

## List of Publications

### Journal:

1. Sunny Katyara, Madad Ali Shah, Shehnaila Zardari, Bhawani Shankar Chowdhry, **Wanod Kumar**, "WSN Based Smart Control and Remote Field Monitoring of Pakistan's Irrigation System Using SCADA Applications," *Wireless Personal Communications*, Vol. 95, no.2, pp. 491–504, 2017.
2. Samya Bhattacharya, Bilal R. Qazi, Adnan Muhtar, **Wanod Kumar**, and Jaafar M.H. Elmirghani, "Sleep-enabled roadside units for motorway vehicular networks," *Vehicular Communications*, vol. 7, pp. 21-39, 2017.
3. M. A. Ali, M. Arif and **W. Kumar**, "Joint CIR, CFO, DCO and FI/FS Rx IQ imbalance estimation," in *IET Communications*, vol. 10, no. 15, pp. 2025-2033, 2016.
4. Sayed Hyder Abbas Musavi, B. S. Chowdhry, Tanesh Kumar, Bishwajeet Pandey, and **Wanod Kumar**, "IoT Enabled Active Contour Modeling Based Energy Efficient and Thermal Aware Object Tracking on FPGA", *Wireless Personal Communications*, Vol. 85, no.2, pp. 29–543, 2015.
5. Arbab Nighat Khizer, Imtiaz Hussain, Wanod Kumar, "Time domain System Identification of Longitudinal Dynamics of Single Rotor Model Helicopter using SIDPAC", *Mehran University Research Journal of Engineering & Technology*, Vol.34, pp.75-81, 2015.
6. **Wanod Kumar**, Samya Bhattacharya, Bilal R. Qazi and Jaafar M. H. Elmirghani, "A Vacation-Based Performance Analysis of an Energy-Efficient Motorway Vehicular Communication System", *IEEE Transactions on Vehicular Technology*, Vol. 63, pp.1827-1842, May 2014.
7. **Wanod Kumar**, Irfan Ahmed Halepoto, and Imtiaz Hussain, "Performance Analysis of TDMA Protocol in a Femtocell Network", *Mehran University Research Journal of Engineering & Technology*, Vol.33 pp. 330-334, July 2014.
8. Sanam Memon, **Wanod Kumar**, and Muhammad Asim Ali "Queuing Theoretic Analysis of a WSN based Earthquake Monitoring System", *IEEEP New Horizons*, Vol.79-80, pp.5-11, December 2013.
9. Wajiha Shah, Syed Asif Ali Shah and **Wanod Kumar**, "Performance Evaluation of Controlled Arrival Rate System through Matrix Geometric Method Using Transient Analysis", *Mehran University Research Journal of Engineering & Technology*, Vol. 32, No. 1, July 2013.
10. Aamir Amir, **Wanod Kumar**, Bhawani Shankar Chowdhry, and Asim Amir, "Complex (RLC) Design Analysis Method of Zero Current Switching Series Resonant Inverter High Voltage DC to DC Converter", *Sindh University Research Journal (Science Series)*, Vol. 45, pp.453-460, June 2013.

### Conferences:

11. M. H. Memon, **W. Kumar**, A. Memon, B. S. Chowdhry, M. Aamir and P. Kumar, "Internet of Things (IoT) enabled smart animal farm," 3rd International Conference on Computing for Sustainable Global Development (INDIACom), New Delhi, 2016, pp. 2067-2072.
12. M. A. Ali, **W. Kumar** and M. Arif, "OFDM receiver design in the presence of both Tx and Rx IQ imbalance over frequency selective channels," *IEEE Sixth International Conference on Communications and Electronics (ICCE)*, Ha Long, 2016, pp. 94-98.
13. **Wanod Kumar**, Samya Bhattacharya, Bilal R. Qazi and Jaafar M. H. Elmirghani, "An Energy Efficient Double Cluster Head Routing Scheme for Motorway Vehicular Networks," in *IEEE ICC 2012 - Ad-hoc and Sensor Networking (ICC'12 AHSN) Symposium*, Ottawa, Ontario, Canada, June 10-15, 2012.
14. **Wanod Kumar**, Adnan Muhtar, Bilal R. Qazi and Jaafar M. H. Elmirghani, "Energy and QoS Evaluation for a V2R Network," in *IEEE Global Communications Conference (GLOBECOM)*, 5-9 Dec. 2011, Houston, Texas, USA
15. Hamdi Idjmayyel, **Wanod Kumar**, Bilal R. Qazi, Jaafar M.H. Elmirghani "Energy and QoS- a New Perspective in a City Vehicular Communication Network" in *IEEE Global Communications (GLOBECOM)*

Workshop on Heterogeneous, Multi-Hop, Wireless and Mobile Networks, 5-9 Dec. 2011, Houston Texas, USA

16. Bilal R. Qazi, Adnan Muhtar, **Wanod Kumar** and Jaafar M. H. Elmirghani, "Performance of a Double Cluster Head Routing Scheme in a Motorway Environment", in the 6th IEEE Globecom 2010 Workshop on Broadband Wireless Access, Miami, Florida, USA, 6-10 December, 2010.
17. **Wanod Kumar**, Bilal R. Qazi, Jaafar M. H. Elmirghani "Performance Evaluation of a Microcellular Motorway Vehicular Network under Realistic Channel Characteristics" in the 7th International Conference on Wireless and Optical Communications Networks (WOCN) 6-8 Sept. 2010.
18. Bilal R. Qazi, **Wanod Kumar** and Jaafar M. H. Elmirghani, "Performance analysis of a MAC protocol under realistic channel characteristics in a motorway environment," in the 5th IEEE Globecom 2009 Workshop on Broadband Wireless Access, Honolulu, Hawaii, USA, November 30-December 04, 2009.