

**MEHBOOB-UL- AMIN**

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Srinagar, Kashmir.

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**Career Objective**

Looking for a promising & challenging career which will enable me provide best of my Technical, analytical & professional skills. A career which can sharpen my current skills and knowledge and where I can have a good scope of learning and implementing new technologies.

**Academic Record****1. PhD (Electronics and Communication) 2017-18**

*Topic: Design Analysis and Implementation Techniques for Interference Mitigation and Precoding in 4G LTE*

**2. Master of Technology, Electronics and Communication- 2013**

*Topic of Thesis: "Simulation Modeling of MIMO-OFDM with the improvement in the reduction of PAPR for various M-Ary Phase modulations"*

**3. Bachelor of Engg, Electronics and Communication, 2010-11****International Publications**

1. **Mehboob ul Amin**, Javaid A Sheikh, , SA Parah, G.M Bhat, "Analytical Analysis and effect of Scrambling on inter- relay interference in tri-sectorized LTE-A network" **International Journal of Wireless and Mobile Computing** 14(2) :200. DoI: 10.1504/IJWMC.2018.091142 I.F=0.71
2. Javaid A Sheikh, **Mehboob ul Amin**, SA Parah, G.M Bhat, "Towards Green Capacity in Massive MIMO based 4G LTE-A cell using Beam-forming Vector based Sectorized Relay Planning" **Wireless Personal Communication, Springer, I.F =1.2, DOI: 10.1007/s11277-017-4809-8.**

3. Javaid A Sheikh, **Mehboob ul Amin**, SA Parah, G.M Bhat, "Impact of Antenna and Beam selection based Sectored Relay Planning on the performance evaluation of 4G LTE-A tri-sectored cell" **Digital Communication Networks, Elsevier, I.F=3.6, <https://doi.org/10.1016/j.dcan.2017.08.006>.**
4. Javaid A Sheikh, **Mehboob ul Amin**, SA Parah, G.M Bhat, "On Exploiting MIMO technology for achieving maximum Detection Probability and mitigating Interference in Tri-Sectored cooperative Cognitive Radio networks" **International Journal of Wireless and Mobile Computing 13(3):200. I.F =0.71, DoI: 10.1504/IJWMC.2017.10009510.**
5. **Mehboob ul Amin**, Javaid A Sheikh, Shabir A Parrah, GM Bhat, " Novel Hybrid Technique for PAPR Reduction in OVSF based OSTBC OFDM **2015 IEEE Indicon, ISBN: 978-1-4673-6540-6/15**
6. **Mehboob ul Amin**, Javaid Skeikh, S.A Parrah, G.M Bhat, "A new method for PAPR reduction in MIMO-OFDM using combination of OSTBC Encoder and T×T Spreading" **Elixir Network Engg(UK) ISSN 2229-712X**
7. **Mehboob ul Amin**, Javaid A Skeikh, Shabir A Parrah and GM Bhat, "Performance evaluation of various MIMO based digital modulation techniques Using Minimum mean square error (MMSE) combining," **Elixir Network Engg (UK) ISSN 2229-712X.**
8. Javaid A Sheikh, **Mehboob ul Amin**, SA Parah, G.M Bhat, "Multi-Carrier signal for Cognitive Radio with Low Peak-to Average- Power- Ratio" **International Journal of Applied Mathematics Electronics and Computers (Turkey), ISSN:2147-8228, IF=0.66, DOI: 10.18100/ijamec.3125.**
9. Priyanka Mishra, **Mehboob ul Amin** "DESIGN, SIMULATION AND FABRICATION OF INSET MICROSTRIP PATCH ANTENNA AT 5GHZ ", International Journal of Emerging Technologies and Innovative Research ([www.jetir.org](http://www.jetir.org)), ISSN:2349-5162, Vol.5, Issue 7, page no.1555-1557, July-2018, Available :<http://www.jetir.org/papers/JETIRC006267.pdf>
10. Priyanka Mishra, **Mehboob ul Amin**, " PAPR reduction in OFDM using various Coding techniques" **International Journal of Wireless and Mobile Computing I.F =0.71(In Press)**
11. Priyanka Mishra, **Mehboob ul Amin**, C.k Shukla " Various Space time block codes over different modulation techniques using new Sphere Decoder", **International Journal of Engineering and Technology (U.A.E), Cite Score(Scopus)=0.60, 7(4) 2018 ISSN:2227-415X.**

