Curriculum Vitae

Dr Mohammed S Bahbahani

College of Technological Studies

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Education

Phd Electrical Engineering – University of Manchester (UK) – 2018

MSc Communication Engineering – University of Manchester (UK) – 2006

BEng Computing and Communication Systems Engineering – University of Manchester (UK) – 2005.

Academic experience

2018-Present: Assistant Professor in Electronic Engineering Dept. College of Technological Studies (PAAET).

2010-2018: Teaching Assisant in Electronic Engineering Dept. College of Technological Studies (PAAET).

2008-2010: Scientific Assistant – Electrical Engineering Dept. Kuwait University.

Non-academic experience

2007-2008: Network Engineer – Ministrity of Electricity and Water (Kuwait).

Certifications

Sun Certified Java Programmer

Current membership

IEEE Member

ComSoc Member

Honors and awards

none

Service activities

none

Publications and presentations

M. S. Bahbahani, E. Alsusa and A. Hammadi, "A Directional TDMA Protocol for High Throughput URLLC in mmWave Vehicular Networks," in *IEEE Transactions on Vehicular Technology*, 2022, doi: 10.1109/TVT.2022.3219771.

M. S. Bahbahani and E. Alsusa, "A Directional Clustering Protocol for Millimeter Wave Vehicular Ad hoc Networks," *2020 IEEE 91st Vehicular Technology Conference (VTC2020-Spring)*, Antwerp, Belgium, 2020, pp. 1-6, doi: 10.1109/VTC2020-Spring48590.2020.9128467.

M. W. Baidas, M. S. Bahbahani, E. Alsusa, K. A. Hamdi and Z. Ding, "D2D Group Association and Channel Assignment in Uplink Multi-Cell NOMA Networks," *2019 IEEE Wireless Communications and Networking Conference (WCNC)*, Marrakesh, Morocco, 2019, pp. 1-8, doi: 10.1109/WCNC.2019.8885822.

M. W. Baidas, M. S. Bahbahani, E. Alsusa, K. A. Hamdi and Z. Ding, "Joint D2D Group Association and Channel Assignment in Uplink Multi-Cell NOMA Networks: A Matching-Theoretic Approach," in *IEEE Transactions on Communications*, vol. 67, no. 12, pp. 8771-8785, Dec. 2019, doi: 10.1109/TCOMM.2019.2944142.

M. S. Bahbahani and E. Alsusa, “CrowdConnect: A Quality of Experience Enhancement Solution for Dense Stadium Networks ," in *IEEE Global Communication Conference (GLOBECOM)*, Abu-Dhabi, UAE, Dec. 2018.

M. S. Bahbahani and E. Alsusa, "A Cooperative Clustering Protocol With Duty Cycling for Energy Harvesting Enabled Wireless Sensor Networks," in *IEEE Transactions on Wireless Communications*, vol. 17, no. 1, pp. 101-111, Jan. 2018.

M. S. Bahbahani and E. Alsusa, "DC-LEACH: A duty-cycle based clustering protocol for energy harvesting WSNs," *2017 13th International Wireless Communications and Mobile Computing Conference (IWCMC)*, Valencia, Spain, 2017, pp. 974-979.

M. S. Bahbahani, M. W. Baidas and E. Alsusa, "Distributed multi-relay selection via political coalition formation in cooperative wireless networks," *2016 IEEE Wireless Communications and Networking Conference*, Doha, Qatar, 2016, pp. 1-7.

M. S. Bahbahani and E. Alsusa, "Joint cost-sharing and multi-relay selection for two-way relay networks using a pricing game," *2016 IEEE Wireless Communications and Networking Conference*, Doha, Qatar, 2016, pp. 1-6.

M. S. Bahbahani and E. Alsusa, "Relay selection for energy harvesting relay networks using a repeated game," *2016 IEEE Wireless Communications and Networking Conference*, Doha, Qatar, 2016, pp. 1-6.

M. S. Bahbahani, M. W. Baidas and E. Alsusa, "A Distributed Political Coalition Formation Framework for Multi-Relay Selection in Cooperative Wireless Networks," in *IEEE Transactions on Wireless Communications*, vol. 14, no. 12, pp. 6869-6882, Dec. 2015.

M. W. Baidas and M. S. Bahbahani, "A game-theoretic approach to relay selection in cooperative wireless networks," *2014 International Wireless Communications and Mobile Computing*

Conference (IWCMC), Nicosia, Cyprus, 2014, pp. 375-380.

Professional development activities

none