

Hamada Rizk

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EDUCATION

Ph.D., Computer Science and Engineering (Last Year)

Egypt-Japan University of Science and Technology (E-JUST), Alexandria, Egypt

M.Sc., Computer Engineering (2016)

Tanta University, Egypt

B.Sc., Computer and Automatic Control Engineering (2010)

Tanta University, Egypt

WORK EXPERIENCE

Mobile Computing Lab, Osaka University, Japan Researcher	May 2019 – to now
Wireless Research Center (Alexandria University), Egypt Senior Researcher	Feb 2018 – May 2019
Wireless Research Center (E-JUST), Egypt Research Assistant	Sep 2017 – Jan 2018
iNNOTECH Company, Egypt R & D Executive	July 2015 – Jan 2017
Faculty of Engineering, Tanta University, Egypt Lecturer Assistant	Dec 2016 – Oct 2017
Faculty of Engineering, Tanta University, Egypt Demonstrator	May 2011 – Sep 2016
IT Unit, Higher Ministry of Education, Egypt Chief Technology Officer	Oct 2012 – Oct 2015
AGIAL Academy, Egypt Lecturer	June 2013 – Oct 2013
DreamNet Company, Egypt branch Software Engineer	Sep 2011 – June 2012
HI-Q Academy, Egypt branch Lecturer	May 2009 – Dec 2011

PUBLICATIONS

1. OmniCells: Cross-Device Cellular-based Indoor Location Tracking Using Deep Neural Networks. Hamada Rizk, Moustafa Abbas, Moustafa Youssef. The 17th IEEE International Conference on Pervasive Computing and Communications. 2020. (Austin, USA). **Best paper runner up (Rank A*)**.

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2. MonoDCell: Indoor Localization based on Limited Cellular Information using Deep Learning. Hamada Rizk and Moustafa Youssef. The 27th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems. 2019. (Chicago, USA). **(Rank A)**.
3. SoloCell: Efficient Indoor Localization Based on Limited Cell Network Information And Minimal Fingerprinting. The 27th ACM SIGSPATIAL International Conference on Advances in Geographic Information Systems. 2019. (Chicago, USA). **(Rank A)**.
4. Device-Invariant Cellular-Based Indoor Localization System Using Deep Learning. Hamada Rizk. The ACM MobiSys Conference on Rising Stars Forum, 2019. (Seoul, South Korea). **(Rank A)**.
5. WiDeep: WiFi-based Accurate and Robust Indoor Localization System using Deep Learning. Moustafa Abbas, Moustafa Elhamshary, Hamada Rizk, Marwan Torki, and Moustafa Youssef. IEEE International Conference on Pervasive Computing and Communications (perCom) 2019. (Kyoto, Japan). **(Rank A*)**.
6. Effectiveness of Data Augmentation in Cellular-based Localization Using Deep Learning. Hamada Rizk, Ahmed Shoukry, and Moustafa Youssef. IEEE Wireless Communications and Networking Conference 2019. (Marrakech, Morocco). **(Rank B)**.
7. Increasing Coverage of Indoor Localization Systems for EEE112 Support. Hamada Rizk and Moustafa Youssef. Middle East – North African (MENA) Regional ITS Conference 2019. (Aswan, Egypt).
8. CellinDeep: Robust and Accurate Cellular-based Indoor Localization via Deep Learning. Hamada Rizk, Marwan Torki, and Moustafa Youssef. IEEE Sensors Journal 2018. **(Q1 Journal)**
9. A Hybrid Outlier Detection Algorithm Based on Partitioning Clustering and Density Measures. Hamada Rizk, Sherin Elgokhy, and A. Sarhan. IEEE International Conference on Computer Engineering and Systems (ICCES) 2015. (Cairo, Egypt).

TEACHING COURSES

1. Information System Design. School of Business Information Systems, Faculty of Commerce, Tanta University. 2017 and 2016.
2. Data Mining and Knowledge Discovery. Faculty of Engineering, Tanta University. 2017, 2016 and 2015.
3. Advanced Machine Learning. Faculty of Engineering, Tanta University. 2017 and 2014.
4. Computer Vision and Pattern Recognition. Faculty of Engineering, Tanta University. 2016 and 2015.
5. E-Commerce System Design. Faculty of Engineering, Tanta University. 2015, 2014 and 2013.
6. Advanced Programming. Faculty of Engineering, Tanta University. 2013, 2012 and 2011.

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AWARDS AND HONORS

1. Received Google gift for excellent researcher in Africa. 2020.
2. Best paper runner up in the 17th IEEE International Conference on Pervasive Computing and Communications. 2020. (Austin, USA).
3. Won the silver medal in the 4th Student Research Competition of the 27th ACM International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL) 2019.
4. Received Google gift for excellent researcher in Africa. 2019.
5. Selected as one of ten Rising Stars in mobile systems and applications by the International Conference on Mobile Systems, Applications, and Services (MOBISYS). 2019.
6. Received Romberg award as one of the top twenty promising young researchers in computer science from the HLF foundation. 2019.
7. Received the Japanese Ambassador award for my contribution. 2019.
8. Selected as Outstanding Young Researcher from the 7th Heidelberg Laureate Forum in Germany. 2019.
9. Received the Best Student award from Egypt-Japan University of Science and Technology (E-JUST) for high-ranked publications. 2019.
10. Emerging as first place in the international BioDialog Hackathon on Biodiversity Informatics Sponsored by Friedrich-Schiller University Jena, Germany and held at Assiut University, Egypt. Nov. 2018.
11. Led a team in the international ACM programming competition (ICPC) and Emerging as the 19th place. 2018.

PATENTS

Applied patent in the Egyptian Academy of Scientific Research and Technology titled "Robust and Accurate Cellular-based Indoor Localization Using Deep Learning". patent ID: 1531/2018, Date of filing: 27/9/2018, Time of filing: 10:24 AM.

PROFESSIONAL ACTIVITIES

- Session Chair of the International Workshop on Pervasive Computing for Vehicular Systems Co-located with IEEE PerCom 2020.
- Organizer of English science forum at Osaka University, Japan.
- Selected as a member of the technical program committee of the Rising Stars forum of ACM MobiSys conference 2019.

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- Served as a technical reviewer for several Q1 Journals including IEEE Transactions on Mobile Computing (impact factor 4.47), the ACM Transactions on Spatial Algorithms and Systems (TSAS) and the IEEE Sensors Journal (impact factor 3.076). 2018 & 2019.
- Student volunteer at the 27th ACM International Conference on Advances in Geographic Information Systems (ACM SIGSPATIAL). 2019.
- Student volunteer at the 17th ACM International Conference on Mobile Systems, Applications, and Services (MobiSys). 2019.
- Student volunteer at the IEEE Wireless Communications and Networking Conference (WCNC).

LANGUAGES

- Arabic (Mother Language).
- English (ILETS 6.5).
- Japanese (A1 Level).
- French (Fair).