

Career Goal To make innovative projects in complex adaptive systems domain and to gain experience by doing research career within this domain.

Interests Working on open interdisciplinary problems in domains like multi-agent systems, collective intelligence, self-organization, self-adaptation, biological systems, clock synchronization and so on.

Languages Turkish (native), English (fluent), French (fluent)

Public Profiles

Web Site <https://ondergurcan.netlify.app/>
 Google Scholar <http://scholar.google.com/citations?user=nNQMJncAAAAJ&hl=en>
 ResearchGate https://www.researchgate.net/profile/Oender_Guercan2
 ResearcherID <http://www.researcherid.com/rid/G-4315-2012>

Qualifications

2013/09/04	PhD. in AI (co-tutelle)	Étude du câblage Neuronal Biologique à l'Aide d'Agents Auto-Organisateurs Université Paul Sabatier, Institut de Recherche en Informatique de Toulouse	Toulouse France
2013/07/08	PhD. in CE	Exploration of Biological Neural Wiring Using Self-Organizing Agents Ege University, Institute of Science and Technology, Computer Engineering Division	Izmir Turkey
2007/08/06	MSc.	The Design and Implementation of a Planning Module for Service-Agent Integration Ege University, Institute of Science and Technology, Computer Engineering Division	Izmir Turkey
2004/07/14	BEng.	The Design and Implementation of an Agent Framework Communication Layer Ege University, Computer Engineering Department	Izmir Turkey

Current Affiliations

2014/12/01 –	Researcher Engineer	Systems and Technologies Integration Laboratory (LIST), the French Alternative Energies and Atomic Energy Commission (CEA) Paris-Saclay University ¹	Saclay France
2018/09 –	Occasional Lecturer	Ecole d'Ingénieurs Aéronautique et Spatiale – Paris (IPSA Paris)	Ivry-sur-Seine France
2021/04 –	Occasional Lecturer	L'École Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise (ENSIIE)	Évry France

Previous Affiliations

2013/12/01 – 2014/11/30	Research Associate	Systems and Technologies Integration Laboratory (LIST), the French Alternative Energies and Atomic Energy Commission (CEA)	Saclay France
2004/12/30 – 2013/11/14	Research Assistant	Computer Engineering Department, Faculty of Engineering, Ege University	Izmir Turkey
2009/09/21 – 2009/09/25	Visiting Scholar	Department of Electronics, Computer Science and Systems, Bologna University	Bologna Italy

¹ 13th academic ranking of world universities in 2021, <https://www.shanghairanking.com/institution/paris-saclay-university>

Research Projects

2018/05 – **Multi-Agent eXperimenter (MAX)**
 Type: Open Source Project
 Role: Creator and project manager
 Link: <https://cea-licia.gitlab.io/max/max.gitlab.io/>



2020/09 – **euROPEan incubator for trusted and secure data value CHains (REACH)**
 2023/08 Type: H2020 / ICT-05 (Big Data Innovation Hubs)
 Partners:
 Duration: 36 months



2020/05 – **Airborne Data Collection on Resilient System Architectures (ADACORSA)**
 2022/01 Type: H2020 / ECSEL
 Partners: Infenion Technologies, Ruhr-Universitaet Bochum, Fraunhofer Gessellschaft zur Foerderung der Angewandten Forschung E.V., Giesecke Devrient Mobile Security GmbH, ESC Aerospace GmbH, ..., CEA LIST, ...
 Duration: 36 months



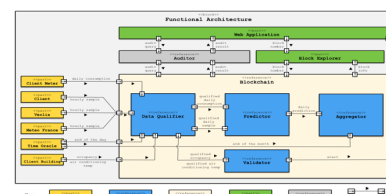
2020/01 – **Réacteur Numerique (Digital Reactor)**
 2023/12 Type: BPI France
 Partners: CEA LIST, EDF, Framatome, CORYS, ANEO, AXONE, BOOST, ESI, CNRS CRAN
 Duration: 4 years



2019/01 – **Blockchain for Nuclear (BCNuc)**
 2022/12 Type: Industrial Project
 Partners: CEA LIST, EDF R&D and Framatome
 Duration: 12 months (multi-year)
 Role: Project Manager



2017/10 – **BlockChaiNergy**
 2018/01 Type: Industrial Project
 Partners: CEA LIST and Veolia Research & Innovation (VERI)
 Duration: 3 months
 Role: Project Manager



2017/09 – **Connecting Food**
 2020/09 Type: Industrial Project
 Partners: CEA LIST and Connecting Food
 Duration: 3 years
 Website: <http://connecting-food.com/>
 Role: Research Engineer



2016/06 – **ESF – Eclipse Safety Framework**

2016/11 Type: Issued by the European project OpenETCS.

Partners: **CEA LIST** and All4Tech.Website: <https://www.polarsys.org/esf/>

Role: Research Engineer

2016/01 – **Romeo 2 – Humanoid Robot Assistant and Companion for Everyday Life**

2016/06 Type: French project founded by Bpifrance as a structural competitiveness structure project (PSPC)

Budget: 2 million Euros

Partners: Aldebaran Robotics, ALL4TECH, VOXLER, SPIROPS, **CEA LIST**, ARMINES – ENSTA PARISTECH, Telecom ParisTech, Approach Association, Inria, CNRS – LAAS, CNRS – LIMSI, CNRS – LIRMM, Collège de France, UPMC ISIR, UVSQ LISV, STRATE.Website: <http://projetromeo.com/en/>

Role: Research Engineer

PROJET
ROMEO

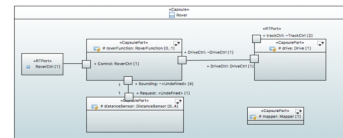
2015 – 2016 **Papyrus for Real-Time (Papyrus-RT)**

Type: Eclipse Open Source Project

Budget: 2 million Euros

Partners: **CEA LIST**, Ericsson, Zeligsoft, Malina Software Corp., Protos, Queen's University.Website: <https://projects.eclipse.org/proposals/papyrus-real-time-papyrus-rt>

Role: Research Engineer

2013 – 2016 **Self-Adaptive Software for Fully Electric Vehicles (SafeAdapt)**

Type: STREP (EU FP7)

Budget: 9.2 million Euros (EU funding: 5.9 million Euros)

Partners: Fraunhofer Institut for Embedded Systems and Communication Technologies ESK, TTTech Computertechnik AG, Fico Mirrors S.A., Fundacion Tecnalia Research & Innovation, **CEA LIST**, Siemens AG, Corporate Technology, Pininfarina SPA, Duracar Holding B.V., Delphi Deutschland GmbH.

Project Coordinator: Dr.-Ing. Dirk Eilers (Fraunhofer ESK)

Website: <http://www.safeadapt.eu/>

Role: Research Engineer

2010 – 2012 **Exploration of Biological Neural Wirings using Agent-based Modeling and Simulation**

Type: Doctoral Scientific Research Project supported by Ege University

Project No: 10-MÜH-004

Budget: 6,300.00 TL

Executive: Oğuz Dikenelli (Ege University)

Role: Researcher

2009 – 2011 **ERASMUS Multilateral Curriculum Development Project “Multinational Undergraduate Team Work (MUTW)”**

Type: Lifelong Learning Programme (LLP) partially financed by EU.

Project No: 503440-LLP-1-2009-1-PT-ERASMUS-ECDEM

Budget: 666,302.00 €

Local Executive: N. Yasemin Topaloğlu (Ege University)

Role: Advisor Assistant

2006 – 2008 **The Implementation of Semantic Web Service Architecture and Testing on**

a Mobile Platform

Type: Scientific Research Project supported by TÜBİTAK

Project No: 106E008

Budget: 133,430.00 YTL

Executive: Oğuz Dikenelli (Ege University)

Role: Researcher

2003 – 2005 **Development of Agent-Mediated E-Commerce System for Tourism Domain (DAMES-T)**

Type: International Research Project supported by TÜBİTAK and Greece General

Secreteriat for Research and Technology (GSRT)

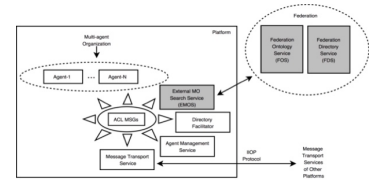
Project No: 102E022.

Ege University, Computer Engineering Dept. (Turkey).

University of the Aegean, Department of Information and Communication Systems Engineering (Greece).

Local Executive: Oğuz Dikenelli (Ege University)

Role: Assistant Student



Publications

(t: Thesis Manuscript, c: Workshop / Conference Paper, j: Journal Article, b: Book Chapter, a: Abstract, r: Technical Report)

Theses

- 2013 [t4] **Önder Gürçan. Exploration of Biological Neural Wiring Using Self-Organizing Agents** (*Étude du câblage Neuronal Biologique à l'Aide d'Agents Auto-Organisateurs*). PhD Thesis (co-tutelle), Université Paul Sabatier (Toulouse 3), Institut de Recherche en Informatique de Toulouse (IRIT), Toulouse, France, 4 September 2013. Advisors: Pierre Glize, Carole Bernon.
- [t3] **Önder Gürçan. Biyolojik Sinir Ağlarının Kendini-Örgütleyen Etmelerle Benzetilmesi**. PhD Thesis, Ege University, Institute of Science and Technology, Computer Engineering Division, Izmir, Turkey, 24 June 2013. Advisors: Oğuz Dikenelli, Kemal S. Türker.
- 2007 [t2] **Önder Gürçan. Servis ile Etmeler Tümlüşümü için bir Planlama Modülü Tasarımı ve Gerçekleştirimi** (*The Design and Implementation of a Planning Module for Service-Agent Integration*). MSc. Thesis, Ege University, Institute of Science and Technology, Computer Engineering Division, Izmir, Turkey, 23 July 2007. Advisor: Oğuz Dikenelli.
- 2004 [t1] **Önder Gürçan. The Design and Implementation of an Agent Framework Communication Layer** (*Bir Etmeler Çerçevesi İletişim Katmanının Tasarımı ve Gerçekleştirimi*). BSc. Thesis, Ege University Computer Engineering Department, Izmir, Turkey, 25 June 2004. Advisor: Oğuz Dikenelli

Sole Author Publications

- 2022 [j7] **Önder Gürçan. Proof-of-Work is a Stigmergic Consensus Algorithm**. IEEE Robotics and Automation Magazine, vol. 29, No. 2, June, 2022. (accepted)
- [c34] **Önder Gürçan. Proof-of-Work as a Stigmergic Consensus Algorithm: Extended Abstract**. In Proc. of the 21st International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2022), Online, May 9–13, 2022, IFAAMAS, 3 pages..
- 2020 [c29] **Önder Gürçan. On Using Agent-based Modeling and Simulation for Studying Blockchain Systems**. In JFMS 2020—Les Journées Francophones de la Modélisation et de la Simulation—Convergences entre la Théorie de la Modélisation et la Simulation et les Systèmes Multi-Agents; Cépaduès, Cargese, France, November 2020; pp. 23–24.
- 2019 [c28] **Önder Gürçan. Multi-Agent Modelling of Fairness for Users and Miners in Blockchains**. In: De La Prieta F. et al. (eds) Highlights of Practical Applications of Survivable Agents and Multi-Agent Systems. The PAAMS Collection. PAAMS 2019. Communications in Computer and Information Science, vol 1047. Springer, Cham, doi: 10.1007/978-3-030-24299-2_8
- 2014 [j5] **Önder Gürçan. Effective Connectivity at the Synaptic Level in Humans: a Review and Future Prospects**. *Journal of Biological Cybernetics*, published online 16 August 2014, Springer Berlin Heidelberg, doi: 10.1007/s00422-014-0619-1.
- 2013 [c16] **Önder Gürçan. An Emergent Model for Mimicking Human Neuronal Pathways in Silico**. In *Advances in Artificial Life, ECAL 2013*, volume 12, pages 1172-1173, MIT press, 2013.

Joint Author Publications

- 2022 [j9] Mert Özgün, **Önder Gürçan**, Reyhan Aydoğan. **Towards Trustworthy Teamwork among Autonomous Drones through Blockchain**. IEEE Internet Computing, 2022. (in preparation)
- [j8] Hector Roussille, **Önder Gürçan**, Fabien Michel. **A Role based Analysis of Vulnerabilities and Attack Vectors in Blockchain Systems**. IEEE Internet Computing, 2022. (in preparation)
- [e1] Fabio Bonsignorio, Aleksandr Kapitonov, **Önder Gürçan**. **The Blockchain in Intelligent Robotics and Automation Applications**. IEEE Robotics and Automation Magazine, Focus Session Editorial, vol. 29, No. 2, June, 2022.
- [c33] Tahina Ralitera, Agnès Lanuss, **Önder Gürçan**. **On Using Blockchains for Beyond Visual Line of Sight (BVLOS) Drones: An Architectural Study**. In HiPEAC'22: International Conference on High Performance and Embedded Architectures and Compilers, January 17–19, 2022, Budapest, Hungary. ACM, ISBN: 978-1-4503-9566-3, New York, NY, USA.
- [j6] Hector Roussille, **Önder Gürçan**, Fabien Michel. **AGR4BS: A Generic Multi-Agent Organizational Model for Blockchain Systems**. Big Data and Cognitive Computing. 2022; 6(1):1. <https://doi.org/10.3390/bdcc6010001>
- 2021 [c32] Chaïmaa Benabbou, **Önder Gürçan**. **A Survey of Verification, Validation and Testing Solutions for Smart**

- Contracts.** In Proceeding of The 3rd IEEE International Conference on Blockchain Computing and Applications (BCCA 2021), November 15-17, 2021, Tartu, Estonia, pages 57-64, <https://doi.org/10.1109/BCCA53669.2021.9657040>
- [c31] Pierre-Yves Piriou, Olivier Boudeville, Gilles Deleuze, Sara Tucci-Piergiovanni, **Önder Gürçan**. **Justifying the Dependability and Security of Business-Critical Blockchain-based Applications.** In Proceedings of The 3rd IEEE International Conference on Blockchain Computing and Applications (BCCA 2021), November 15-17, 2021, Tartu, Estonia, pages 97-104, <https://doi.org/10.1109/BCCA53669.2021.9656962>
- [c30] Morteza Alaeddini, Julie Dugdale, Paul Reaidy, Philippe Madiès, **Önder Gürçan**. **An Agent-oriented, Blockchain-based Design of the Interbank Money Market Trading System.** Proceedings of the 15th International KES Conference – Agent & Multi-Agent Systems: Technologies and Applications (KES-AMSTA-21), pages 3-16, https://doi.org/10.1007/978-981-16-2994-5_1, 14-16 June 2021.
- 2019 [a3] **Önder Gürçan**, Sara Tucci-Piergiovanni. **De la blockchain pour la confiance.** CLEFS: l'Intelligence Artificielle, volume 69, page 25, December 2019.
- [j5] Nicolas Lagaillardie, Mohamed Aimen Djari, **Önder Gürçan**. **A Computational Study on Fairness of the Tendermint Blockchain Protocol.** Information, Special Issue "Blockchain Technologies for Multi-Agent Systems", volume 10, number 12, issn 2078-2489, doi: 10.3390/info10120378, MDPI, 2019.
- [c27] Gewu Bu, **Önder Gürçan**, Maria Potop-Butucaru. **G-IOTA: Fair and b confidence aware tangle.** 2nd Workshop on Cryptocurrencies and Blockchains for Distributed Systems ([CryBlock 2019](#)), co-located with INFOCOM 2019, April 29, 2019, Paris, France.
- 2018 [c26] **Önder Gürçan**, Alejandro Ranchal Pedrosa, Sara Tucci-Pergiovanni. **On Cancellation of Transactions in Bitcoin-like Blockchains.** 26th International Conference on Cooperative Information Systems (CoopIS 2018): On The Move Federated Conferences and Workshops 2018, October 22-26, 2018, Valetta, Malta.
- [c25] **Önder Gürçan**, Marc Agenis-Nevers, Yves-Marie Batany, Mohamed Elmtiri, François Le Fevre, Sara Tucci-Piergiovanni. **An Industrial Prototype of Trusted Energy Performance Contracts using Blockchain Technologies.** The 16th IEEE International Conference on Smart City (SmartCity-2018), 28-30 June 2018, Exeter, UK.
- [r3] François Le Fevre, **Önder Gürçan**. **L2 – BlockChaiNergy PoC Demonstrator Guidelines.** CEA Technical Report, DRT/LIST/DILS/18-0072/OG, 9 May 2018, Saclay, France.
- [r2] **Önder Gürçan**, François Le Fevre. **L1 – BlockChaiNergy PoC Technical and Functional Specification.** CEA Technical Report, DRT/LIST/DILS/18-0045/OG, 8 March 2018, Saclay, France.
- [c24] Zaynah Dargaye, **Önder Gürçan**, Florent Kirchner, Sara Tucci-Piergiovanni. **Towards Secure and Trusted-by-Design Smart Contracts.** Les vingt-neuvièmes Journées Francophones des Langages Applicatifs (The 29th Francophone Days of Application Languages - JFLA 2018), January 24-27, 2018, Banyuls-sur-Mer, France.
- 2017 [c23] **Önder Gürçan**, Antonella Del Pozzo, Sara Tucci-Piergiovanni. **On the Bitcoin Limitations to Deliver Fairness to Users.** 25th International Conference on Cooperative Information Systems (CoopIS 2017): On The Move Federated Conferences and Workshops 2017, October 23-27, 2017, Rhodes, Greece.
- [r1] **Önder Gürçan**, Antonella Del Pozzo, Sara Tucci-Piergiovanni. **Limitations of Bitcoin-like Blockchains in Delivering Fairness to Users.** CEA Technical Report, DRT/LIST/DILS/17-0127/OG, August 1, 2017, Saclay, France.
- [a2] Sara Tucci, Hassan Sleiman, Anthony Larue, **Önder Gürçan**. **Interactions sous contrôle.** CLEFS: Voyage au cœur du Big Data, volume 64, page 12, Juin 2017.
- 2015 [c22] Ramil Agliamzanov, **Önder Gürçan**, Assia Belbachir, K. Sinan Yildirim. **Robust and Efficient Self-Adaptive Position Tracking in Wireless Embedded Systems.** 8th IFIP Wireless and Mobile Networking Conference (WMNC 2015), October 5-7, 2015, Munich, Germany.
- [c21] **Önder Gürçan**, Nataliya Yakymets, Sara Tucci. **Multi-Agent Optimization for Safety Analysis of Cyber-Physical Systems : Position Paper.** 2nd International Workshop on Emerging Ideas and Trends in Engineering of Cyber-Physical Systems, part of Cyber-Physical Systems Week, April 2015, Seattle, USA.
- 2014 [c20] Van Cam Pham, **Önder Gürçan**, Ansgar Radermacher. **Interaction Components Between Components based on a Middleware.** 1st International Workshop on Model-Driven Engineering for Component-based Software Systems (ModComp'14) to be held at ACM/IEEE 17th International Conference on Model Driven Engineering Languages and Systems (MODELS 2014), September 28-30, 2014, Valencia, Spain.
- [b1] Ansgar Radermacher, **Önder Gürçan**, Arnaud Cuccuru, Sébastien Gérard, Brahim Hamid. **Split of Composite**

