

ISMAIL ALIHAN HADIMLIOGLU, PH.D.

TEXAS A&M UNIVERSITY – CORPUS CHRISTI

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Education

2019 **Doctor of Philosophy**, *Texas A&M University - Corpus Christi*, Geospatial Computer Science

Thesis: Flood Simulation and Visualization Framework Using Position-Based Fluids

2013 **Master of Science**, *Texas A&M University - Corpus Christi*, Computer Science

Thesis: Automated musical transitions through rule-based synthesis using musical properties

2010 **Bachelor of Science**, *Istanbul Commerce University*, Computer Engineering

Academic Positions

Istanbul Gedik University

2021 - **Assistant Professor**, Department of Computer Engineering

Kadir Has University

2020 - 2021 **Visiting Lecturer**, Department of Computer Engineering

Texas A&M University – Corpus Christi

2019 - **Adjunct Faculty**, Department of Computing Sciences

2013 – 2019 **Instructor**, Department of Computing Sciences

2012 - 2013 **Research Assistant**, Innovation in Computing Research (iCORE) Labs

Industry Positions

2010 - **Sound Designer**, *Grafiti Soft*, Istanbul, Turkey

2009 - **Summer Intern**, *Grafiti Soft*, Istanbul, Turkey

2008 - **Summer Intern**, *Adeko Software*, Bursa, Turkey

Administration

Texas A&M University - Corpus Christi

2013 – 2019 **Faculty Associate**, Innovation in Computing Research (iCORE) Labs

2013 – 2019 **Committee Member**, Undergraduate Studies Committee

2013 – 2019 **Committee Member**, Intro Sequence Committee

2013 – 2016 **Faculty Representative**, Student Endowment Scholarship Committee

Teaching – Courses Taught

Texas A&M University - Corpus Christi

COSC 1100 – Skills for Computing Professionals I
COSC 1436 – Introduction to Problem Solving II
COSC 2437 – Data Structures
COSC 2325 – Game Design
COSC 3324 – Object-Oriented Programming
COSC 3325 – Game Programming
COSC 3346 – Operating Systems
COSC 3351 – Internet Programming
COSC 3353 – Survey of Programming Languages
COSC 4100 – Skills for Computing Professionals II
COSC 4325 – Advanced Game Programming
COSC 4330 – Introduction to Artificial Intelligence
COSC 4342 – Computer Networks
COSC 4348 – Systems Programming
COSC 4353 – Compiler Construction
COSC 4360 – Theory of Programming Languages

Kadir Has University

CE 241 – Computer Programming II
CE 242 – Data Structures and Algorithms
CE 343 – Object-Oriented Programming Languages
CE 414 – Mobile Application Development
CE 469 – Game Programming

Istanbul Gedik University

BIL 203 – Object-Oriented Programming
BIL 312 – Internet Programming
BIL 405 – Academic English
BILS 417 – Game Programming
EMT 508 – Computer Applications in Engineering Management
FAC 112 – Advanced Programming
MCTS 401 – Object-Oriented Programming
YZM 537 – Fundamentals of Artificial Intelligence
YZM 565 – Artificial Intelligence Applications with Prolog

Publications

Peer Reviewed Journal Articles

- [1] Karim, A. M.; Kaya, H.; Alcan, V.; Sen, B.; Hadimlioglu, I. A. (2022). "New Optimized Deep Learning Application for COVID-19 Detection in Chest X-ray Images." *Symmetry*. **14(5)**: 1003.
- [2] Hadimlioglu, I. A.; King, S. A.; Starek, M. J. (2020). "FloodSim: Flood Simulation and Visualization Framework Using Position-Based Fluids." *ISPRS Int. J. Geo-Inf.* **9(3)**: 163.
- [3] Hadimlioglu, I. A. and King, S. A. (2019). "City Maker: Reconstruction of Cities from OpenStreetMap Data for Environmental Visualization and Simulations" *ISPRS Int. J. Geo-Inf.* **8(7)**: 298.
- [4] Hadimlioglu, I. A. and King, S. A. (2019). "Visualization of Flooding Using Adaptive Spatial Resolution." *ISPRS Int. J. Geo-Inf.* **8(5)**: 204.
- [5] Hadimlioglu, I. A. and King, S. A. (2018). "Automated musical transitions through rule-based synthesis using musical properties." *Entertainment Computing* **28**: 59 - 67.

Professional Memberships

Institute of Electrical and Electronics Engineers (IEEE)
IEEE Geoscience and Remote Sensing Society

Professional Development

Digital Dialogue Series, Texas A&M University - Corpus Christi, 2019
Digital Strategies Symposium, Omni Hotel, Corpus Christi, TX, December 6, 2018
Course Design and Development, Texas A&M University - Corpus Christi, September 2017
Course Delivery and Peer Review, Texas A&M University - Corpus Christi, August 2017
Professional Development in Best Practices for Online Course Design, Texas A&M University - Corpus Christi, May 2016
2013 SACNAS National Conference & Special 40th Anniversary Celebration, San Antonio, TX, October 3 - 6, 2013.
Autodesk Certified 3D Modeling Expertise, Bilisim EA, Istanbul, Turkey, May 2009