram V., “A Survey on Approaches and Tools for Design and Implementation of Domain-specific Graphical Modeling Languages”, National Conference of Electric and Computer Engineering, IAU-Sarvestan, 27 Feb, 2013 (In Persian).  
 - الهه آزادی مرند، محرم چلنگر، وحید خلیل پور اکرم، "بررسی و مقایسه روشهای طراحی و پیاده سازی و ابزارهای مورد نیاز برای تولید زبانهای مدلسازی گرافیکی خاص حوزه (DSMLs)"، کنفرانس ملی مهندسی برق و کامپیوتر، دانشگاه آزاد سروستان، 9 اسفندماه 1391.
- [62] Türk, E. and **Challenger, M.** “FPGA Tasarımında Model Tabanlı Yaklaşım” 2. Akademik Bilişim, Karabuk University, Karabuk-Turkey, 31 Jan - 2 Feb, 2018, (In Turkish)



- [63] Abshir Mohamed, M., Thaer Nejres, M., Marah H. M., Challenger, M., “Cloud and ESP based Smart Door System”, 2th International Students Science Congress, Izmir-Turkey, 4-5 May 2018.
- [64] Kilinceker O., Turk E., **Challenger M.**, Belli F., “Achieving The Ideal Testing on HDL Programs”, 4th Workshop on Dependability at Izmir Institute of Technology, Izmir, Turkey, May 21th, 2018.
- [65] Tansu Aşıcı, Moharram Challenger, “Model GÜdümlü Contiki Tabanlı IoT Sistem Geliştirme”, 12<sup>th</sup> Turkish National Symposium on Software Engineering (UYMS 2018), Master and PhD Thesis Track, Istanbul, Turkey, 10-12 Sep, 2018. (Accepted)
- [66] Gizem Mercan, Moharram Challenger, Fevzi Belli, “Android Grafiksel Kullanıcı Arayüzleri için Model Tabanlı Test Dizisi Üretimi”, 12<sup>th</sup> Turkish National Symposium on Software Engineering (UYMS 2018), Master and PhD Thesis Track, Istanbul, Turkey, 10-12 Sep, 2018. (Accepted)

### **Research/Industrial Projects:**

- [1] Providing an Environment for Behavior and Performance Evaluation of Distributed Algorithms, DASM (Distributed Algorithm Simulation and Modeling): We have developed a tool in Java which can accept a distributed algorithm and emulate it in a network of computer and finally gives you running information and shows you messages and communications during its run. (Executor)
- [2] Implementation of KDD Techniques on Data Base of University Instructors, IAU Shabestar, Iran, 2009 (Executor).
- [3] Designing and Implementation of Web based Information Systems for Paper Less Management of Research Projects, IAU Shabestar, Iran, (Executor).
- [4] Optimization of Fault Tolerant and Reliability in Distributed Systems, SID Research and Technology, Iran (Researcher), Grant No: 1376-11
- [5] Anlamsal Web Yetenekli Çok-etmenli Sistemler İçin Alana Modelleme Dili, Research project funded by the Scientific Research Projects Directorate of Ege University under grant number 12-BIL-041, duration 2 years, (Researcher).
- [6] A DSML for Semantic Web based MASs, 3-year Bilateral project by The Scientific and Technological Research Council of Turkey (TUBITAK) under grant number 109E125 and Slovenian Research Agency (ARRS) under grant number BI-TR/10-12-004, March 2010- March 2013 (Researcher). <http://serlab.ube.ege.edu.tr/projects.html#p109E125>
- [7] Semiautomatic Production of Distributed Programs with Class Clustering, IAU Shabestar, Iran, 2009 (Researcher).
- [8] Model Driven Development for Composite Content Applications; Project duration: 16 months, a national project in Turkey (Consultant). Sep 2012 – Dec 2013 <http://code.google.com/p/pim4cca/>

A joint R&D project between KoçSistem Information Communication Services Inc. and UNIT Information Technologies R&D Ltd. The Project proposal is accepted by Industrial R&D Funding Programme of TUBITAK (The Scientific & Technological Research Council of Turkey). Resource Allocation is about 100 man-month.

- [9] ModelWriter: Text & Model-Synchronized Document Engineering Platform, Project duration: 36 months starting from 1 Oct 2014, An International Project among French, Turkey and Belgium, ITEA-2 Call 8, 2014-2017. We are leading the project and two work packages from all 7 work packages (Researcher). The project websites are: <https://itea3.org/project/modelwriter.html> and <http://www.modelwriter.eu/>

The project envisions an integrated authoring environment called "ModelWriter", which will be locally used by each author/contributor. This will combine two parts, a semantic word processor (= the "Writer" part), which resembles a typical word processor but capable of "understanding" pieces of text and transparently creating models of contents out of them, and a Knowledge Capture Tool (= the "Model" part), which resembles a spreadsheet table, or other familiar information modelling tools.

- [10] ASSUME: Affordable Safe & Secure Mobility Evolution, Project duration: 36 months starting from 1 Sep 2015, An International Project among Sweden, French, Turkey, Germany, and the Netherlands (under the leadership of Germany, Daimler), ITEA-3 Call 1, 2015-2018. The project consortium includes 39 partners; some of them are: Daimler, Scania, Airbus, Thales, Inria, KIT, Bosch, TU/e, Ericsson, KTH and so on. The project has 7 work packages and I am the leader of work package 6: Dissemination, Exploitation, and Standardization (Project researcher and WP6 Leader). The project websites are: <http://assume-project.eu/> and <http://assume-project.eu/>

Project abstract: Future mobility solutions will increasingly rely on smart components that continuously monitor the environment and assume more and more responsibility for a convenient, safe and reliable operation. Currently the single most important roadblock for this market is the ability to come up with an affordable, safe multi-core development methodology that allows industry to deliver trustworthy new functions at competitive prices. ASSUME will provide a seamless engineering methodology, which addresses this roadblock on the constructive and analytic side.

- [11] Supporting the Interoperability between Domain-specific Agent Modeling Languages with Horizontal Model Transformations, Research project funded by the Scientific Research Projects Directorate of Ege University under grant 16-UBE-001, duration 2 years, Stating from: June 2016 (Researcher).
- [12] AgentDSM-Eval: Developing a Framework on Evaluating Domain-specific Modeling Languages for Multi-agent Systems, bilateral project between Turkey and Portuguese, funded by TUBITAK Turkey and FCT Portugal, Start date: March 2017, duration 3 years (Researcher)
- [13] A Case Study for the Model-driven Development of Contiki OS Based IoT Software (Turkish: Contiki İşletim Sistemi Tabanlı Nesnelerin İnterneti Yazılımlarının Modellemeye Dayalı Geliştirilmesi İçin Bir Durum Çalışması), Research project funded by the Scientific Research Projects Directorate of Ege University under grant number 17-UBE-002, duration 2 years, Stating from: July 2017 (Executor).
- [14] Model Based SCADA Software Development (PLC Recipe), R&D Project for Akarmak Mechanics Company. Duration 8 months. Starting from: Feb 2018 (Consultant for UNIT IT Ltd.)

### **Books and Chapters:**

- [1] Bayat, P., **Challenger, M.**, “Troubleshooting and Repair of Networks”, Compilation and Translation in Persian, IAU Tafresh Pub., 2008.
- عیب‌یابی و تعمیر شبکه‌های کامپیوتری/ گردآوری و ترجمه و گردآوری پیمان بیات، **محرم چلنگر**-. تفرش: دانشگاه آزاد اسلامی واحد تفرش، ۱۳۸۷.
- [2] Khalilpour, V., **Challenger, M.**, “Introduction to 3D graphics and Directx”, Compilation and Translation in Persian, IAU Shabestar Pub., 2009.
- مقدمه‌ای بر گرافیک سه بعدی و DirectX: پیاده‌سازی فضاهاى سه بعدی ... / تدوین وحید خلیل‌پور اکرم، **محرم چلنگر**

### **Visiting Research:**

- Faculty of Electrical Engineering and Computer Science, University of Maribor, Slovenia  
Duration: 3 weeks with Prof Marjan Mernik
- Faculty of Health, Engineering and Science, Victoria University, Melbourne, Australia  
Duration: 4 weeks
- Programming Methodologies Laboratory, Institute of Computer Science, University of Maribor, Slovenia  
Duration: 10 Weeks  
Program: ERASMUS Exchange Program
- Domain-specific Modeling Summer School (DSM-TP), Santiago Spain  
Duration: 1 week
- Modeling summer school, Antwerp, Belgium  
Duration: 1 week
- External PostDoc at IT group of Wageningen University  
Duration: 1 Year

### **Academic Presentations:**

- Meshhad – Iran: Iranian 2nd national conference, March 2004.
- Innsbruck – Austria: PDCN2007 IASTED/ACTA, 13-15 February 2007.
- Maribor – Slovenia: – FML workshop – ECOOP Conf 2010.
- Maribor – Slovenia: PhD Student Workshop – ECOOP Conf 2010.
- London – England: DSE workshop at CAiSE Conf 2011.
- Singapore: ICDLE 2011.
- Wroclaw, Poland: MDASD 2012 hosted with FedCSIS 2012.
- Istanbul-Turkey: ITEA2 Call 8, Proposal Outline Days, AGCV4DSL Presentation, 19-20 March 2013
- Amsterdam-Netherland: ITEA3 Call 1, Proposal Outline Days, ModelFinder Project, 22-23 Sep. 2014.
- Istanbul-Turkey: Invited Speaker at 1<sup>st</sup> ATSEN Workshop on Advanced Software Engineering-Model Driven Theme, 7 Nov. 2014
- Riga-Latvia: A Workshop in MPM4CPS Cost Action, WG4, 25-27 April 2018
- Mugla University, Computer Engineering Dep.: Invited Speaker, 23 July 2018
- Denizli University, Computer Engineering Dep.: Invited Speaker, 27 July 2018

## Research Interests

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- (Intelligent) Distributed Systems and Algorithms
- Multi Agent Systems
- Semantic Web (Services), Ontologies
- Model Driven Software Development
- Domain Specific (Modeling) Languages
- Formal Semantics of DSMLs and DSLs
- Empirical DSML Evaluation
- IoT and CPS Software (MDE for IoT)

## Work Experiences

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- 2017 Jan – Now:** Member of Faculty as Assistant Professor at International Computer Institute, EGE University, Izmir-Turkey.
- 2015 Mar – Dec 2016:** External Post-doc researcher at Information Technology Group, Wageningen University and Research Center, Wageningen, The Netherlands.
- 2014 Sep – Dec 2016:** R&D Director at UNIT Information Technology Ltd. Company in Izmir, Turkey. Leading two ITEA software projects: ModelWriter project among France, Belgium, Turkey; and ASSUME among Germany, Sweden, Turkey, Netherlands, France.
- 2013 Mar –2014 Sep:** Project Technical Consultant on Model Driven Development for Composite Content Applications, 16 months, national project in Turkey.
- 2010 Mar – 2013 Mar:** Project research member and Lab. leader on Multi Agent Systems (for 3 years), International bilateral project between Slovenia and Turkey
- 2005 Feb – 2010 Mar:** Member of faculty, Lecturer in Computer Engineering Faculty, IAU Shabestar University, Iran
- 2006 Sep – 2007 Feb:** Vice President of University for Educational affairs in Jolfa University
- 2005 Sep – 2006 Sep:** Vice Manager of Computer Group in Shabestar University
- 2005 Mar – 2005 Sep:** IT/ICT Consultant in Marand University
- 2004 Feb – 2005 Feb:** Part time Lecturer at Computer Engineering Department, Tafresh Azad University
- 2003 Feb – 2004 Feb:** Part time Lecturer at Computer Engineering Department, Golpayegan Azad University
- 2003 Dec – 2005 Dec:** Software Engineer at ISP1501 Company

## Some of My Students

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Supervision of Master Thesis:

- Ercüment Türk, Ege University –International Computer Institute, Dissertation: Model-based HDL testing