- Components for Distributed Applications.** Torsten Maehne and Marie-Minerve Louërat (eds). *Languages, Design Methods, and Tools for Electronic System Design* (chap. 14), pages 255-267, Springer, September 2014, doi:10.1007/978-3-319-06317-1_14.
- [c19] İbrahim Çakırlar, **Önder GürCAN**, Oğuz Dikenelli, Şebnem Bora. **RatKit: A Repeatable Automated Testing Toolkit for Agent-based Modeling and Simulation.** *the 15th International Workshop on Multi-Agent Simulation (MABS 2014) to be held at the 13th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2014)*, May 5-6, 2014, Paris, France.
- [c18] Kasım Sinan Yıldırım, **Önder GürCAN**. **Adaptive Synchronization of Robotic Sensor Networks.** *International Workshop on Robotic Sensor Networks, part of Cyber-Physical Systems Week*, April 2014, Berlin, Germany.
- [j4] Kasım Sinan Yıldırım, **Önder GürCAN**. **Efficient Time Synchronization in Wireless Sensor Networks by Adaptive Value Tracking.** *IEEE Transactions on Wireless Communications*, volume 13, number 7, pages 3650-3664, July 2014, doi :10.1109/TWC.2014.2316168.
- 2013 [c17] **Önder GürCAN**, Kasım Sinan Yıldırım. **Self-Organizing Time Synchronization of Sensor Networks with Adaptive Value Trackers.** *Proceedings of the Seventh IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'2013)*, pages 91-100, DOI 10.1109/SASO.2013.22, 9-13 September 2013, Philadelphia, USA.
- [j3] **Önder GürCAN**, Kemal S. Türker, Jean-Pierre Mano, Carole Bernon, Oğuz Dikenelli, Pierre Glize. **Mimicking human neuronal pathways in silico: an emergent model on the functional connectivity.** *Journal of Computational Neuroscience*, advance online publication 4 July 2013, doi: 10.1007/s10827-013-0467-3.
- [j2] **Önder GürCAN**, Oğuz Dikenelli, Carole Bernon. **A Generic Testing Framework for Agent-Based Simulation Models.** *Special Issue on "Agent-Based Modeling and Simulation", Journal of Simulation*, advance online publication 25 January 2013, volume 7, pages 183-201, doi: 10.1057/jos.2012.26.
- 2012 [c15] **Önder GürCAN**, Carole Bernon, Kemal S. Türker, Jean-Pierre Mano, Pierre Glize, Oğuz Dikenelli. **Simulating Human Single Motor Units using Self-Organizing Agents.** *Proceedings of the Sixth IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'2012)*, pages 11-20, DOI 10.1109/SASO.2012.18, 10-14 September 2012, Lyon, France.
- [j1] Özgür Gümüş, **Önder GürCAN**, Oğuz Dikenelli. **Anlamsal Servis Aracılığı için Bir Çok-Etmenli Sistem ve Aracılık Etkileşim Protokolü (A Multi-Agent System and a Brokering Interaction Protocol for Semantic Service Brokering).** *Bilişim Teknolojileri Dergisi*, volume 5, issue 2, pages 9-24, May 2012.
- 2011 [c14] **Önder GürCAN**, Oğuz Dikenelli, Carole Bernon. **Towards a Generic Testing Framework for Agent-Based Simulation Models.** *Proceedings of the 5th International Workshop on Multi-Agent Systems and Simulation (MAS&S 2011)*, pages 637-644, doi: 10.13140/2.1.4528.2240, September 2011, Szczecin, Poland.
- [c13] **Önder GürCAN**, Carole Bernon, Kemal S. Türker. **Towards a Self-Organized Agent-Based Simulation Model for Exploration of Human Synaptic Connections.** *Proceedings of the 2nd Computer Science Student Workshop (CSW'11)*, April 2011, Istanbul, Turkey.
- 2010 [c12] **Önder GürCAN**, Oğuz Dikenelli, Kemal S. Türker. **Agent-based Exploration of Wiring of Biological Neural Networks: Position Paper.** *In Proceedings of the 20th European Meetings on Cybernetics and Systems Research (EMCSR 2010)*, pages 509-514, April 6-9, 2010, University of Vienna, Austria, EU
- [a1] **Önder GürCAN**, Oğuz Dikenelli, Kemal S. Türker. **Understanding Wiring of Human CNS using Agent-based Modeling and Simulation.** *Turkish Journal of Neurology*, volume 16, supplement 1, pages 219-220, March 2010.
- 2008 [c11] Özgür Gümüş, **Önder GürCAN**, Oğuz Dikenelli. **Anlamsal Veb Servisleri Ortamında Bir Aracı Etmen Tasarımı ve Gerçekleştirimi (The Design and Implementation of a Broker Agent in the Semantic Web Services Environment).** *2nci Ulusal Yazılım Mimarisi Konferansı UYMK'2008 (2nd National Software Architectures Conference)*, Izmir, Turkey, September 11-12, 2008.
- [c10] Özgür Gümüş, **Önder GürCAN**, Oğuz Dikenelli. **Towards a Broker Agent in the Semantic Services Environment.** *In Service-Oriented Computing: Agents, Semantics, and Engineering*, volume 5006 of LNCS, pages 31-44. Springer-Verlag, 2008.
- 2007 [c9] Erdem Eser Ekinci, Ali Murat Tiryaki, **Önder GürCAN**, Oğuz Dikenelli. **A Planner Infrastructure for Semantic Web Enabled Agents.** *In On the Move to Meaningful Internet Systems 2007: OTM 2007 Workshops*, volume 4805 of LNCS, pages 95-104, Springer-Verlag, 2007.
- [c8] Özgür Gümüş, **Önder GürCAN**, Geylani Kardeş, Erdem Eser Ekinci, Oğuz Dikenelli. **Engineering an MAS Platform**

for **Semantic Service Integration based on SWSA**. In *On the Move to Meaningful Internet Systems 2007: OTM 2007 Workshops*, volume 4805 of LNCS, pages 85-94, Springer-Verlag, 2007.

