MEHMET HAKLIDIR

Head of Cloud Computing and Big Data Research Lab.

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EXPERIENCE

Head of Cloud Computing and Big Data Research Lab. Chief Researcher

TÜBİTAK BİLGEM Cloud Computing and Big Data Research Lab.(B3LAB)

January 2018 – Ongoing Gebze, KOCAELİ

- Extensive experience in Big Data Architecture Assessment and Design, Big Data Tools and Advanced Analytical Modeling.
- Extensive knowledge and hands-on experiences on Big Data Projects.
- Experience on Artificial Intelligence
- Deep experience on Main Machine Learning Algorithms (Bayesian networks, Clustering, k-NN, Random Forest) and Advanced Machine Learning Techniques (RNN, CNN, LSTM, Reinforcement Learning).
- Experience with Deep learning/Machine learning frameworks (TensorFlow, Keras and PyTorch)
- Experience with Agile Development Methodologies (Scrum)
- Knowledge on Big Data Tools (Hadoop, Hive, Spark, NiFi, Kafka)
- Knowledge on Data Sources (Cloud systems, NoSql Database (MongoDB), SQL Server)
- International and national project co-operation and management experience

Project Manager & Chief Researcher

TUBITAK BILGEM

May 2005 – Ongoing Gebze, KOCAELİ

- Orchestrated the development efforts of a software development team, which includes software engineers, algorithm developers and system engineers.
- Managed design, development, implementation and test activities performed by team or sub-contractor.
- Developed and maintained a vision for the product as a product owner
- Realized planning, management, coordination and financial control activities of the project
- Experience on Large, Complex Software/Simulator Projects.
- Experience on Dynamical Modeling and Simulation
- Experience on Advanced Control Techniques
- Experience on Guidance and Navigation

Assistant Product Manager & Automotive Aftermarket

Bosch Automotive

August 2001 – July 2003 Maslak, Istanbul

- Data analysis and reporting

RD Engineer & Research and Development Department

Bosch RBTR

May 2002 – October 2002 Bursa

- Responsible engineer in a special project

STRENGTHS

Hard-worker Problem Solver Motivator & Leader Researcher

MEMBERSHIPS

- OECD One AI Expert Group, Membership
- The Global Partnership on Artificial Intelligence (GPAI), Membership
- The European AI Alliance, Membership
- Presidency of the Republic of Turkey the Science, Technology and Innovation Policies Council, Membership of Artificial Intelligence Technologies Roadmap Advisory Board, Membership of Cloud Computing and Big Data Technologies Roadmap Advisory Board;
- TAI TUSAŞ, Membership of Technology Advisory Board

SKILLS

Python	●●●●●
C/C++	●●●●○
Java	●●●●○
MATLAB	●●●●●
MS Project	●●●●●

LANGUAGES

Turkish	●●●●●
English	●●●●●
German	●●○○○

EDUCATION

PhD in Control Engineering

(**3.8**/4.00 GPA)

Istanbul Technical University

Sept 2007 –

M.S. in Mechatronics Engineering

(**3.38**/4.00 GPA)

Istanbul Technical University

Sept 2003 – June 2006

B.S. in Mechanical Engineering
B.S. Double Minor in Computer Eng.

(**3.34**/4.00 GPA)

Istanbul University

Sept 1999 – June 2003

SELECTED PUBLICATIONS

Journal Articles

- Akbayrak, I., Ulver, B., Dervisoglu, H., Haklidir, M., Caglayan, S., Kurgan, L., Uversky, V., Hasekioglu, O., Coskuner-Weber, O. "Structures of MERS-CoV Macro Domain in Aqueous Solution with Dynamics: Coupling Replica Exchange Molecular Dynamics and Deep Learning at the Nano Level". Authorea. August 03, 2020. DOI: 10.22541/au.159646074.43956314 (Preprint)
- Haklidir Tut, F.S., Haklidir, M. 2020. "Prediction of geothermal originated boron contamination by deep learning approach: at Western Anatolia Geothermal Systems in Turkey", Environmental Earth Sciences, 79:180
- Haklidir Tut, F.S., Haklidir, M., 2019, "Prediction of Reservoir Temperatures Using Hydrogeochemical Data, Western Anatolia Geothermal Systems (Turkey): A Machine Learning Approach", Natural Resources Research, Springer (SCI)
- Haklidir Tut, F.S., Haklidir, M., 2017, "Fuzzy control of calcium carbonate and silica scales in geothermal systems", Geothermics, v. 70, p. 230-238 (SCI)
- Haklidir, M., Tasdelen, I., 2009, "Modeling, Simulation and Fuzzy Control of an Antropomorphic Robot Arm by Using Dymola", Journal of Intelligent Manufacturing: Volume 20, Issue2, Page 177. (SCI)

International Conference Proceedings

- Haklidir Tut, F.S., Haklidir, M., 2021, "The Reservoir Temperature Prediction Using Hydrogeochemical Indicators By Machine Learning: Western Anatolia (Turkey) Case". World Geothermal Congress 2021, Reykjavik, Iceland.
- Haklidir Tut, F.S., Haklidir, M., 2019, "The Fluid Temperature Prediction with Hydro-geochemical Indicators Using A Deep Learning Model: A Case Study Western Anatolia (Turkey)". 43rd Workshop on Geothermal Reservoir Engineering Stanford University, CA, February 11-13-2019.
- Haklidir, M, Haklidir Tut, F.S., 2015. "Fuzzy Control of Calcium Carbonate and Silica Scales in Geothermal Systems", Proceedings of World Geothermal Congress, Melbourne-Australia, 19-24 April 2015.
- Aldogan, D., Senyurek, L.., Haklidir, M., "Modeling and Simulation of Land Avoidance Behavior Belonging to Tactical Entities within a High Fidelity Simulation Environment", 23rd European Modeling and Simulation Symposium (EMSS 2013), Athens, Greece, September 25-27, 2013.
- Aldogan, D., Haklidir, M., Eroglu, O., Franko, S., Timar, Y., Güven, A.F., Senyurek, L.., Genc, H.M., "Anti-Submarine Warfare Modeling and Simulation", 23rd European Modeling and Simulation Symposium (EMSS 2013), Athens, Greece, September 25-27, 2013.
- Haklidir, M., Franko, S., Guven, A.F., Ulug, U., "Decision Support System for Torpedo Threats (DeSuS)", Ship Survivability Conference 2010, Berlin, Germany, October 2009. – The Winner of Ship Survivability Solution Award 2010.
- Aldogan, D., Haklidir, M., Senyurek, L.., Koksal, S., Eroglu, O., Akdemir, C., Franko, S., Tasdelen, I., Akgun, S., "A General Approach to High Fidelity Modeling, Simulation and Control of Tactical Entities and Implementation in a Commercial Computer Generated Forces Toolkit", 21st European Modeling and Simulation Symposium (EMSS'09), Tenerife - Canary Islands, Spain, September 23-25, 2009.
- Haklidir, M., Guven, A.F., Eroglu, O., Aldogan, D., Tasdelen, I., "High Fidelity Modeling and Simulation of Submarine in a Commercial Computer Generated Forces Toolkit", The Society for Modeling and Simulation International SCS 2009 Summer Computer Simulation Conference (SCSC'09), Istanbul, Turkey, 13-16 July 2009.
- Haklidir, M., Aldogan, D., Tasdelen, I., Franko, S., "Modeling, Simulation and Feedback Linearization Control of Nonlinear Surface Vessels", 6th International Conference on Informatics in Control, Automation and Robotics (ICINCO), Milan, Italy, 2-5 July 2009
- Franko, S., Koksal, S., Haklidir, M., "Modeling, Simulation and Control Of Rotary Wing Platforms In a Computer Generated Forces Toolkit", 7th annual Industrial Simulation Conference (ISC'2009), Loughborough, United Kingdom, June 1-3, 2009.
- Senyurek, L., Koksal, S., Genc, H., M., Aldogan, D., Haklidir, M., "Implementation Of Fuzzy Control For Surface Platforms In A Computer Generated Forces Toolkit", International Conference on Computational Intelligence for Modelling, Control and Automation (CIMCA08), Vienna, Austria, 10-12 December 2008.
- Haklidir, M., Aldogan, D., Tasdelen, I., "High Fidelity Modeling and Simulation of Surface Platforms in a Computer Generated Forces Toolkit", The Society for Modeling and Simulation International SCS 2008 Summer Computer Simulation Conference (SCSC'08), Edinburgh, Scotland, 16-19 June 2008.

AWARDS

2009
TUBITAK Award of Success (upon the achievements in TAKS Project (Gun Firing Simulator)

2009
TUBITAK Scientific Publications Incentive Award

2010
Ship Survivability Solution Award – DeSUS (Decision Support System)

2012
TUBITAK BILGEM AWARDS Best Research Group Award

2014
TUBITAK BILGEM AWARDS Best Product Development Award