## Theme 1-2: ICT and IoT - 2020

| Title | Authors | Scopus Source title | Volume | Issue | Pages | Source type | Publication type | Open Access |
|---|---|---|---|---|---|---|---|---|
| Digital twin conceptual model within the context of internet of things | Al-Ali, A.R.\| Gupta, R.\| Batool, T.Z.\| Landolsi, T.\| Aloul, F.\| Nabulsi, A.A. | Future Internet | 12 | 10 | 44941 | Journal | Article | Gold\|Green |
| A dataset for Wi-Fi-based human activity recognition in line-of-sight and non-line-of-sight indoor environments | Alsaify, B.A.\| Almazari, M.M.\| Alazrai, R.\| Daoud, M.I. | Data in Brief | 33 | - | | Journal | Data Paper | Gold\|Green |
| Using BLE beacons and machine learning for personalized customer experience in smart cafés | Zualkernan, I.A.\| Pasquier, M.\| Shahriar, S.\| Towheed, M.\| Sujith, S. | 2020 International Conference on Electronics, Information, and Communication, ICEIC 2020 | - | | | Conference Proceeding | Conference Paper | 0 |
| Designing an Edge Layer for Smart Management of Large-Scale and Distributed Solar Farms | Shapsough, S.\| Zualkernan, I. | Lecture Notes in Electrical Engineering | 621 | - | 651-661 | Book Series | Conference Paper | 0 |
| Smartwatches for Context-Aware Ubiquitous Learning | Takiddeen, N.\| Zualkernan, I. | Smart Innovation, Systems and Technologies | 158 | - | 191-205 | Book Series | Conference Paper | 0 |
| Little genius: An experiment in internet of tangible learning things | Zualkernan, I.A.\| Aloul, F.\| Algebail, E.\| Refaay, M.E.\| Ali, A.\| Sabaa, O.E. | Proceedings - IEEE 20th International Conference on Advanced Learning Technologies, ICALT 2020 | - | - | 69-71 | Conference Proceeding | Conference Paper | 0 |
| A QoE-Based Framework for Video Streaming over LTE-Unlicensed | Hassan, M.S.\| Ismail, M.H.\| Landolsi, T.\| Ahmed, I.\| Aseeri, F.M. | IEEE Access | 8 | - | 180458-180470 | Journal | Article | Gold |
| An IoT-based remote IV tracing system for analysis of city-wide solar power facilities | Shapsough, S.\| Takrouri, M.\| Dhaouadi, R.\| Zualkernan, I. | Sustainable Cities and Society | 57 | - | - | Journal | Article | |
| Communication Network for Ultrasonic Acoustic Water Leakage Detectors | Awwad, A.\| Yahyia, M.\| Albasha, L.\| Mortula, M.M.\| Ali, T. | IEEE Access | 8 | - | 29954-29964 | Journal | Article | Gold |
| On the Stochastic Modeling of the Holding Time of SUs to PU Channels in Cognitive Radio Networks | Aborahama, Y.\| Hassan, M.S. | IEEE Transactions on Cognitive Communications and Networking | 6 | 1 | 282-295 | Journal | Article | |
| Hybrid Look-Up-Tables Based Behavioral Model for Dynamic Nonlinear Power Amplifiers | Dalbah, A.I.\| Hammi, O.\| Zerguine, A. | IEEE Access | 8 | - | 53240-53249 | Journal | Article | Gold |
| Large-scale channel characterization at 28 GHz on a university campus in the United Arab Emirates | Aborahama, M.\| Zakaria, A.\| Ismail, M.H.\| El-Bardicy, M.\| El-Tarhuni, M.\| Hatahet, Y. | Telecommunication Systems | 74 | 2 | 185-199 | Journal | Article | |
| A QoE-aware mode selection framework for video streaming in D2D networks | Ahmed, I.\| Ismail, M.H.\| Hassan, M.S. | IEEE Access | 8 | - | 169272-169285 | Journal | Article | Gold |
| Full-Duplex Store-Carry-Forward scheme for Intermittently Connected Vehicular Networks | Siddig, A.A.\| Ibrahim, A.S.\| Ismail, M.H. | IEEE Vehicular Technology Conference | 2020- | | - | Conference Proceeding | Conference Paper | |
| A Buffer-Based Rate Adaptation Approach for Video Streaming over HTTP | El Meligy, A.O.\| Hassan, M.S.\| Landolsi, T. | Wireless Telecommunications Symposium | 2020- | - | - | Conference Proceeding | Conference Paper | |
| Behavioral Modeling of GaN Doherty Power Amplifiers Using Memoryless Polar Domain Functions and Deep Neural Networks | Khawam, Y.\| Hammi, O.\| Albasha, L.\| Mir, H. | IEEE Access | 8 | - | 202707-202715 | Journal | Article | Gold |
| Optimum Resource Allocation for Full-Duplex Vehicular Communication Networks | Siddig, A.A.\| Ibrahim, A.S.\| Ismail, M.H. | IEEE Access | 8 | - | 146683-146696 | Journal | Article | Gold |
| An optimal power allocation and relay selection full-duplex store-carry-forward scheme for intermittently connected vehicular networks | Siddig, A.A.\| Ibrahim, A.S.\| Ismail, M.H. | IEEE Access | 8 | - | 163903-163916 | Journal | Article | Gold |
| A PDE-based approach for the evaluation of probability of starvation in video streaming | ur Rahman, T.A.\| Aborahama, Y.\| Hassan, M.S.\| Ismail, M.H. | Physical Communication | 40 | - | - | Journal | Article | |
| Remote thermal water leakage sensor with a laser communication system | Awwad, A.\| Yahya, M.\| Albasha, L.\| Mortula, M.M.\| Ali, T. | IEEE Access | 8 | - | 163784-163796 | Journal | Article | Gold |
| A Novel Medium Access Control Algorithm for Ad Hoc Networks Based on Ising Model | Rahman, T.A.U.\| Hassan, M.S.\| Ismail, M.H. | IEEE Access | 8 | - | 161682-161691 | Journal | Article | Gold |
| Ultrasound Water Leakage Image Denoising by the Iterative Mmse Filter Abstract | Yahia, M.\| Mortula, M.M.\| Awwad, A.\| Albasha, L.\| Ali, T. | 2020 International Conference on Advanced Technologies for Signal and Image Processing, ATSIP 2020 | - | - | | Conference Proceeding | Conference Paper | |
| A Queue-Length Based Approach to Metropolized Hamiltonians for Distributed Scheduling in Wireless Networks | Ameen Ur Rahman, T.\| Hassan, M.\| Ismail, M.H. | Wireless Telecommunications Symposium | 2020- | - | | Conference Proceeding | Conference Paper | |
| Low Frequency Bimorph Cantilever Energy Harvester for Pacemaker Applications | Mostafa, A.\| Albasha, L. | Middle East Conference on Biomedical Engineering, MECBME | 2020- | - | - | Conference Proceeding | Conference Paper | |
| A QoE-Based Framework for Video Streaming over LTE-Unlicensed | Hassan, M.S.\| Ismail, M.H.\| Landolsi, T.\| Ahmed, I.\| Aseeri, F.M. | IEEE Access | 8 | - | 180458-180470 | Journal | Article | Gold |