- [c7] **Önder Gürçan**, Geylani Kardaş, Özgür Gümüş, Oğuz Dikenelli, İbrahim Çakırlar, Övünç Çetin, A. Burak Eliaçık, Hüseyin Kır. **Etmen Tabanlı bir Anlamsal Servis Platformu (An Agent-based Semantic Services Platform)**. *3ncü Ulusal Yazılım Mühendisliği Sempozyumu ve Sergisi UYMS'2007 (3rd National Software Engineering Symposium)*, Ankara, Turkey, September 27-30, 2007.
- [c6] **Önder Gürçan**, Geylani Kardaş, Özgür Gümüş, Erdem Eser Ekinci, Oğuz Dikenelli. **An MAS Infrastructure for Implementing SWSA based Semantic Services**. In *Service-Oriented Computing: Agents, Semantics, and Engineering*, volume 4504 of LNCS, pages 118-131. Springer-Verlag, 2007.
- 2006 [c5] **Önder Gürçan**, Geylani Kardaş, Özgür Gümüş, Erdem Eser Ekinci, Oğuz Dikenelli. **A Planner for Implementing Semantic Web Agents based on Semantic Web Services Initiative Architecture**. *Proceedings of the 4th European Workshop on Multi-Agent Systems (EUMAS'2006)*, Lisbon, Portugal, December 14-15, 2006. Published by CEUR, Vol-223, ISSN 1613-0073.
- [c4] Oğuz Dikenelli, Rıza Cenk Erdur, Geylani Kardaş, Özgür Gümüş, İnanç Seylan, **Önder Gürçan**, Ali Murat Tiryaki, Erdem Eser Ekinci. **Developing Multi Agent Systems on Semantic Web Environment using SEAGENT Platform**. *Engineering Societies in the Agents World VI, Revised Selected and Invited Papers*. LNAI 3963, Springer-Verlag, 2006, p 1-13.
- 2005 [c3] Rıza Cenk Erdur, Oğuz Dikenelli, İnanç Seylan, **Önder Gürçan**. **Semantically Federating Multi-Agent Organizations**. *Engineering Societies in the Agents World V, Revised Selected and Invited Papers*. LNCS 3451, Springer-Verlag, August 2005, p 74-89.
- [c2] Oğuz Dikenelli, Rıza Cenk Erdur, Erdem Eser Ekinci, Özgür Gümüş, **Önder Gürçan**, Geylani Kardaş, İnanç Seylan, Ali Murat Tiryaki. **SEAGENT: A Platform for Developing Semantic Web Based Multi Agent Systems**. *4th International Conference on Autonomus Agents and Multi-Agent Systems (AAMAS'05)*, July 2005, Utrecht University, The Netherlands. ACM. Poster.
- 2004 [c1] Rıza Cenk Erdur, Oğuz Dikenelli, İnanç Seylan, **Önder Gürçan**. **An Infrastructure for the Semantic Integration of FIFA Compliant Agent Platforms**. *3rd International Joint Conference on Autonomus Agents and Multi-Agent Systems (AAMAS'04)*, July 2004, New York City, NY, USA. Proceedings, Vol. 3. ACM Press, 2004.

Editorships

- 2021 [e1] *Proceedings of the Third International Conference on Blockchain Computing and Applications (BCCA'2021)*. Mohammad Alsmirat, Moayad Aloqaily, Yaser Jararweh, Öznur Özkasap and **Önder Gürçan** editors, ISBN: 978-1-6654-2182-9, doi: 10.1109/BCCA53669.2021.9656969, IEEE, Virtual Event, Estonia, 15-16 November 2021.

Demonstrations

- 2018 [d2] **Önder Gürçan**, Marc Agenis-Nevers, Yves-Marie Batany, Mohamed Elmtiri, François Le Fevre, Sara Tucci-Piergiovanni. **An Industrial Prototype of Trusted Energy Performance Contracts using Blockchain Technologies**. DigiHallDays, Paris, France, 22 May 2018.
- 2012 [d1] **Önder Gürçan**, Carole Bernon, Kemal S. Türker, Jean-Pierre Mano, Pierre Glize, Oğuz Dikenelli. **Simulating Human Single Motor Units using Self-Organizing Agents**. *The Sixth IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO'2012)*, Lyon, France, 10-14 September 2012.

Trainings / Summer Schools

- 2021 [11] Reinforcement Learning Virtual School, ANITI, Toulouse, March 25-26, April 1-2, and April 8-9, 2021.
- 2020 [10] Chefs de projet – Fondamentaux: Développer les relations de coopération et d'influence dans les projets (Project managers - Fundamentals: Develop relations of cooperation and influence in projects), EIKOS Concepts, 17-18 November 2020.
- 2018 [9] Introduction to Complex Systems, Sante Fe Institue, October 2018 – February 2019.
- 2015 [8] SafeAdapt TTEthernet Training, 3-4 March 2015, Vienna, Austria.

- 2014 [7] Summer school on Cyber-Physical Systems – 2014 Edition, 7-10 July 2014, Grenoble, France.
[6] Labex DigiCosme Spring School, 12-16 May 2014, Supelec Campus, Gif-Sur-Yvette, France.
- 2013 [5] Summer school on Graphical models for the characterisation of information flow in complex networks: Application in neuroimaging (GMINEURO), 8-12 July 2013, Grenoble, France.
- 2012 [4] The 8th International Summer School on Training and Research on Testing (TAROT 2012), 2-6 July 2012, Beçanson/Métabief, France.
- 2010 [3] The 1st Software Engineering Summer School and Workshop (*1. Yazılım Mühendisliği Yaz Okulu ve Çalıştay*), Çanakkale, Turkey, 26-30 July, 2010.
[2] The 2nd CASE Summer School on Applied Software Engineering – Empirical Analysis of Software Processes and Products, Bozen-Bolzano, 19-23 July 2010.
- 2009 [1] Introductory Course in Individual-, and Agent-Based Modeling, Bad Shandau, Germany, 14-27 June 2009.
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Invited Talks