- Öğuz Aslan, Ege University –International Computer Institute

#### Supervision of Master Thesis:

- Elahe Azadi, IAU-Shabestar Univ., Thesis: A DSML for Concurrent Programming
- Elham Azadi, IAU-Shabestar Univ., Thesis: A DSL/DSML for Network Simulator 2
- Muhammed Ali Sürücü, Ege University – International Computer Institute, Thesis: A Log Management System for IoT Devices
- Ceyda Dağ, Ege University – International Computer Institute, Thesis: Upgrading SEA\_ML agent modeling languages with Sirius and Acceleo tools
- Gizem Mercan, Ege University – International Computer Institute, Thesis: Model-based Test Sequence Generation for Android Graphical User Interfaces
- Mustafa Abshir Mohamed, Ege University –International Computer Institute, Model-driven Engineering of Internet of Things and Cyber-Physical System Software: A Systematic Literature Review

#### Selected Bachelor Students:

- Farzad Kiani, IAU-Shabestar Univ. Now Asst Prof at Istanbul Zaim Univ.
- Saba Hejazi, now Master Student in USA

### **Awards**

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- The First BEST student among Bsc students according to GPAs in 2000
- The Second-BEST student among Msc students according to GPA in 2003
- Received the Scholarship at Msc for 4 semesters
- ACM Programmer's contest participation in 1999, Tehran site.
- ACM Programmer's contest Coach in 2006, Tehran site.

### **Grants and Scholarships**

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- 3 years scholarship for Master of Science from IUA-Shabestar University
- 5.5 years scholarship for PhD from IUA-Shabestar University
- 3 Grants for research projects each 2 years (while I was lecturer at Univ.)
- 3 years Grant for Bilateral research project between Turkey and Slovenia
- 1.5 years Grant for National research project in Turkey

### **Memberships**

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- IEEE Member
- ACM Member
- Member of "Iranian Young Researchers Club" from 2003 up to now.
- Member of "Iranian Computer Society" from 1998 up to now

## Referees and Committee memberships

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- International Program Committee (IPC) member for the IASTED International Conference on Parallel and Distributed Computing and Networks (PDCN), which is held in Innsbruck, Austria:
  - o 9<sup>th</sup> PDCN 2010, 16<sup>th</sup> – 18<sup>th</sup> Feb., <http://iasted.org/conferences/ipc-676.html>
  - o 10<sup>th</sup> PDCN 2011, 15<sup>th</sup> – 17<sup>th</sup> Feb., <http://iasted.org/conferences/ipc-719.html>
  - o 11<sup>th</sup> PDCN 2013, 11<sup>th</sup> – 13<sup>th</sup> Feb., <http://iasted.org/conferences/ipc-795.html>
- Committee member of Doctoral Symposium (PhD students workshop) in ECOOP conference 2011, available at: <http://scc-sentinel.lancs.ac.uk/ecoop11/?q=calls/doctoral>
- Journal of Soft Computing (JSC), University of Kerman, Iran (In Persian).
- مجله رایانش نرم، دانشگاه کرمان، ایران
- Reviewer in the Journal of Mathematical Problems in Engineering, Hindawi Publications, 2013.
- Reviewer in the IET Software Journal, (IET Digital Library),
- Reviewer in the Journal of Computer Science and Information Systems 2015
- Reviewer in the Journal of Visual Languages and Computing (Elsevier Pub.) 2016-2018
- Reviewer in the Journal of Computer Languages, Systems and Structures (Elsevier Pub.) 2016-2018
- Reviewer in the Journal of Information and Software Technology (Elsevier Pub.), 2015 and 2017
- Reviewer in Journal of Software and Systems Modeling (Springer Pub.), 2017
- Reviewer of an Elsevier Book Proposal, 2018
- Committee member of International Conference of Electrical and Electronics Engineering, Istanbul-Turkey, 2018
- Reviewer in IEEE Access, 2018
- Reviewer: Applied Computing and Informatics, 2018
- Reviewer: ICEEE 2018 Conference
- Jury member of Young Brain Projects, Ege Region, Ege University, Turkey
- ASPAI' 2019 Conference Committee member
- PhD dissertation committee member:
  - o Sercan Demirci (PhD, International Computer Institute), 2018
- Master thesis committee member:
  - o Mustafa Tosun (Computer Engineering, Pamukkale University), Jul 2018
  - o Nushin Karimpour, Solar Energy Institute, Ege University, Aug 2018
- Master Final Project committee member:
  - o Behzad Deniz (International Computer Institute, 2018)
  - o Serdar Korhan Konaray (International Computer Institute, 2018)
  - o Metin Süvari (International Computer Institute, 2018)
  - o Süleyman Yaşacan (International Computer Institute, 2018)
- Program Committee member of UYMS conference, Graduate Thesis session, 2018

