

Resume



Name : Dr. Manoranjan Rai Bharti
Designation : Assistant Professor
Department : Electronics & Communication Engineering
Qualification : Ph.D. (IIT Roorkee), M.Tech. (NIT Kurukshetra), B.Tech. (NIT Hamirpur)
Phone : 254646
Email ID : manoranjan@nith.ac.in
Profile URL : <https://portfolios.nith.ac.in/index.php?nith/dr-manoranjan-rai-bharti->

Other Profile Links

Research Gate Link :

Personal Web Link :

Google Scholar Link :

Research Profile

Research Interests : Cognitive Radio; Signal processing for communications; Resource allocation in wireless communications; Cooperative communications.

Brief Research Profile :

Qualification

Name of the Degree	Year Of Passing	Institute/University
B.Tech.	1992	National Institute of Technology Hamirpur (HP)
M.Tech.	1999	National Institute of Technology Kurukshetra (Haryana)
Ph.D.	2018	Indian Institute of Technology Roorkee (Uttarakhand)

Publications

Year	Journal	Publication	Indexed In
2011	IJCA Special Issue on Communication and Networks comnetcn (1)	Adaptive Resource Allocation with Proportional Rate Constraints for OFDMA Based Next Generation Networks, No.10, pp. 40-43.	Google Scholar, ProQuest, ISSN: 0975 - 8887
2012	International Journal of Computer Applications	Fairness based improved subcarrier allocation algorithms for OFDMA based next generation networks, Vol. 47, No.7, pp. 41-45.	Google Scholar, ProQuest, ISSN: 0975 - 8887
2013	International Journal of Computer Applications	Distance based an Efficient Transmit Power Control Scheme in Cognitive Radio System with Multiple Antennas, Vol. No. 72, No. 21, pp. 32-37.	Google Scholar, ProQuest, ISSN: 0975 - 8887
2013	International Journal of Computer Applications	An Adaptive and Efficient Local Spectrum Sensing Scheme in Cognitive Radio Networks, Vol. No. 72, No. 23, pp. 38-45.	Google Scholar, ProQuest, ISSN: 0975 - 8887
2014	International Journal of Computer Applications	An LP based fair subcarrier allocation algorithm for cooperative OFDMA systems with grouped users, Vol. No. 96, No. 9, pp. 36-41	Google Scholar, ProQuest, ISSN: 0975 - 8887
2017	Physical Communication (Elsevier)	Spectrum efficient power allocation schemes for OFDM cognitive radio with statistical interference constraints, Vol. No. 24, pp. 169-181.	SCI and Scopus, ISSN: 1874-4907
2018	Physical Communication (Elsevier)	Power allocation for multiuser precoded OFDM cognitive radio, Vol. No. 30, pp. 193-203.	SCI and Scopus, ISSN: 1874-4907

Edited Book/Book Chapter

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Book Chapter	Spectral Efficiency Analysis of Massive MIMO Systems, Book: Intelligent Computing and Communication Systems, pp. 3-13	Springer, Singapore	Vaibhav Thakur and Manoranjan Rai Bharti	ISBN: 978-981-16-1295-4	2021

Research Projects

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
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Research Supervision

Programme Name	Scholar Name	Research Topic	Status	Year	Co-Supervisor
M.Tech	Mr. Sandeep Kumar	Radio Resource Management in Wireless OFDMA Networks	Awarded	2011	
M.Tech	Mr. Deepak Singh	Performance Analysis of Inter-carrier Interference Cancellation Techniques in OFDM Systems	Awarded	2012	
M.Tech	Mr. Kamal Singh	Performance Analysis of PAPR Reduction Techniques in Wireless OFDMA Networks	Awarded	2012	
M.Tech	Mr. Rohit Sharma	Performance Analysis of Adaptive Resource Allocation Algorithms in Wireless OFDMA Networks	Awarded	2012	
M.Tech	Mr. Sandeep Kumar Jain	Performance Analysis of Power Control Schemes in Cognitive Radio Network	Awarded	2013	
M.Tech	Mr. Amardip Kumar	Performance Analysis of Spectrum Sensing Schemes in Cognitive Radio Networks	Awarded	2013	