- 2022 [19] **Modeling and Simulating Blockchain Systems.** « Crypto-monnaies et autres monnaies alternatives numériques », Journées d'étude pluridisciplinaire jeunes chercheurs, 28-29 June 2022, Lyon, France.
- 2021 [18] **On Using Agent-based Modeling and Simulation of Blockchain Systems.** European Robotics Forum (ERF) 2021 Workshop on 'Blockchain in Robotics and AI', 15 April 2020, Online.
- 2020 [17] **Modeling and Simulating Blockchain Systems.** Paris Blockchain Week Summit 2020, 9 December 2020, Paris, France.
[16] **Blockchain Systems: from Research to Industry.** Blockchain Summer Internship Turkey 2020 (BCSI-TR), 22 July 2020, Muğla, Turkey.
[15] **On Using Agent-based Modeling and Simulation for Studying Blockchain Systems.** European Robotics Forum (ERF) 2020 Workshop on 'Blockchain, Web 3.0 and 'Future Internet' applications in Robotics', 4 March 2020, Malaga, Spain.
- 2019 [14] **An Industrial Prototype of Trusted Energy Performance Contracts using Blockchain Technologies,** Bi-weekly Meeting of the IEEE P2418.5 Standards Development Working Group (Blockchain in Energy), Webex, 27 November 2019.
[13] **Blockchain as a Potential Disruptive Technology for the Energy Domain,** [Workshop on Energy Flexibility Management at Districts](#), Mercure Exeter Rougemont Hotel, Exeter, UK, 1 November 2019.
[12] **Discover How MAX can Help Your Organization Harness the Power of Blockchains,** Kick-off Meeting CNIS 2019, Ecole des Mines de Paris, Paris, France, 25 September 2019.
[11] **The Mutually Beneficial Relationship of Self-Adaptition and Blockchains,** Applications of Multi-Agent Systems and Complex Systems, Institut de Recherche en Informatique de Toulouse (IRIT), Toulouse, France, 19 March 2019.
[10] **Fairness for Users and Miners: a Multi-Agent Approach,** École Nationale Supérieure (ENS) Mines de Saint-Etienne, Saint-Etienne, France, 24 January 2019.
- 2018 [9] **Fairness for Users and Miners: a Multi-Agent Approach,** Blockchain Day: from Practice to Theory, Paris, France, 19 June 2018.
- 2017 [8] **Creating trustworthy supply chains via fairness,** Workshop on Blockchain and digital value chain: foundations, governance, opportunities, Forum Teratec 2017, Ecole Polytechnique, Palaiseau, France, 27-28 June 2017.
- 2014 [7] **Self-Adaptation for Cyber-Physical Systems,** CEA LIST/DILS/LISE, LISE au VERT, Deauville, France, 26 June 2014.
[6] **Experiences on Self-Adaptive Systems,** CEA LIST/DILS/LISE, CEA/Saclay NanoINNOV, Gif-Sur-Yvette, France, 17 January 2014.
- 2013 [5] **Mimicking Human Neuronal Pathways using Self-Organizing Agents,** Laboratoire d'Informatique, de Robotique et de Microélectronique de Montpellier (LIRMM), Montpellier, France, 28 March 2013.
[4] **Mimicking Human Neuronal Pathways using Agent-Based Modeling,** EPIcx Laboratory, Institut National de la Santé et de la Recherche Médicale (INSERM), Paris, France, 6 March 2013.
[3] **Mimicking Human Neuronal Pathways in Silico,** Neurophysics and Physiology Laboratory, Faculty of Medicine, Paris Descartes University, Paris, France, 25 February 2013.
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- 2012 [2] **Mimicking Human Neuronal Pathways in Silico**, Department of Neurorehabilitation Engineering, BFNG/BCCN, University Medical Center Göttingen, Göttingen, Germany, 14 December 2012.

Service to Academy

Journal Special Issue Editorships

MDPI Robotics, Special Issue "[Blockchain Technology for Robotic Systems](#)" (2021)

Journal Editorial Board Memberships

"[Architectural Trends in Service-driven Computing](#)", Raja Ramanathan eds., IGI Global, June 2014. (1 chapter)

Journal Refereeing

Springer International Journal of Social Robotics (2022), IEEE Parallel and Distributed Systems (2022), Frontiers in Robotics and AI (2021), IEEE Transactions of Industrial Informatics (2020), MDPI Journal of Risk and Financial Management (2019), MDPI Applied Sciences (2019), Future Generation Computer Systems (2019), MDPI Informatics (2017), MDPI Sensors (2017), Springer Autonomous Robots (2017), IEEE Transactions of Wireless Communications (2015, 2016, 2017), Journal of Simulation (2014), ACM Transactions of Modeling and Computer Simulation (TOMACS) Special Issue on Special Issue on Advances in Cellular Automata Modeling (2014)

Conferences/Workshops Program Committee Memberships

- 2022 [c29] International Co-located IEEE conferences CyberSciTech / PICom / DASC / CBDCom 2022, 5-8 September 2022, Calabria, Italy.
- [c28] the Fifth International Workshop on Intelligent Transportation and Autonomous Vehicles Technologies (ITAVT 2022) co-located with the 2022 IEEE/IFIP Network Operations and Management Symposium (NOMS 2022), 25-29 April 2022, Budapest, Hungary.
- 2021 [c27] International Workshop on Intelligent Communications for Decentralized Energy Management (EnergyCom2021) co-located with IEEE GLOBECOM 2021, 7-11 December 2021, Madrid, Spain.
- [c26] The 23rd IEEE Conference on Business Informatics ([CBI'2021](#)), 01-03 September 2021, Virtual Event.
- [c25] The 4th International Workshop on Intelligent Transportation and Autonomous Vehicles Technologies ([ITAVT 2021](#)), 17-21 May 2021, Bordeaux, France.
- [c24] The 20th International Conference on Autonomous Agents and Multiagent Systems ([AAMAS 2021](#)), May 2021, London, UK.
- 2020 [c23] Track 1: AI, Agent Systems and Ambient Intelligence of The ACS/IEEE International Conference on Computer Systems and Applications (AICCSA'2020), 02-05 November 2020, Antalya, Turkey.
- [c22] The 2nd International Conference on Blockchain Computing and Applications (BCCA 2020), 02-05 November 2020, Antalya, Turkey.
- [c21] The 10th International Conference on Advanced Communications and Computation (INFOCOMP 2020), September 27 to October 01, 2020 - Rome, Italy.
- [c20] IJCAI-PRICAI Workshop on Blockchain and AI ([BAI 2020](#)), July 11-12, 2020, Yokohama, Japan.
- [c19] The 3rd International Workshop on Blockchains and Smart Contracts ([BSC 2020](#)) in conjunction with the 11th IFIP International Conference on New Technologies, Mobility and Security (IFIP NTMS), 6-8 July 2020, Paris, France.
- [c18] The 2nd International Workshop on EXplainable TRansparent Autonomous Agents and Multi-Agent Systems ([EXTRAAMAS 2019](#)) in conjunction with the 19th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2020), 9-13 May 2020, Auckland, New Zealand.
- [c17] The 3rd International Workshop on Intelligent Transportation and Connected Vehicles Technologies (ITCVT 2020) - <https://emergingtechnet.org/ITCVT2020/> - to be held in conjunction with the 32th IEEE/IFIP Network Operations and Management Symposium (NOMS 2020), 20-24 April 2020, Budapest, Hungary.
- [c16] The 1st International Symposium on Artificial Intelligence in Healthcare (1. Uluslararası Sağlıkta Yapay Zeka Sempozyumu), 7-8 February 2020, Izmir, Turkey.

