

Dr. G.Aruna Assistant Professor (ECE) PhD (Indian Institute of Technology Guwahati)

Department of Electronics & Communication Engineering

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loined the Institute in May 2014

Research Interests

Wireless and Mobile communications, MIMO Systems, MM wave communications

Teaching

Theory Courses: Signals and Systems(EC241), Probability and Random Process MA(203), Principles of Communication (EC251), Principles of Communication Lab(EC252), Mobile Communication (EC451), Communication Networks (EC351) Laboratory Courses: Signals and Systems Lab(EC242), Principles of Communication

Publication

Journal

- S. Bhattacharyya and G. Aruna, "Radiation Pattern Analysis of Uniform Rectangular Planar Arrays for Millimeter Wave Communications: Comparative study with Uniform Linear Arrays", International Journal of Wireless Personal Communications, (2019), Springer
- "BER Analysis of EGC Receiver over Correlated Nakagami-m Fading Channels with Phase Error and asynchronous CCI", International Journal of Wireless Communication and Mobile Computing, (2019).
- G.Aruna, "Outage Probability of EGC Receiver Over Composite Fading Channels with Phase Error and Co-channel Interference", IETE Journal Of Research,vol. 63, no.3, (2017), pages. 421-427,
- G. Aruna, "ABEP of EGC Receiver over Composite and Nonhomogenous Fading Channels with Phase Error and Co-Channel Interference", IETE Journal Of Research,vol. 59, no.5, (2013), pages. 472-478,

Conference

- Bhattacharyya and G. Aruna, "Radiation Pattern Analysis of Uniform Linear Arrays for Millimeter Wave Communications", 2019 IEEE International Conference on Computer Communication and Informatics (ICCCI), (2019), Coimbatore, India
- S. Bhattacharyya and G. Aruna, "Outage Probability Analysis of SNR for a MM wave Beamsteered MIMO-MRC System", IEEE International Conference on Wireless Communications, Signal Processing and Networking (WISPNET), Tamil Nadu, India, (2019)
- G.Aruna; Manash Pratim Barman, "Performance Analysis of Advanced Diversity Receivers in the Presence of Multiple Interferers", IEEE-2018 International Conference on Wireless Communications, Signal Processing and Networking (WiSPNET), (2018), pages. 15,
- G. Aruna and S. Bhattacharyya, "Capacity and SNR Analysis of a Millimeter Wave Cellular Network with Phased Antenna Array", in Proc.2018 IEEE-International Conference on Computer Communication and Informatics (ICCCI), Coimbatore, India, (2018), pages. 15,
- G.Aruna, "BER of equal gain combiner over composite and nonhomogenous channels with co-channel interference and phase estimation error(Corrected version)", IEEE- International Conference on Computer Communication and Informatics (ICCCI), (2017), pages. 1 - 5,
- G. Aruna, "Performance Analysis of SSC and SEC Diversity Receivers in indoor MM wave Network", IEEE-International Conference on Wireless Communications, Signal Processing and Communication Networks, (2016), pages. 22-24,2104 2108, Chennai. Tamil Nadu
- G. Aruna, "PDF methodology of analysis of L branch equal gain combiner with carrier phase error and CCI over Nakagami-m fading", IEEE International Conference on Computing and Network Communications (CoCoNet'15), (2015), pages. 505 510.,
- G. Aruna, "Performance analysis of MRC receiver with channel estimation error and co-channel interference in Nakagami-m fading channel", International Conference on Computational Intelligence and Computing Research (ICCIC), (2014), pages. 1
 4, IEEE Conference Publications
- G. Aruna and P. R. Sahu, "Performance Analysis of MRC Receiver with Channel Estimation error and CCI in Nakagami-m Fading Channels", National Conference on Communications, NCC, (2012), pages. 3-5, IIT Kharagpur, India
- G. Aruna and P. R. Sahu, "ABER of Equal Gain Combiner over Correlated Hoyt Fading Channels with Phase Error and Co-Channel Interference", Annual IEEE India Conference, Indicon, (2012), pages. 936-940, Kochi India







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