Dr. Mushtaq Talib Abidzaid Al-Sharify

Other names: Al-Shuraifi Mushtaq Talib Abdzaid
Place of birth: Birmingham, England, United Kingdom.
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Assistant Professor, Radiophysics, Electronics, and Computer Systems Faculty, Taras Shevchenko National University of Kyiv, Kyiv, Ukraine.

Editor: Journal of Engineering and sustainability development, Iraq
http://jeasd.uomustansiriyah.edu.iq/index.php/jeasd/about/editorialTeam

Editor: Tikrit Journal of Engineering Sciences
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https://www.webofscience.com/wos/author/record/AAP-6331-2020
https://www.researchgate.net/profile/Mushtaq-Al-Sharify
https://scholar.google.co.uk/citations?hl=ar&user=CHuhEvwAAAAJ

Professional Profile:

Researcher in modern science and knowledge, dedication, and enthusiasm with more than 13 years of experience in various aspects of engineering Telecommunications, and there is excellent potential to contribute to the goal of the research project and confident with the ability to work in a team. , in addition to supervising Ph.D., master's, and undergraduate students.

Key Skills and Areas of Expertise:

- Experience in various aspects of Telecommunications engineering;
- Strong research in a mobile generation;
- Mathematical skills;
- Good experience in Matlab;
- Strong research in the cellular system and system level simulation;
- Multi-publications in journals and conferences;
- Strong written and verbal communication skills;
- Working as a University lab lecturer in 2008;
- Extraordinary ability in delivering lectures in several subjects;
- Maintenance of electronic devices;
- Maintenance and installation of computers and networks.

Objective

Currently searching for a suitable position or research fellow as a university lecturer.

Education and Qualifications:

2016: Taras Shevchenko National University of Kyiv - Doctorate of Philosophy (Ph.D.) in Radio engineering devises and Telecommunication means; Dissertation for Doctoral degree was "Methods and models of information channels throughput increasing in cellular networks based on LTE technology";
2012: Kharkiv National University of Radio Electronics –MSc in Telecommunication System and Network; Dissertation for master's degree was "Investigation of methods increasing communication quality in LTE system";
2008: AL-Rafidain University College – BSc in Computer Communication Engineering;
2004: Baccalaureate of Secondary School, Science branch.

Academic Work Experience:

2018 – till now – Al-Farahidi University (Iraq, Baghdad) – lecturer

- lecturer in the Communication Technical Engineering Department
  - "Antenna" for III year students (Communication Technical Engineering"

- "Measurements" for I year students (Communication Technical Engineering"

2016 – till now – Taras Shevchenko National University of Kyiv (Ukraine, Kyiv) – Assistant Professor

- Assistant in the Faculty of Radiophysics, Electronics, and Computer Systems
  - "Telecommunication networks" for II and III year students (172 "Telecommunications and radio engineering" "bachelor", field of study "Telecommunications and radio engineering");
  - - "Mathematical modelling of systems and processes" for students of the first year of the "master's degree", field of study "172 Telecommunications and radio engineering";
  - – "Practice of telecommunications networks" for third-year students (172 "Telecommunications and radio engineering" "bachelor", field of study "Telecommunications and radio engineering");
    Also conducts laboratory and practical classes.
  - "Fundamentals of the theory of information transmission" of the 3rd year (172 "Telecommunications and radio engineering" "bachelor";
  - "Theory of information transmission" for students of the first year of the "master's degree", field of study "172 Telecommunications and radio engineering";
  - "Optimization of the design of radio-electronic devices" for students of the 2nd year of the "master's degree", "field of study "172 Telecommunications and radio engineering";
  - Assistant Professor M. Al-Sharify is the academic supervisor of the course projects of fourth-year students "bachelor" and supervisor of master's theses in specialty "Telecommunications and radio engineering".

2012 - 2015 – Taras Shevchenko National University of Kyiv – Exam Invigilator

- Invigilating exams in many departments in the Taras Shevchenko National University of Kyiv.
- Control regular patrols of the exam room and help assist students throughout the exam time. And monitor the calculator's uses, which are generally, should be silent and non-programmable during the exam.

2013 – 2015 - Taras Shevchenko National University of Kyiv – Lab Assistant Lecturer

- Demonstrating modelling concepts and tools (CISCO-CCNA) for third-year year Engineers.
- Laboratorial work in Networks and devices of transmission data.