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- 2019 [c15] The 1st International Workshop on Blockchain Technologies for Robotic Systems (BCT4ROS'2019) in conjunction with the 28th IEEE International Conference on Robot & Human Interactive Communication (RO-MAN 2019), 17 October 2019, Le Meridien, Windsor Place in New Delhi, India
- [c14] The 2nd International Workshop on Block Chain Technologies 4 Multi-Agent Systems (BCT4MAS) in conjunction with the 17th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 2019), 26-28 June 2019, Ávila, Spain.
- [c13] The 1st International Workshop on EXplainable TRansparent Autonomous Agents and Multi-Agent Systems ([EXTRAAMAS 2019](#)) in conjunction with the 18th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2019), 13-17 May 2019, Montreal, Canada.
- [c12] The 2nd International Workshop on Blockchains and Smart Contracts ([BSC 2019](#)) in conjunction with the 10th IFIP International Conference on New Technologies, Mobility and Security (IFIP NTMS), 24-26 June 2019, Canary Islands, Spain.
- 2016 [c11] International Workshop on AI Empowers the Smart Grid held at ECAI 2016, 29-30 August 2016, The Hague, Holland.
- [c10] The 8th International Workshop on Model-based Architecting of Cyber-Physical and Embedded Systems (ACES-MB15) in conjunction with MODELS 2015, September 28, 2015, Ottawa, Canada. (as sub-reviewer)
- 2014 [c9] The 1st International Workshop on Model-Driven Engineering for Component-based Software Systems (ModComp'2014) to be held at MODELS 2014, 28-30 September, Valencia, Spain. (as sub-reviewer)
- [c8] ACM/IEEE 17th International Conference on Model Driven Engineering Languages and Systems (MODELS 2014), 28 September – 3 October 2014, Valencia, Spain. (as sub-reviewer)
- [c7] International Workshop on Next Generation of System Assurance Approaches for Safety-Critical Systems (SASSUR 2014) held at the 33rd International Conference on Computer Safety, Reliability and Security (SAFECOMP 2014), Firenze, Italy, September 9th 2014. (as sub-reviewer)
- [c6] the « Poster » Track of the 8th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2014), London, UK; September 8-12, 2014.
- [c5] the « Next Generation of System Assurance Approaches for Safety Critical Systems » (SASSUR) Workshop to be held at the International Conference on Computer Safety, Reliability and Security (SafeComp'2014), Florence, September, 2014.
- [c4] the « Self-Organizing Multi-Agent Systems: Technologies and Applications » Invited Session of the 8th International KES Conference on Agents and Multi-Agent Systems – Technologies and Applications (KES AMSTA 2014), Chania, Greece, June 18-20, 2014.
- 2013 [c3] the « Demo » Session of the 7th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2013), Philadelphia, USA; September 9-13, 2013.
- [c2] the « Poster » Track of the 7th IEEE International Conference on Self-Adaptive and Self-Organizing Systems (SASO 2013), Philadelphia, USA; September 9-13, 2013.
- 2011 [c1] the 2nd Computer Science Student Workshop, İstanbul, Turkey, 9 April 2011.

Conference/Workshop/Track Organization Activities

- 2022 [16] Program co-chair of the 4th International Conference on Blockchain Computing and Applications ([BCCA 2022](#)), 5-7 September 2022, San Antonio, Texas, USA.
- [15] Initiator and co-organizer of 1st Tutorial on on Blockchain Technologies for Robotic Systems (BCT4ROS'2022) in conjunction with the 30th IEEE International Conference on Robot & Human Interactive Communication (RO-MAN 2022), August 29 – September 2 2022, Naples, Italy. (accepted)
- 2021 [14] Initiator and co-organizer of 3rd International Workshop on Blockchain Technologies for Robotic Systems (BCT4ROS'2021) in conjunction with the 30th IEEE International Conference on Robot & Human Interactive Communication (RO-MAN 2021), August 8-12 2021, Waterloo, Canada, Online.
- [13] Program co-chair of the 3rd International Conference on Blockchain Computing and Applications ([BCCA 2021](#)), 15-17 November 2021, Tartu, Estonia.
- [12] Co-organizer of International Workshop on Blockchain Applications in Robotics and Automation (BARA'2021) in

conjunction with the 2021 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2021), September 27 – October 1, 2021, Prague, Czech Republic, Online.

