

RESUME

BHAVNIKA GARG

Electronics and Communication Engineering

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RESEARCH

My research is focused on Wireless Communication System. Studied characteristics of MIMO and Massive MIMO systems. Currently working on TWDP fading and spatial modulation.

EDUCATION

2013-2015 M.E. in Electronics and Communication Engineering
Thapar University, Patiala-147004
Punjab, India
Dissertation topic: Capacity of MIMO and
MassiveMIMO system in TWDP fading channel

2009-2013 B.Tech in Electronics and Communication Engineering
Punjabi University , Patiala-147004
Punjab, India

WORK EXPERIENCE

Worked as Assistant Professor (ECE) in LOVELY PROFESSIONAL UNIVERSITY(JALANDHAR) from July 2015-April 2018.

RESEACRH INTEREST

- MIMO systems
- Massive MIMO system
- Spatial Modulation
- TWDP fading channel

TEACHING

COURSES TAUGHT :-

- Signals and Systems
- Probability and Statistics
- MATLAB
- Basic Electrical Engineering
- Energy Management
- Basic Electrical Engineering Laboratory
- Digital Electronics
- Optical Fiber Communication
- Elements of Electrical and Electronics Engineering
- Digital Electronics Laboratory
- Troubleshooting of Electronic Equipment's
- Elements of Electrical and Electronics Engineering Laboratory
- Wireless and Mobile Communication
- Wireless and Mobile Communication Laboratory

PUBLICATIONS

- “Mitigation of Pilot Contamination in Massive MIMO systems” published in Fast east journal of electronics and communication, August 2016.
- “Capacity of MIMO system in TWDP fading channel” published in International Journal of Performability Engineering, July 2017.

REVIEWS

- Reviewed paper for International Journal of Communication Systems.
- Reviewed paper for Transactions on Emerging

Telecommunications Technologies.

PROJECT GUIDANCE

- Guided B.tech Final year students in making project on wireless sensor networks titled “**Detection of hazardous gases using wireless sensor networks**” which aimed at sending informatory message to control room authorities to take immediate precautionary actions if the level of hazardous gases increases beyond limit.
- Guided electrical students in making project entitled “**Password based Lineman safety circuit breaker**”.
- Guided electrical students in making project entitled “**Energy generation from footstep using piezoelectric material**”.

ADMINISTRATIVE AND OTHER ACTIVITIES

- Research Coordinator
- Academic Counselor
- Course Planner
- Course Coordinator
- Observer in distance education exams
- Chief examiner
- Section mentor
- Placement Mentor