2008 – 2010: AL-Rafidain University College, Lab. Department – Lab Assistant

- Provide lectures laboratory for different engineering students "Computer Communications, mechanics, and technical Computer." In electricity Labs
- Support educational courses to engineering students in Engineering Computer Communications, second-year undergraduate in computer networks.
- Laboratory units of measurement and how to improve for technical Computer students second-year undergraduate.
- Electronics laboratory for the second and third-year undergraduate students for Telecommunications Engineering.
- Microwave Laboratory for Communication Engineering Students four-year undergraduate.

Publications:

1. **Throughput physical layer analysis of LTE** / P. Komada, H. Al-Zayadi, S. Olszewski, M. Reznikov, M. T. Al-Shuraifi // ELEKTRONIKA : KONSTRUKCJE, TECHNOLOGIE, ZASTOSOWANIA – 2013. – № 8. – pp. 63-66.
2. **Improving throughput network using MIMO-beamforming** / M.T. Al-Shurayfi, H.H. Al-Zayadi, M. Reznikov, Yu. Khlaponin // Information Security. Ukrainian Scientific Journal of Information Security. – 2014. – Vol. 20, № 1. – pp. 12-16.
3. **FRAT-OFDM vs. FFT-OFDM Systems in Fading AWGN Channel** / M. T. Al-Shurayfi, M. Reznikov, A. I. Al-Anssari // Electronics and Communication – 2014. – Vol. 19, № 2(79). – pp. 53-58.
4. **2D DWT-OFDM vs. FFT-OFDM Systems in Fading AWGN Channels** / M. T. Al-Shurayfi, A. I. Al-Anssari, N. Qasim // Proceedings of the universities. Radioelectronics – 2015. – Vol.58, № 5. – pp. 228-233.
5. Al-Shuraifi Mushtaq. **Effected Angular Spread on Beamforming and Transmit Diversity for Indoor and Outdoor** / Mushtaq Al-Shuraifi, Haider Al-Zayadi, I.D. Orlevych / Herald of Lviv Polytechnic National University, Series of Radio Electronics and Telecommunication. – № 796. – 2014. – pp. 22-28.
6. Al-Zayadi Haider, Al-Shuraifi Mushtaq, Al-Sharify Talib. **SNR Effect on CQI Applying Multiple Antennas in Closed Loop Spatial Multiplexing Mode in LTE Technologies** / Haider Al-Zayadi, Mushtaq Al-Shuraifi, Talib Al-Sharify // Scientific proceeding of Ukrainian research institute of communication. – 2014. – № 6(34). pp. 92-97. (Google Scholar).
7. **Mobility effected on Channel Estimation Using Different Modulation in LTE** [Electronic Resource] / H. A. Al-Zayadi, M. M. Klymash, O. A. Lavriv, M. Al-Shuraifi // Problems of Telecommunications. – 2014. – № 2 (14). – pp. 30 - 41. – Access link: http://pt.journal.kh.ua/2014/2/1/142_lavriv_lte.pdf.
8. **Method of prior throughput allocation of LTE technology downlink** // Al-Shuraifi Mushtaq Talib / Science and technology of Air Forces of Armed Forces of Ukraine – 2015 – №2(19) - pp. 105-110.
9. **How to improve Bit Error Rate and throughput by Resource Management and affect it on Quality of Service and Modulation and Coding Scheme in Resource Block for LTE** / M. Al-Shuraifi, H. Al-Zayadi, M. Reznikov, // Electronics and Communication. – № 3(80). – 2014. – pp. 112-118.
10. **Effect type of modulation on Peak-to-Average Power Ratio (PAPR) in 3Gpp for OFDMA and SC-FDMA** / M. Al-Shuraifi, H. Al-Zayadi // Modern Problems of Radio Engineering, Telecommunications and Computer Science: proceedings of the XII International Conference (TCSET'2014), Slavske, Ukraine. February 25 – March 1, 2014. – Lviv, 2014. – pp. 478-480.

11. **Improving QoS in MAX C/I Scheduling Using Resource Allocation Type 1 of LTE** / M. Al-Shuraifi, H. Al-Zayadi, O. Lavriv, M. Klymash // The Experience of Designing and Application of CAD Systems in Microelectronics : proceedings of the XIIIth International Conference (CADSM'2015), Polyana-Svalyava (Zakarpattya), Ukraine. 24-27 February, 2015. – Lviv, 2015. – pp. 478-480.
12. **Adaptive Equalizers in LTE Technology** / M. Al-Shuraifi, M. Reznikov, Z. Talib, T. Al-Sharify // proceedings of the Conference BEAR, University of Birmingham. 24 June 2013. – Birmingham, UK, 2013. – pp. 112-118.
13. **Transmitter in MIMO beamforming** / M. Al-Shuraifi, M. I. Reznikov, Y. A. Kyiashko, M. A. Shapran // Proceedings of IX International Conference «Electronics and Applied Physics»: Kyiv, Ukraine. 23-26 of October 2013. K.: Taras Shevchenko Kyiv National University, Faculty of Radio Physics, 2013. – pp. 160-161.
14. **Mathematical models of cross-layered routing in 802.16 mesh networks** / M. T. Al-Shuraifi, E. M. Al-Azzawi // Supervisor D.Sc., Prof. O. Yevseyeva // Radioelectronics and youth in XXI century: 18-th International Youth Forum, Kharkiv, 14–16 of April 2014: conf. abstract. – Kharkiv National University of Radio electronics, 2014. – pp. 23–24.
15. **Effective type of modulation for LTE throughput inecrease** / M. Al-Shuraifi, H. AL-Zayadi, M. Klymash // Perspective technologies and methods in MEMS design (MEMSTECH'2014), Polyana-Svalyava (Zakarpattya), Ukraine. 22-24 June 2014. – Lviv, 2014. – pp. 65-66.
16. **Increase throughput by expectation Channel Quality Indicator (CQI)** / H. Al-Zayadi, O. Lavriv, M. Klymash, M. Al-Shuraifi // Problems of Infocommunications Science and Technology: proceedings of the First International Scientific-Practical Conference, Kharkiv, Ukraine, 14-17 October 2014. Kharkiv, 2014. – pp. 120-121.
17. **Increase bandwidth in LTE-A networks** / M. Al-Shuraifi, V. Semenyuk, D. Petryk, V. Korzh, V. Panin // Proceedings of IX International Conference «Electronics and Applied Physics»: Kyiv, Ukraine. 22-25 of October 2014. K.: Taras Shevchenko Kyiv National University, Faculty of Radio Physics, Electronics and Computer Systems, 2014 – pp. 169-170.
18. **Performance in channel estimation for LTE** / M. Al-Shuraifi // Proceedings of IX International Conference «Electronics and Applied Physics»: Kyiv, Ukraine. 22-25 of October 2014. K.: Taras Shevchenko Kyiv National University, Faculty of Radio Physics, Electronics and Computer Systems, 2014 – pp. 171-172.
19. **Effected VOIP Service By Means Subjective Method Using MOS in LTE Network** / H. Al-Zayadi, M. Al-Shuraifi, T. Al-Sharify, Z. Al-Sharify // BEAR PGR : 5th Annual Conference, Birmingham, UK, 15 December, 2014. – University of Birmingham, 2014. – P. 46-57.
20. **PRIORITY ALLOCATION METHOD OF THE BANDWIDTH DOWNLINK OF LTE TECHNOLOGY** / Haider Al-Zayadi, Mushtaq Talib Al-Sharify, Yuriy Khlaponin, Talib AL-Sharify. // Information and Communication Systems and Networks. Vol. 26 No. 2 (2015)
21. **PROPORTIONAL ALLOCATION METHOD OF THE REQUIRED BANDWIDTH CAPACITY FOR THE USER STATIONS USING THE LTE TECHNOLOGY** / AL-ZAYADI HAIDER, AL-SHARIFY MUSHTAQ TALIB, AL-SHARIFY TALIB, YURIY KHLAPONIN, MIKOLAJ KARPINSKI. // TECHNICAL TRANSACTIONS ELECTRICAL ENGINEERING. 2-E/2016. DOI: 10.4467/2353737XCT.16.258.6057