12. Priyanka Mishra, **Mehboob ul Amin**, C.k Shukla , “Low Complexity Decoding Algorithm for Rotated Quasi Orthogonal Space Time Block Codes for Modified Sphere Decoder” **International Journal of Applied Engineering Research**, 7(4)2018 4282-4289, ISSN: 0973-4562
13. Javaid A Sheikh, **Mehboob ul Amin**, SA Parah, G.M Bhat, “Capacity Enhancement and Performance Evaluation in 4G LTE-Advanced Networks Using Sectorized Relaying” *“Engineering Maths, DOI: 10.15520/ajcem.2016.vo;5.iss1.45.pp12-16.*
14. Subba Amin, **Mehboob ul Amin**, GM Bhat , “ Spectrum Sensing in Cognitive Radio at Different SNRs using MIMO technique” **International Journal of Advance Research in Science and Engineering** 7(4) .e- ISSN 2319-8354, P-ISSN 2319-8346.April 2018.
15. **Mehboob ul Amin**, Priyanka Mishra, “Overview of PAPR Reduction Coding Techniques for OFDM” ” **International Journal of Advance Research in Science and Engineering** 7(5) .e- ISSN 2319-8354, P-ISSN 2319-8346.April 2018
16. Priyanka Mishra, **Mehboob ul Amin**, “ PAPR reduction in DVB based MIMO OFDM using various coding techniques” **International Journal of Engg Research ISSN :2319-6890, p-ISSn (2347-5013) 7(1) jan 2018**
17. Saba.Amim, Anurag Sharma, **Mehboob ul Amin**, JA. Sheikh, SA Parrah,GM. Bhat “PAPR reduction in MIMO-OFDM System for various M-Ary Phase Modulations using Discreet Wavelet Transform Algorithm” **Australian Journal of Information Technology and Communication,If=0.78, ISSN:2203-2843**
18. Javaid A Sheikh,Sakina Akther, Sahir Majeed, **Mehboob ul Amin**, SA.Parah “ On the Design and Performance Evaluation of DWT based Compressed Speech Transmission with Convolutional Coding” **Communications on Applied Electronics (CAE) – ISSN : 2394-4714 Foundation of Computer Science FCS, New York, USA Volume 4 – No.9, April 2016 – [www.caeaccess.org](http://www.caeaccess.org)**
19. Javaid A Sheikh, **Mehboob ul Amin** ,Sakina Akther, Sahir Majeed, , SA.Parah “On the Design and Performance Evaluation of Peak to Average Power Ratio (PAPR) using Hybrid Transform Techniques in MIMO-OFDM” **International Journal of Computer Applications (0975 – 8887) Volume 141 – No.4, May 2016**
20. **Mehboob ul Amin**, Javaid Skeikh, S.A Parrah, G.M Bhat, “A new method for PAPR reduction in OFDM using Embedded Transform Techniques”, **Elixir Network Engg (UK) ISSN 2229-712X**

21. **Mehboob ul Amin**, R.Singh, Javaid Skeikh, “A new method of PAPR reduction using the combination of OSTBC Encoder and DCT Matrix in MIMO-OFDM systems”, **International Journal of Recent Technology and Engineering (IJRTE) ISSN: 2277-3878 IF=1 vol2 Issue 2 May 2013.**
22. **Mehboob ul Amin** “Improvement in the Reduction of PAPR for various M-Ary phase modulations in MIMO-OFDM Systems using orthogonal variable Spreading Factor (OVSF)”, **International Journal of Engineering Trends and Technology (IJETT), ISSN: 2231-5381vol2 Issue 6 June-July 2013**
23. **Mehboob ul Amin**, Javaid Skeikh, “MIMO-OFDM based image transmission using Hadamard Transform as PAPR reduction technique”, **International Journal of Engineering and Advanced Technology (IJEAT) IF= 1, vol 2, Issue 4 April 2013 pp550-553**
24. Javaid A. Sheikh, Shabir A. Parrah, G. Mohiuddin Bhat ,**Mehboob ul Amin**“ PAPR reduction in MIMO- OFDM system using combination of OSTBC encoder and Spreading Code Sequences”, **Proceedings of IEEE International Conference on Multimedia Signal Processing and Communication Technologies- IMPACT 2013 (IEEE XPLORE)**
25. Ijlal Hyder Rafiqi, Javed Ashraf, **Mehboob ul Amin**, M.T Beg, G.Mohiudin Bhat, “Performance Evaluation of Multiple Input Multiple Output Orthogonal Frequency Division Multiplexing (Mimo-Ofdm) for Alamouti Space Time Block Code using Various Digital Modulation Techniques” **International Journal of Soft Computing and Engineering (IJSCE) ISSN: 2231-2307, Volume-4 Issue-3, July 2014.**
26. Javaid A. Sheikh, **Mehboob-ul-Amin** ,Shabir A. Parah, G.Mohiudin Bhat, “ Improving the Network capacity and Coverage of 4G-LTE-Advanced System using Relaying Technology” **2015 International Conference on Advances in Computers, Communication and Electronic Engineering(COMMUNE 2015),ISBN:978-93-82288-54-1,pp 491-494.**
27. Shaika Mukhtar, Hitender Gupta, **Mehboob ul Amin**, “Performance Evaluation of MIMO Based Spectrum Sensing in Cognitive Radio” **IOSR Journal of Electronics and Communication Engineering (IOSR-JECE) e-ISSN: 2278-2834,p- ISSN: 2278-8735.Volume 10, Issue 3, Ver. III (May - Jun.2015).**
28. Iqra Farooq, Amardeep singh virk, **Mehboob ul amin** “PERFORMANCE EVALUATION OF DIGITAL AUDIO BASED COMPRESSED SPEECH TRANSMISSION OVER NOISY CHANNELS USING VARIOUS CODING ALGORITHMS” **International Journal of**

Engineering Research-Online A Peer Reviewed International Journal **ISSN: 2321-7758 Vol.3., Issue.5., 2015 (Sept.-Oct.)**

29. Firdous Ahmed,Peer Zahoor, **Mehboob ul Amin**,GM Bhat “Defects,Fault-Characterization and Implementation of Exclusive –NOR Gate using QCA” Quantum Matter.
30. S. Mukhtar, **Mehboob ul Amin** ,“ Cognitive Radio Technology – A Smarter Approach” IJSETR 5(2) Feb (2016) ISSN 2278-7798.

#### **Papers under revision**

1. A New Filter Bank Multicarrier (FBMC) based Cognitive Radio for 5G Networks using Optimization techniques Minor Revision **Wireless Personal Communication, Springer, USA**
2. A New Bio- inspired method of PAPR reduction in Filter Bank Multicarrier Modulation (FBMC) system, