



BARIS YAMANSAVASCILAR

Bogazici University
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EDUCATION

Doctor of Philosophy <i>Computer Engineering</i> Bogazici University Advisor: Prof. Cem Ersoy	Sept. 2019 – Present Istanbul, Turkey
Master of Science <i>Computer Engineering</i> Bogazici University Thesis: Fault Tolerance in the Data Plane of Software-Defined Networks Advisor: Prof. Cem Ersoy	Sept. 2016 – May 2019 Istanbul, Turkey
Bachelor of Science <i>Computer Engineering</i> Yildiz Technical University Thesis: Network Traffic Classification Using Machine Learning Techniques Advisor: Assist. Prof. Mehmet Amac Guvensan	Sept. 2010 – May 2015 Istanbul, Turkey

RESEARCH INTERESTS

Edge Computing, Mobile Cloud Systems
Deep Reinforcement Learning, Machine Learning
Software Defined Networks, NFV, 5G

RESEARCH EXPERIENCE

Bogazici University NETLAB <ul style="list-style-type: none">Studying on Federated Learning solutions for Edge ComputingStudying for efficient offloading approaches in Edge Computing using deep learningStudied on enhancing QoS and QoE for fault tolerance problem in SDN	Sept. 2016 – Present Istanbul, Turkey
Yildiz Technical University Intelligent Systems Lab <ul style="list-style-type: none">Network intrusion detection problem was investigatedNetwork traffic classification problem was studied using machine learningStudied on human activity recognition using smartphones	Sept. 2013 – July 2016 Istanbul, Turkey

EMPLOYMENT

Research Assistant Bogazici University	Sept. 2016 – Present Istanbul, Turkey
Researcher Yildiz Technical University	July 2015 – July 2016 Istanbul, Turkey
Intern Microsoft	Aug. 2014 Istanbul, Turkey
Intern Ziraat Technology	June 2014 – July 2014 Istanbul, Turkey
Intern Turk Telekom	July 2013 – Aug. 2013 Istanbul, Turkey

PUBLICATIONS

B. Yamansavascilar, A. C. Baktir, A. Ozgovde, and C. Ersoy, "Fault tolerance in SDN Data Plane Considering Network and Application Based Metrics", *Journal of Network and Computer Applications*, vol. 170, pp. 102780, 2020.

M. S. Kuran, A. Dilmac, O. Topal, **B. Yamansavascilar**, S. Avallone, T. Tugcu, "Throughput-maximizing OFDMA Scheduler for IEEE 802.11ax Networks", *IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC)*, pp. 1-7, 2020, Virtual Conference.

B. Yamansavascilar, A. C. Baktir, A. Ozgovde, and C. Ersoy, "Enhancing QoE for Video Streaming Considering Congestion: A Fault Tolerance Approach", *IEEE INFOCOM 2019 - IEEE Conference on Computer Communications Workshops*, pp. 258-263, 2019, Paris, France.

B. Yamansavascilar, A. C. Baktir, A. Ozgovde, and C. Ersoy, "Fault Tolerant Data Plane Using SDN", *The 25th Signal Processing and Communications Applications Conference (SIU)*, 2017, Antalya, Turkey.

B. Yamansavascilar, M. A. Guvensan, A. G. Yavuz, and M. E. Karsligil, "Application Identification via Network Traffic Classification", *The International Conference on Computing, Networking and Communications (ICNC)*, pp. 843-848, 2017, San Francisco, USA.

B. Yamansavascilar, M. A. Guvensan, "Activity Recognition on Smartphones: Efficient Sampling Rates and Window Sizes", *The International Workshop on the Impact of Human Mobility in Pervasive Systems and Applications (PerMoby)*, pp. 1-6, 2016, Sydney, Australia.

PROJECTS AND RESEARCH

Deep Learning Systems for Edge Computing Bogazici University	Sept. 2019 – Present
OFDMA Scheduler Development for IEEE 802.11ax Bogazici University, funded by AirTies	March. 2019 – March. 2020
Fault Tolerance in the Data Plane of Software-Defined Networks Bogazici University, MSc Thesis	Jan. 2017 – May 2019
Service Management on Multitier IT Architecture Bogazici University	Jan. 2017 – Jan. 2019
Distributed Data Processing and Applications for Mobile Edge Computing Bogazici University, funded by Netas	Aug. 2017 – June 2018
Making Art More Accessible Bogazici University, funded by European Union	April 2017 – July 2017
Advanced Threat Detection Using Machine Learning Techniques Yildiz Technical University, funded by Crypttech	July 2015 – July 2016
Network Traffic Classification Using Machine Learning Techniques Yildiz Technical University, BSc Thesis	Sept. 2014 – June 2015
Activity Recognition on Smartphones Yildiz Technical University, BSc Junior Project	Sept. 2013 – June 2014

SKILLS

Languages: Turkish (Native), English (Fluent), French (B1)

Programming: C, C++, Java, Python, Swift, MATLAB, HTML/CSS, Javascript, PHP, SQL

Framework/Library: Keras, TensorFlow, Django, Floodlight SDN Controller

Simulator/Emulator: NS-3, Mininet, CloudSim, EdgeCloudSim

Tool: Wireshark, Weka

Document Creation: Microsoft Office Suite, Keynote, LaTeX

HONORS AND AWARDS

Honor Student Yildiz Technical University	2015
Third Place in Chess Tournament Inter High School Pertevniyal Chess Tournament in Istanbul	Spring 2008
Winner of Chess Tournament Inter High School Chess Tournament in Kagithane District	Spring 2007

REFERENCES

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