22. **Calculation of Reliability Indicators of Unmanned Aerial Vehicle Class " μ " taking into account Operating Conditions at the Design Stage** / S. Lienkov, G. Zhyrov, O. Sieliukov, I. Tolok, A. -S. M. Talib and I. Pampukha // 2019 IEEE 5th International Conference Actual Problems of Unmanned Aerial Vehicles Developments (APUAVD), 2019, pp. 52-56, doi: 10.1109/APUAVD47061.2019.8943876.
23. **A Technical Overview and Comparison between PET and MRI Scanning** / NOOR T. AL-SHARIFY, ZAINAB T. AL-SHARIFY, TALIB A. AL-SHARIFY, MUSHTAQ T. AL-SHARIFY, ASHWAQ T. AL-SHARIFY // 2020. Systematic Reviews in Pharmacy, 11 (1), 34-41. doi:10.5530/srp.2020.1.06
24. **Feasibility Study of Installing Rooftop PV System with Net-Metering Scheme in Iraq** / Qasim Kadhim Hunehen, Ruqayah Ismael Mohsin, Al-Sharify Mushtaq Talib // Journal of Power and Energy Engineering > Vol.8 No.10, October 2020. DOI: 10.4236/jpee.2020.810005
25. **Development of an enhanced scatter search algorithm using discrete chaotic Arnold's cat map** / Rafash, A. G. H., Saeed, E. M. H., & Talib, A.-S. M. // (2021).. Eastern-European Journal of Enterprise Technologies, 6(4 (114), 15–20. https://doi.org/10.15587/1729-4061.2021.234915
26. **IoT and E-learning with the Impact of COVID 19 Pandemic Lockdown on the Undergraduate University Student Blood Pressure Levels** / Talib A. Al-Sharify, Zinah A. Alshrefy, Hussein Ali Hussein, Zainab T. Al-Sharify, Helen Onyeaka, Mushtaq T. Al-Sharify, and Soumya Ghosh // TTSIIT 2022 Emerging Technology Trends on the Smart Industry and the Internet of Things 2022. http://ceur-ws.org/Vol-3149/
27. **IMPROVING THE THROUGHPUT OF INDOOR 5G NETWORKS USING MASSIVE MIMO TECHNOLOGY** / Danuk D. A., Mushtaq T. Al-Sharify // XXII International Young Scientists Conference on Applied Physics. Kyiv, Ukraine
28. **THEORETICAL PHYSICS TO IMPROVE RADIO FREQUENCY IN 5 GENERATION** / Talib Al-Sharify, Ali Ihsan Alanssari, Mushtaq Talib Al-Sharify and Itimad Raheem Ali. // IOP Conference Series: Materials Science and Engineering, Volume 870, The International Conference on Engineering and Advanced Technology (ICEAT 2020) 11-12 February 2020, Assiut, Egypt. https://iopscience.iop.org/article/10.1088/1757-899X/870/1/012021
29. **Optimize Cellular Network Performance Using Phased Arrays** / Bashar S. Bashar, Marwa M. Ismail and Al-Sharify Mushtaq Talib // IOP Conference Series: Materials Science and Engineering, Volume 870, The International Conference on Engineering and Advanced Technology (ICEAT 2020) 11-12 February 2020, Assiut, Egypt. **DOI: 10.1088/1757-899X/870/1/012128.**
30. **TOOL FOR REPRESENTATION OF THE APPROACH OF NEAR-EARTH OBJECTS TO THE EARTH** / D. A Danuk, Al-Sharify Mushtaq Talib // XVII INTERNATIONAL CONFERENCE "ELECTRONICS AND APPLIED PHYSICS" October, 19-23, 2021, Kyiv, Ukraine. http://aphys.univ.kiev.ua/index.php/aphys2022/aphys2021.
31. Sawsan Al-Mashhadani, Zainab Al-Sharify, Nagam Kariem et al. The effect of Covid-19 pandemic lockdown on air pollutants levels within the Baghdad International Airport area in Iraq, 08 November 2022, **PREPRINT** (Version 1)