- 2020 [11] Publication co-chair of the 2nd International Conference on Blockchain Computing and Applications ([BCCA 2020](#)), 02-05 November 2020, Antalya, Turkey.
- [10] Co-chair of the *Industrial Track* of the OnTheMove 2020 Federated Conferences and Workshops, 11-15 October 2020, Rhodes, Greece.
- [9] Initiator and co-organizer of 2nd International Workshop on Blockchain Technologies for Robotic Systems (BCT4ROS'2020) in conjunction with the 29th IEEE International Conference on Robot & Human Interactive Communication (RO-MAN 2020), 4 September 2020, Royal Continental Hotel, Naples, Italy, Online.
- [8] Co-chair of the *Industry 4.0 (Industry Applications) Track* of the 22nd IEEE Conference on Business Informatics ([CBI'2020](#)), 23-25 June 2020, Antwerp, Belgium.
- [7] Co-organizer of the 3rd International Workshop on *Block Chain Technologies 4 Multi-Agent Systems* (BCT4MAS) in conjunction with the 18th International Conference on Practical Applications of Agents and Multi-Agent Systems (PAAMS 2019), 17-19 June 2019, Aquila, Italy.
- 2019 [6] Initiator and co-organizer of 1st International Workshop on *Blockchain Technologies for Robotic Systems* (BCT4ROS'2019) in conjunction with the 28th IEEE International Conference on Robot & Human Interactive Communication (RO-MAN 2019), 17 October 2019, Le Meridien, Windsor Place in New Delhi, India
- 2012 [5] Local organizer of the 4th National Conference on *Software Architecture* (4ncü Ulusal Yazılım Mimarisi Konferansı UYMK'12), 7-8 December 2012.
- 2010 [4] Local organizer of the 3rd General Meeting of Multilateral Project “Multinational Undergraduate Team Work (MUTW)” approved under LLP, Izmir, Turkey, 21-24 June 2010.
- 2009 [3] Local organizer of the International Workshop and Conference on *Human Reflexes – Wiring and Firing of Motoneurons*, 11-15 May 2009, İzmir, Turkey.
- 2008 [2] Local organizer of the 2nd National Conference on *Software Architecture* (2nci Ulusal Yazılım Mimarisi Konferansı UYMK'08), 26-28 September 2008.
- 2005 [1] Local organizer of the 6th International Workshop on *Engineering Societies in the Agents World* (ESAW'05), 26-28 October 2005.

Awards & Grants

- 2013 [8] Lockheed Martin Student Travel Grant for SASO'2013, September 2013.
- 2012 [7] ACM (Association for Computing Machinery) SIGSIM (Special Interest Group on Simulation) supported WSC'2012 Travel Grant, December 2012.
- 2010 [6] Cotutelle Scholarship of French Government, 15 months over 3 years, September 2010.
- [5] TÜBİTAK Scholarship covering the conference fee and travel costs for 9th National Neuroscience Congress, April 2010.
- [4] The International Federation for Systems Research Conference Scholarship covering the conference fee for EMCSR'2010.
- 2009 [3] Erasmus Staff Training Program, Bologna University, 1 week, September 2009.
- 2008 [2] TÜBİTAK Domestic PhD Grant, 4 years, October 2008.
- 2006 [1] ACM (Association for Computing Machinery) SIGART (Special Interest Group on Artificial Intelligence) supported AAMAS'06 Travel Grant, May 2006.

Professional Societies

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|--------|--|-----------------------------|
| 2018 – | International Standardization Organization – ISO | <i>International Expert</i> |
| 2018 – | Association Française de Normalisation – AFNOR (French Standardisation Association) | <i>National Expert</i> |
| 2015 – | Association Française d'Ingénierie Système – AFIS (French Systems Engineering Association) | <i>Member</i> |
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2011 – 2014	International Society for Artificial Life – ISAL	<i>Student Member</i>
2009 – 2014	ACM Special Interest Group on Simulation and Modeling – ACM SIGSIM	<i>Student Member</i>
2009 – 2014	The Institute of Electrical and Electronic Engineers – IEEE	<i>Student Member</i>
2004 – 2012	Elektrik Mühendisleri Odası – EMO (Chamber of Electrical Engineers)	<i>Member</i>

Teaching Activities

2021/2022	<i>Blockchain Systems</i> Main Course & Practical Work, 32 hours École Nationale Supérieure d'Informatique pour l'Industrie et l'Entreprise (ENSIIE) (Évry, France)	2022	<i>Simulation-based Analyses of Blockchain Systems</i> Main Course, 20 hours Institut Polytechnique des Sciences Avancées (Paris, France)
2018 – 2021	<i>Distributed Artificial Intelligence</i> Practical Work, 32 hours Institut Polytechnique des Sciences Avancées (Paris, France)	2012	<i>Test-Driven Development</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)
2011 – 2013	<i>Automata Theory</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)	2011	<i>Physics II</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)
2009	<i>Web Services</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)	2007 – 2010, 2012	<i>Programming Languages</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)
2006 – 2009, 2011 – 2013	<i>Software Engineering</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)	2005, 2009, 2011	<i>Object-Oriented Programming</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)
2005 – 2008	<i>Data Structures</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)	2005 – 2013	<i>Object-Oriented Analysis and Design</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)
2005 – 2006	<i>Server-side Software Technologies</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)	2005	<i>Digital Electronic</i> Practical Work, 42 hours Ege University Computer Engineering Depart. (Izmir, Turkey)

Postgraduate Supervision

Sole or Joint Supervision of PhD Students

2020.09.01	Hector Rousille, Deep Reinforcement Learning Agents Revealing Uncertainties in Blockchain Systems ,
2023.08.31	Université de Montpellier Supervisors: Fabien Michel, Önder Gürçan

Sole or Joint Supervision of Master Students

2021.09.15	Mert Özgün, Blockchain-based Fault-Tolerant Reputation Approach for Multi-UAV Systems ,
2022.07.15	Özyeğin University Supervisors : Reyhan Aydoğdu, Önder Gürçan
2021.10.11	Ozan Türker, Security Analysis of Blockchain Systems using Artificial Intelligence ,

- 2022.08.01 Ege University
Supervisors : Birol Çiloğlugil, [Önder Gürcan](#)
- 2020.10.28 Adel Mansour, **Development of a Web Extension for Multi-Agent eXperimenter**,
2021.09.14 Université Paris 8
Supervisors : [Önder Gürcan](#)
- 2021.03.29 Chaïmaa Benabbou, **Implementation of a simulation model for the Hyperledger blockchain protocol**,
2021.09.28 École Nationale Supérieure d'Électrotechnique, d'Électronique, d'Informatique, d'Hydraulique et des
Télécommunications (ENSEEIH)
Supervisors : Philippe Queinnec, [Önder Gürcan](#)
- 2019.04.01 Nicolas LAGAILLARDI, **Agent-based Modeling of Fairness in Blockchains**,
2019.09.13 École des Mines de Saint-Étienne
Supervisors : Olivier Boissier, [Önder Gürcan](#)
- 2018.11.04 Mohamed Aimen DJARI, **Developing the Tendermint Protocol using an Agent-based Simulator**,
2019.09.30 Sorbonne Université
Supervisors : [Önder Gürcan](#)
- 2017.09.26 Mustafa Safa ÖZDAYI, **Comparing Rewarding Mechanisms of Bitcoin and Fruitchain**,
2018.03.16 École Polytechnique Fédérale de Lausanne (EPFL)
Supervisors : Rachid Gerraoui, [Önder Gürcan](#)