

Curriculum Vita

Moharram Challenger

(Updated: Jan 2017)



Personal info

Full Name: Moharram Challenger

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Nationality: East Azerbaijan, Iran.

Residential: Turkey

Education: PhD in IT from International Computer Institute, Ege University, Turkey

Position: Assistant Professor at International Computer Institute, Ege University

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Post Address: No. 206, 2nd Floor, International Computer Institute, EGE University, Bornova,
35100 Izmir – Turkey.

Date and Place of Birth: 24.9.1976, Marand–East Azerbaijan–IRAN

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Education Details

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

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

Peer-reviewed International Journal Papers:

- [9] Tokatli, G., Dundar, P., **Challenger, M.**, Yilmaz, T., “An Extended Heuristic Algorithm to Settle Reacting Objects on a Planar Surface”, *Special Issue on Computing in Science & Engineering, Journal of Mathematical & Computational Applications (MCA)*, vol. 16, No. 1, pp. 279-289, **2011**. (Selected paper from ISCSE 2010). Available online at: http://mcajournal.cbu.edu.tr/specialissuevolume16_1/27.pdf
- [10] **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

- [11] **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>
- [12] Khalilpour, 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>
- [13] 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
- [14] 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

ISI indexed International Conference and Workshop Papers:

- [15] **Challenger M.**, Bayat P., Meybodi M.R., "A Reliable Optimization on Distributed Mutual Exclusion Algorithm", The 2nd 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
- [16] Geylani K., 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
- [17] 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
- [18] 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
- [19] 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
- [20] 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”, 2nd 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

- [21] A. Khalilipour and M. Challenger, "A New Code Scanner for Automatic Recognition and Separation of Business and Data-Access Layers in Layered Software Architecture", The 1st International Conference on New Research Achievements in Electrical and Computer Engineering, AmirKabir Univ. of Technology, Tehran, Iran, May 13, 2016.
- [22] E. Bircan, M. Challenger, and G. Kardas, "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.
- [23] F. Erata, M. Challenger, B. Tekinerdogan, A. Monceaux, E. Tüzün, and G. Kardas, "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 (accepted).

Peer-reviewed International Conference Papers:

- [24] Bayat P, Bordbar M, and **Challenger M.** "A simulation for Distributed Systems", in Proceedings of the 17th 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>
- [25] **Challenger M**, Khalilipour 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>
- [26] **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
- [27] **Challenger M.**, Kulahcioglu T., Karabacakoglu E., Yurek I., Akar Z., and Osman Unalir M., "Extending FOAF with UniGrad", The 5th International Conference on Distance Learning and Education (**ICDLE 2011**), pp. 61-66, Singapore, 17 Sep. **2011**. Available online at: <http://ipcsit.com/vol12/12-ICDLE2011E0027.pdf>
<http://www.ipcsit.com/list-44-1.html>
- [28] Khalilipour 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>
- [29] B. T. Tezel, **M. Challenger**, and G. Kardas, "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/OASIS.SLATE.2016.8.

- [30] **M. Challenger**, F. Erata, M. Onat, H. Gezgen, and G. Kardas, "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/OASIS.SLATE.2016.11.

Indexed National Conference Papers:

- [31] 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

- Pınar Dündar, 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.

- [32] Khalilpour V., Heidarinejaz V., and **Challenger M.**, "An Environment to Develop 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

- وحید خلیل پور، وحید حیدری نژاد و **محرم چلنگر**، "ارائه محیطی جهت تولید برنامه های کاربردی توزیع شده"، پنزدهمین کنفرانس بین المللی سالانه انجمن کامپیوتر ایران، تهران، انجمن کامپیوتر، مرکز توسعه فناوری نیرو، 7 صفحه، 1388

- [33] Getir S., Demirkol S., **Challenger M.**, and Kardeş G., "Graphical Concrete Syntax of a DSML for Semantic Web enabled Agents", 5th 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 Kardeş, "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>

- [34] Azadi Marand E., **Challenger M.**, "A Survey on Approaches and Tools for Design and Implementation of Domain-specific Languages (DSLs)", The 1st 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

- 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.

- [35] Azadi Marand E., **Challenger M.**, "A Domain Specific Metamodel for NS-2 Progaming", 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

- 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.

- [36] 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
- 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
- [37] 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
- الهام آزادی مرند، الهه آزادی مرند و **محرم چلنگر**، "بررسی و مقایسه ابزارها و زبانهای 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_112.html
- [38] Azadi Marand E., **Challenger M.**, "A Domain Specific Metamodel for Concurrent Programming", The 3rd International eConference on Computer and Knowledge Engineering (ICCKE 2013), Ferdowsi University of Mashhad – Iran, Oct. 31-Nov. 1, 2013. Available online at: http://confnews.um.ac.ir/images/41/conferences/iccke2013/294_1.pdf
<http://confnews.um.ac.ir/index.php/fa/component/conferences/article?id=8591>
- [39] 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 8th National Software Engineering Symposium, 08-10 Sep. 2014. (In Turkish) Available at: 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

Peer-Reviewed National Conference Papers:

- [40] 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
- [41] Khalilpour V., Sabbagh M., and **Challenger M.**, "A Platform to implement Wave and Traversal distributed algorithm" 1st Math. and Computer Science Conference (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
- [42] **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
- [43] 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.