Programme Name	Scholar Name	Research Topic	Status	Year	Co-Supervisor
M.Tech	Mr. Anil Kumar	Performance Analysis of Radio Resource Allocation Schemes in OFDM-based Cooperative Networks	Awarded	2014	
M.Tech	Mr. Ankur Gangwar	Performance Analysis of Adaptive Resource Allocation Schemes in MIMO-OFDM Systems	Awarded	2014	
M.Tech	Mr. Ravindra Kumar Yadav	Performance Analysis of Dynamic Resource Allocation Algorithms in OFDM-based Cognitive Radio Networks	Awarded	2014	
Ph.D	Ms. Tanuja Dogra	Wireless Communications	Ongoing	2019	
M.Tech	Ms. Parmila Devi	Spectrum Shaping for OFDM-based Cognitive Radio System	Awarded	2019	
Ph.D	Ms. Parmila Devi	Wireless Communications	Ongoing	2019	
M.Tech	Ms. Neha Verma	Power Allocation for Non-Orthogonal Multiple Access Based Wireless Communication Systems	Awarded	2020	
M.Tech	Mr. Shubham	Performance Analysis of LED Distribution Patterns for Indoor Visible Light Communication System	Awarded	2020	
M.Tech	Mr. Ashish Kaushal	Physical Layer Security Performance Study and Analysis of Energy Harvesting Wireless Networks	Awarded	2020	
M.Tech	Mr. Vaibhav Thakur	Spectral Efficiency Analysis of Massive MIMO Systems	Awarded	2020	
M.Tech	Ms. Anushka Srivastava	Anomaly Detection in Unlabelled Dataset of Wireless Sensor Networks Using Machine Learning	Awarded	2021	
M.Tech	Mr. Jagdeep	Energy Efficiency Analysis for Massive MIMO Systems	Awarded	2021	
M.Tech	Mr. Siddhartha Kumar Singh	Max Pool Convolutional Long Short-term Deep Neural Network For Modulation Classification	Awarded	2021	
M.Tech	Mr. Anil Kumar	Pilot Contamination Attack Detection for NOMA in 5G Communication	Awarded	2021	

Patents

Name	Reg./Ref.No.	Date Of Award/Filing	Organization	Status
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Teaching

Programme Name	Subjects Taught	From	To	Credits
Assistant Professor (Grade-I) (Pay Level-12 of 7th CPC)	Department of Electronics & Communication Engineering, NIT Hamirpur (HP)	06/05/2019		Working
Assistant Professor (AGP: Rs.7000.00 of 6th CPC)	Department of Electronics & Communication Engineering, NIT Hamirpur (HP)	06/08/2012	05/05/2019	6 Years 9 Months
Assistant Professor (AGP: Rs.6000.00 of 6th CPC)	Department of Electronics & Communication Engineering, NIT Hamirpur (HP)	06/08/2007	05/08/2012	5 Years
Manager	Bharat Electronics Limited (BEL) [A PSU under the Ministry of Defence, Government of India]	01/01/2007	03/08/2007	7 Months
Dy. Manager	Bharat Electronics Limited (BEL) [A PSU under the Ministry of Defence, Government of India]	01/07/2002	31/12/2006	4 Years 6 Months
Sr. Engineer	Bharat Electronics Limited (BEL) [A PSU under the Ministry of Defence, Government of India]	01/07/2000	30/06/2002	2 Years
Dy. Engineer	Bharat Electronics Limited (BEL) [A PSU under the Ministry of Defence, Government of India]	01/01/1996	30/06/2000	4 Years 6 Months

Administrative Responsibilities

Position Held	Organization	From	To	Remarks
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Expert Talks

Title	Place	Year	Description
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Professional Activities

Name of Activity	Role	Duration	Organization
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Courses Organized

Category	Type	Title	Venue	From	To	Designation
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Date :

Place :

Signature