## **Lectured Graduate Courses**

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- Embedded and Real-time Software
  - o Ege Univ, Turkey
- Advanced Topics in Modern Software Engineering
  - o Ege Univ, Turkey
- Computer Language Engineering (Master course)
  - o Ege Univ, Turkey
- Service Oriented Computing (Master course)
  - o Ege Univ., Turkey
- Programming Languages (Master course)
  - o Ege Univ., Turkey
- Operating Systems (Master course)
  - o Ege Univ., Turkey
- Network Programing (Master course),
  - o Ege Univ, Turkey

## **Assisted M.Sc. and PhD Courses**

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- Multi Agent System's Programming (PhD course) – Ege Univ., Turkey
- Advance Data Structures and Algorithms (Master course) - Ege Univ., Turkey

## **Lectured Undergraduate Courses**

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- Structured Programming: C – IAU Sabestar Univ, Iran
- OOP: Java – IAU Sabestar Univ, Iran
- Data Structures – IAU Sabestar Univ, Iran
- Network programming using Java
- GUI Programming in Java
- Introduction to Distributed Systems
- Special English for Computer Students
- OS Lab
- Algorithm Design
- Operating Systems
- Theory of Languages

## **Passed Educational Courses**

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- Planning and evaluation in learning
- Development and learning
- Educational Planning
- Educational Medias
- Scientific paper writing in English
- Research methodology
- Learning styles and efficient study
- Excel Software
- Scientific Info extraction

- Human relation improvement
- Educational Improvement Evaluation
- Educational psychology
- Education philosophy
- IT in education
- Learning and teaching patterns
- Motivation and effective teaching
- Research ethics and rules
- Teaching planning patterns
- Optimizing student & lecturer relationship
- English, IELTS

## **Programming and Other Abilities**

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- C, C++
- Java: Network (Socket & Channel), Web (JSP & Servlet), Distributed (RMI, JParty, Corba), GUI (JGraph, Swing)
- C, C++, Java: Network (Socket & Channel), Web (JSP & Servlet), Distributed (RMI, JParty, Corba), GUI (JGraph, Swing)
- Web Service Technologies: SOAP, WSDL, RestFull, JSON, UDDI
- Eclipse GMF, OCL, ATL, Mofscript, Xtext and Xpand, Xtend
- Eclipse Epsilon: Emfatic, Eugenia, EVL, EGL, ETL, EML
- Semantics of programming languages: Alloy and Alloy analyzer
- JADE, JADEX and Tropos, INGENIAS, AAIL methodologies

## **Languages**

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- Azerbaijani: Native
- English: Fluent, IELTS overall 7.0
- Turkish: Fluent, TOMER Diploma
- Persian: Native

## **Hobbies and Interests**

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- Sport: Running, Cycling, Basketball and Swimming
- Hobbies: Photographing and Site seeing
- No Smoking
- Car Driving

## **Other Certificates**

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- Driving Licenses: B and D
- Swimming life guard: B class (Pool)
- Swimming trainer: B class (Pool)
- 10 Finger Typist



## References & Recommenders

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Prof. Hans Vangheluwe

- Univ.: University of Antwerp, Computer Science Department
- Web: <https://www.uantwerpen.be/en/staff/hans-vangheluwe/>
- Email: [hans.vangheluwe@uantwerpen.be](mailto:hans.vangheluwe@uantwerpen.be)

Prof. Fevzi Belli

- Univ.: Computer Engineering Dep., Paderborn University, Germany.
- Relationship: Colleague with 2 years of collaboration
- Web: <http://ceng.iyte.edu.tr/people/fevzi-belli/>
- Email: [belli@upb.de](mailto:belli@upb.de)

