

Dr. Sanjeeb Shrestha

List of Publications

Journal Papers

- Shrestha, Sanjeeb. *Addressing the hidden terminal problem in MU-MIMO WLANs with relaxed zero-forcing approach*. Diss. 2017.
- Shrestha, Sanjeeb, Gengfa Fang, Eryk Dutkiewicz, and Xiaojing Huang. "Solving hidden terminal problem in MU-MIMO WLANs with fairness and throughput-aware precoding and a degrees-of-freedom-based MAC design." *EURASIP Journal on Wireless Communications and Networking* 2016, no. 1 (2016): 1-25.
- Shrestha, Sanjeeb, Gengfa Fang, Eryk Dutkiewicz, and Xiaojing Huang. "Relaxed Zeroforcing for FRF based-MU-MIMO WLANs." (In preparations, intended to submit in the *IEEE Transaction on Vehicular Technology*)

Conference Papers

- Shrestha, Sanjeeb, Gengfa, Fang, Eryk, Dutkiewicz, and Xiaojing, Huang. "Effect of CSI quantization on the average rate in MU-MIMO WLANs." In *2016 13th IEEE Annual Consumer Communications & Networking Conference (CCNC)*, pp. 824- 828. IEEE, 2016.
- Shrestha, Sanjeeb, Gengfa, Fang, Eryk, Dutkiewicz, and Xiaojing, Huang. "Medium Access Control Protocol to Address Hidden Terminals in MU-MIMO WLANs." In *Computer and Information Technology; Ubiquitous Computing and Communications; Dependable, Autonomic and Secure Computing; Pervasive Intelligence and Computing (CIT/IUCC/DASC/PICOM)*, 2015 IEEE International Conference on, pp. 1638-1645. IEEE, 2015.
- Shrestha, Sanjeeb, Gengfa, Fang, Eryk, Dutkiewicz, and Xiaojing, Huang. "Zeroforcing precoding based MAC design to address hidden terminals in MU-MIMO WLANs." In *Telecommunications (ICT)*, 2015 22nd International Conference On, pp. 283-288. IEEE, 2015.
- Shrestha, Sanjeeb, Gengfa, Fang, Eryk, Dutkiewicz, and Xiaojing, Huang. "Addressing hidden terminals in wlan with zero forcing coordinated beamforming." In *Communications and Information Technologies (ISCIT)*, 2014 14th International Symposium on, pp. 249-253. IEEE, 2014.
- Shrestha, Sanjeeb, Zheng, Dou, and Khan, Zahid. "Performance analysis of spatial multiplexing MIMO system with time reversal technology." *Proc. SPIE 8768, International Conference on Graphic and Image Processing (ICGIP 2012)*, doi:10.1117/12.2010533; <http://dx.doi.org/10.1117/12.2010533>.
- Shrestha, Sanjeeb, and Zheng, Dou. "MIMO channel capacity and its impact on BER with CSI influence." In *Millimeter Waves (GSMM)*, 2012 5th Global Symposium on pp. 498-502. IEEE, 2012.
- Gordon, O, Zhen, Dou, Morales, A.P, and Shrestha, Sanjeeb. "Inter-link multi-user MIMO channel capacity and the effects of clusters." In *Communication Software and Networks (ICCSN)*, 2011 IEEE 3rd International Conference on pp. 16-20. IEEE, 2011.