available at Research Square [https://doi.org/10.21203/rs.3.rs-2168517/v1]

32. B. S. Bashar, A. I. Al-Anssari, M. M. Ismail, T. A. Al-Sharify, M. T. Al-Sharify, V. V. Pyliavskyi; Physical properties of test signals to enhance telecommunication paths. AIP Conf. Proc. 17 November 2022; 2660 (1): 020011. https://doi.org/10.1063/5.0107683
33. Safaa S. Mahdi, Sura M. Ahmed, Hiba Forat, Mushtaq T. Al-Sharify, S. I. Al-Azzawi, Lujain N. Yousif, Noor T. Al-Sharify; New design of temperature sensor-based breathing monitoring system. AIP Conf. Proc. 17 November 2022; 2660 (1): 020142. https://doi.org/10.1063/5.0109347
34. Noor A. M. Aalhashem, Zainab Abdulrazak Naser, Talib A. Al-Sharify, Zainab T. Al-Sharify, Mustaq T. Al-sharify, Rwayda Kh.S. Al-Hamd, Helen Onyeaka; Environmental impact of using geothermal clean energy (heating and cooling systems) in economic sustainable modern buildings architecture design in Iraq: A review. AIP Conf. Proc. 17 November 2022; 2660 (1): 020119. https://doi.org/10.1063/5.0109553
35. Khalid , A. A., Abdulla , F. A., & Al-Sharify, M. (2023). Experimental Investigation on the Fatigue Behavior on Honeycomb Sandwich Composite Panels. Tikrit Journal of Engineering Sciences, 30(2), 122–129. https://doi.org/10.25130/tjes.30.2.13
36. Mushtaq Talib Al-Sharify, Ruslan Smolianinov, Talib A. Al-Sharify; IOMT application designed for patients health monitoring. AIP Conf. Proc. 14 July 2023; 2787 (1): 090020. https://doi.org/10.1063/5.0149089
37. Mushtaq Talib Al-Sharify, Vadym Kostenko, Yurii Khlaponin; Improved cryptocurrency market by using monte Carlo method. AIP Conf. Proc. 14 July 2023; 2787 (1): 050028. https://doi.org/10.1063/5.0149088
38. Bashar S. Bashar, Z. A. Rhazali, Halina Misran, Marwa M. Ismail, Mushtaq Talib Al-Sharify; Gain enhancement for patch antenna loading with slotted parasite antenna based on metasurface super substrate. AIP Conf. Proc. 14 July 2023; 2787 (1): 090032. https://doi.org/10.1063/5.0149215
39. Talib A. Al-Sharify, Zainab T. Al-Sharify, Noor T. Al-Sharify, Mushtaq T. Al-Sharify, Noor A. M. Aalhashem, Soumya Ghosh, Helen Onyeaka, Shabnam Ahmadi; Flow of nanofluids and its theoretical physics. AIP Conf. Proc. 14 July 2023; 2787 (1): 090012. https://doi.org/10.1063/5.0150144

Conferences Attended:

Proceedings of the XII International Conference (TCSET'2014), Slavske, Ukraine

- "Effect type of modulation on Peak-to-Average Power Ratio (PAPR) in 3Gpp for OFDMA and SC-FDMA"

Proceedings of the XIIIth International Conference (CADSM'2015), Polyana-Svalyava (Zakarpattya), Ukraine

- "Improving QoS in MAX C/I Scheduling Using Resource Allocation Type 1 of LTE"

The 4th Birmingham Environment for Academic Research (BEAR) Postgraduate Conference, 2013, Birmingham, UK

- "Adaptive Equalizers In LTE Technology"

Proceedings of IX International Conference «Electronics and Applied Physics»: 23-26 of October 2013.Kyiv, Ukraine.

- "Transmitter in MIMO beamforming"

Radio electronics and youth in XXI century: 18-th International Youth Forum, 14–16 of April 2014 Kharkov, Ukraine.

- " Mathematical models of cross-layered routing in 802.16 mesh networks "

Perspective technologies and methods in MEMS design (MEMSTECH'2014). Polyana-Svalyava (Zakarpattya), Ukraine.

- "Effective type of modulation for LTE throughput increase"

Proceedings of the First International Scientific-Practical Conference, 14-17 October 2014. Kharkiv, Ukraine.

- "Increase throughput by expectation Channel Quality Indicator (CQI)."

Proceedings of IX International Conference «Electronics and Applied Physics»: 22-25 of October 2014, Kyiv, Ukraine.

- " Increase bandwidth in LTE-A networks."
- "Performance in channel estimation for LTE."

Proceedings of IX International Conference «Electronics and Applied Physics»: 22-25 of October 2014, Kyiv, Ukraine.

- " Increase bandwidth in LTE-A networks."

The 5th Birmingham Environment for Academic Research (BEAR) Postgraduate Conference, 2014, Birmingham, UK

- 2nd poster presented in the conference: "Effected VOIP Service By Means Subjective Method Using MOS In LTE Network"
- **Others**….

Training Courses:

- Cisco CCNA Exploration: network fundamental/Iraq, 2009.
- Training course in the nets, wire, and wireless/Iraq, 2009.
- Training course in D-Link VoIP, Kharkiv, Ukraine, 2011.
- Higher school pedagogics with fundamental of pedagogic mastery, Kyiv, Ukraine, 2012-2013.
- Standing and problem of modern information technologies, Kyiv, Ukraine, 2013.
- Information technology in education, Kyiv, Ukraine,2013-2014.

- Pedagogic practical training: laboratory work in “Networks and devices of transmission data,” Kyiv, Ukraine, 2014-2015.
- Upgrade yourself with lifecell, lifecell, Kyiv, Ukraine, 2019
- Mobile Telecommunication Evolution, Kyiv, Ukraine, 2019

Language Skills:

- Arabic – Mother Language
- Other Languages – English, Russian, and Ukrainian Language

IT Skills:

- Matlab;
- Multi simulation in telecommunication system;
- C++;
- Packet tracer;
- Other programs.

References Are Available on Request.