

Metehan GUZEL, Ph.D.

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Employment History

- 2022 – **Research Assistant, Ph.D.**
Department of Computer Engineering, College of Engineering and Architecture
Kafkas University
- 2013 – 2022 **Research Assistant**
Department of Computer Engineering, Faculty of Engineering
Gazi University
- 2012 – 2013 **Game Developer**
CéiPrime Entertainment

Education

- 2016 – 2022 **Doctor of Philosophy** in Computer Engineering
Computer Engineering Department, Graduate School of Natural and Applied Sciences
Gazi University
Thesis title: *Improving Quality of Service in IoT.*
- 2013 – 2016 **Master of Science** in Computer Engineering
Computer Engineering Department, Graduate School of Natural and Applied Sciences
Gazi University
Thesis title: *Very High Resolution Camera Hardware and Parallel Visual Database.*
- 2008 – 2012 **Bachelor of Science** in Computer Engineering
Computer Engineering Department, Faculty of Engineering
Gazi University
Thesis title: *Developing Graphics Engine with OPENGL.*

Research Publications

Journal Articles(SCI/SCI-E)

- 1 S. Dilek, K. Irgan, M. Guzel, S. Ozdemir, S. Baydere, and C. Charnsripinyo, “Qos-aware iot networks and protocols: A comprehensive survey,” *International Journal of Communication Systems*, e5156, 2022.
- 2 M. Guzel and S. Ozdemir, “Fair and energy-aware iot service composition under qos constraints,” *The Journal of Supercomputing*, pp. 1–28, 2022.
- 3 Y. Inag, M. Guzel, F. Y. Okay, M. Demirci, and S. Ozdemir, “Priority enabled content based forwarding in fog computing via sdn,” *Turkish Journal of Electrical Engineering and Computer Sciences*, vol. 30, no. 4, pp. 1439–1459, 2022.
- 4 M. Guzel, I. Kok, D. Akay, and S. Ozdemir, “Anfis and deep learning based missing sensor data prediction in iot,” *Concurrency and Computation: Practice and Experience*, vol. 32, no. 2, e5400, 2020.

Conference Proceedings

- 1 M. Guzel, F. Y. Okay, I. Kok, and S. Ozdemir, "Qnsga-ii: A quantum computing-inspired approach to multi-objective optimization," in *2022 International Symposium on Networks, Computers and Communications (ISNCC)*, IEEE, 2022, pp. 1–4.
- 2 H. I. Dede, C. Timurkaan, M. Guzel, and S. Ozdemir, "A novel weighted fp-stream algorithm for iot data streams," in *2020 IEEE International Conference on Big Data (Big Data)*, IEEE, 2020, pp. 4553–4558.
- 3 M. Arslan, M. Guzel, M. Demirci, and S. Ozdemir, "Smote and gaussian noise based sensor data augmentation," in *2019 4th International Conference on Computer Science and Engineering (UBMK)*, IEEE, 2019, pp. 1–5.
- 4 B. Bagiroz, M. Guzel, U. Yavanoglu, and S. Ozdemir, "Qos prediction methods in iot a survey," in *2019 IEEE International Conference on Big Data (Big Data)*, IEEE, 2019, pp. 2128–2133.
- 5 M. Guzel and S. Ozdemir, "A new cep-based air quality prediction framework for fog based iot," in *2019 International Symposium on Networks, Computers and Communications (ISNCC)*, IEEE, 2019, pp. 1–6.
- 6 B. H. Corak, F. Y. Okay, M. Guzel, S. Murat, and S. Ozdemir, "Comparative analysis of iot communication protocols," in *2018 International symposium on networks, computers and communications (ISNCC)*, IEEE, 2018, pp. 1–6.
- 7 C. Uyar, I. Dervisoglu, M. Guzel, and S. Ozdemir, "Multi sensor based indoor positioning," in *2017 International Conference on Computer Science and Engineering (UBMK)*, IEEE, 2017, pp. 104–109.
- 8 M. Guzel and M. Unal, "A survey of insect eye inspired visual sensors," in *2015 9th International Conference on Electrical and Electronics Engineering (ELECO)*, IEEE, 2015, pp. 139–142.

Book Chapters

- 1 I. Kok, M. Guzel, and S. Ozdemir, "Recent trends in air quality prediction: An artificial intelligence perspective," in *Intelligent Environmental Data Monitoring for Pollution Management*, Elsevier, 2021, pp. 195–221.
- 2 F. Y. Okay, I. Kok, M. Guzel, and S. Ozdemir, "Fog computing based complex event processing for internet of things," in *Big Data-Enabled Internet of Things*, IET-Institution of Engineering and Technology, 2019.



Skills

Languages	📖 Turkish , Native Speaker English , Advanced (YDS-A Level) Japanese , Elementary
Coding	📖 Python, MatLab, C, C++, C#, Java
Misc.	📖 Academic research, teaching, training, consultation

Projects

TUBITAK 1001	📖 Project ID: 118E212 Project Title: Fog Computing Based Complex Event Processing and Content Curation for Internet of Things Project Duration: 2018-2021 Role: Bursary
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Committee Work

- 2021  Organizing Committee Member
6th International Conference on Computer Science and Engineering (UBMK)
- 2019  Organizing Committee Member
International Symposium on Networks, Computers and Communications (ISNCC)