Assoc. Prof. Dr. Geylani Kardas,

- Univ.: International Computer Institute, EGE University, Izmir – Turkey
- Relationship: My PhD Supervisor
- Web: <http://www.ube.ege.edu.tr/>
- Email: [Geylani.kardas@ege.mail.edu.tr](mailto:Geylani.kardas@ege.mail.edu.tr)

Prof. Dr. Bedir Tekinerdogan,

- Univ.: Information Technology, Wageningen University, Netherlands.
- Relationship: My Thesis Committee member,
- Web: [www.cs.bilkent.edu.tr/~bedir/](http://www.cs.bilkent.edu.tr/~bedir/)
- Email: [bedir@cs.bilkent.edu.tr](mailto:bedir@cs.bilkent.edu.tr)

Dr. Anne Monceaux

- Affiliation: Airbus R&D, France
- Relationship: Colleague in ModelWriter project
- Email: [anne.monceaux@airbus.com](mailto:anne.monceaux@airbus.com)

Prof. Dr. Marjan Mernik,

- University: Department of Computer and Information Science, University of Alabama at Birmingham, USA.
- Relationship: My Advisor in Project
- Web: <https://www.cis.uab.edu/users/mernik>
- Email: [marjan.mernik@uni-mb.si](mailto:marjan.mernik@uni-mb.si)

Assoc. Prof. Dr. Vahid Garousi,

- Position.: Team Leader of the Software Quality Engineering Research Group (SoftQual)
- Univ.: Department of Electrical and Computer Engineering, Schulich School of Engineering, University of Calgary, Alberta, Canada.
- Web: [www.ucalgary.ca/~vgarousi](http://www.ucalgary.ca/~vgarousi)
- Email: [vgarousi@ucalgary.ca](mailto:vgarousi@ucalgary.ca)

Dr. Tomaz Kosar – Lecturer,

- University: Institute of Computer Science, University of Maribor, **Slovenia**
- Relationship: My colleague in bilateral project between Slovenia and Turkey
- Web: <http://lpm.uni-mb.si/kosar/>
- Email: [tomaz.kosar@uni-mb.si](mailto:tomaz.kosar@uni-mb.si)

## Short Biography

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Moharram Challenger received his B.Sc., and M.Sc. degrees in computer engineering and software engineering from IAU-Shabestar and IAU-Arak Universities (Iran) in 2001 and 2005 respectively. He also received his Ph.D. in Information Technologies from International Computer Institute, Ege University, in Feb 2016. He was ranked as the 1<sup>st</sup> best and the 2<sup>nd</sup> best graduated students in his B.Sc. and M.Sc. After PhD., he has worked as an external Postdoc researcher in IT group, Wageningen University of Research (WUR) about 1 year.

During his professional life, from 2006 to 2010, he has been a tenure-track faculty member, as a lecturer, at computer engineering department, IAU-Shabestar University. Between Sep 2012-Dec 2016, he has been R&D director of UNIT IT Ltd. company in which they were leading an international ITEA project, called ModelWriter, among Belgium, Turkey and France for three years. Also, Moharram was the leader of work package 6 (Dissemination, Exploitation, and Standardization) of ASSUME project in which 39 partners (including Airbus, Bosch, Scania, Daimler, KHT Univ., KIT Univ. and so on) from five countries, Germany (as the leader), Sweden, Turkey, France, and the Netherlands are involved. Since, Jan 2017, Moharram is a member of faculty as Assistant Professor at International Computer Institute, EGE University.

In addition, Moharram has experience of executing three university projects in Iran, membership of one Turkish national project for 18 months, team leading of a bilateral project between Slovenia and Turkey for three years, and currently leading the team for a bilateral project between Portuguese and Turkey. Moharram has more than 37 publications in well-known journals (such as SQJ, CSI, EAAI, SP&E, IJCIS, ComSIS, MPE, COMLAN and IET) and conferences (such as ECOOP, SPLASH-AGERE, CAiSE, CompSAC, SAC, AAMAS-EMAS, QRS-MVV, ARCS-VERFE and FedCSIS). His research interests include domain-specific (modeling) languages, and multi-agent and IoT systems with a current focus on the formal semantics and systematic evaluation of DSMLs and MDE for IoT.