Research 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] 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>
- [6] Semiautomatic Production of Distributed Programs with Class Clustering, IAU Shabestar, Iran, 2009 (Researcher).
- [7] 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.
- [8] 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.

- [9] 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.

Books and Chapters:

- [1] Bayat, P., **Challenger, M.**, "Troubleshooting and Repair of Networks", 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", Translation in Persian, IAU Shabestar Pub., 2009.

- مقدمه‌ای بر گرافیک سه بعدی و DirectX: پیاده‌سازی فضاها‌ی 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 1st ATSEN Workshop on Advanced Software Engineering-Model Driven Theme,

Research Interests

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

Occupations

2017 Jan – Now: Member of Faculty as Assistant Professor at International Computer Institute, Ege University, Izmir-Turkey.

2013 Sep – Dec 2016: R&D Director at UNIT Information Technology Ltd. Company in Izmir, Turkey. Leading an ITEA software project (ModelWriter) among France, Belgium and Turkey.

2012 Sep –2013 Dec: 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 – 2015 June: 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: Computer Department Manager and Lecturer in Tafresh University

2003 Feb – 2004 Feb: Lecturer of Computer Department in Golpayegan Univ.

Some of My Students

Supervision for 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
- Ali Omid, IAU-Shabestar Univ., Thesis: On the formal semantics of DSMLs: A case study
- Vahide Nourbakhsh, IAU-Shabestar Uni., Thesis: A PIM level DSML for Network Simulators
- Arezoo Zavie, IAU-Shabestar University, Thesis: On the V&V for DSML4MTP
- Lili Adami, IAU-Shabestar University, Thesis: Formal Verification of DSML4NS

Co-Supervision for Master Thesis:

- Reza Jahanian,

Some of My Bachelor Students:

- Farzad Kiani, IAU-Shabestar Univ. Now PhD student at 9Eylul Univ.
- Saba Hejazi, now Master Student in USA

Awards

- The First BEST student among Bsc students according to GPAs in 2000
- The Second BEST student among Msc students according to GPA in 2003
- Receiving 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

- 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

- IEEE Graduate Student Member
- ACM Student 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

- 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 9th PDCN 2010, 16th – 18th Feb., <http://iasted.org/conferences/ipc-676.html>
 - o 10th PDCN 2011, 15th – 17th Feb., <http://iasted.org/conferences/ipc-719.html>
 - o 11th PDCN 2013, 11th – 13th 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
- Reviewer in the Journal of Information and Software Technology (Elsevier Pub.)
- Reviewer in the Journal of Visual Languages and Computing (Elsevier Pub.) 2016
- Reviewer in the Journal of Computer Languages, Systems and Structures (Elsevier Pub.) 2016

Lectured Undergraduate Courses

- Service Oriented Computing (Master course), Spring 2017, Ege Univ., Turkey
- Programming Languages (Master course), Spring 2017, Ege Univ., Turkey
- Operating Systems (Master course) - Spring 2017, Ege Univ., Turkey

Assisted M.Sc. and PhD Courses

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

Lectured Undergraduate Courses

- 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

- 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

- 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, Xtexnd
- Eclipse Epsilon: Emfatic, Eugenia, EVL, EGL, ETL, EML
- Semantics of programming languages: Alloy and Alloy analyzer
- JADE, JADEX and Tropos, INGENIAS, AAI methodologies

Languages

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

Hobbies and Interests

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

Other Certificates

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

References & Recommenders

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
- Tel: 0090 5373654686

Prof. Dr. Bedir Tekinerdogan,

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

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

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
- Email: vgarousi@ucalgary.ca

Dr. Tomaz Kosar – Lecturer,

- University: Institute of Computer Science, University of Maribor, **Slovenia**
- Relationship: My colleague in bilateral project

- Web: <http://lpm.uni-mb.si/kosar/>
- Email: tomaz.kosar@uni-mb.si
- Tel: (+386 2) 220 7448

Prof. Dr. Mohammad Reza Meybodi,

- Univ.: Computer Engineering Dep., Tehran Poly Technique University, Iran.
- Relationship: My Master's Thesis Advisor
- Web: <http://ceit.aut.ac.ir/~meybod>
- Email: mmeybodi@aut.ac.ir
- Tel: 0098 21 6454 2724

Assoc. Prof. Dr Saeed Parsa,

- Univ.: Iran Science & Industry University
- Relationship: My lecturer
- Email: parsa@iust.ac.ir
- Tel: 0098 912 100 0188

Prof. Dr. Ayaz Isazadeh,

- Univ.: Applied Math Dep., Tabriz University, Iran
- Relationship: My lecturer
- Web: <http://www.isazadeh.net/>
- Email: isazadeh@tabrizu.ac.ir
- Tel: 0098 914 313 4408

Short Biography

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 1st best and the 2nd 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 2013, 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 Technical Consultant and 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 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, and team leading of a bilateral project between Slovenia and Turkey for three years. Moharram has more than 25 publications in well-known journals (such as SQJ, CSI, EAAI, SP&E, IJCIS, ComSIS, MPE, and LNBIP) and conferences (such as ECOOP, SPLASH-AGERE, CAiSE, CompSAC, SAC and FedCSIS). His research interests include domain-specific (modeling) languages, and multi-agent and distributed systems with a current focus on the formal semantics and systematic evaluation of DSMLs.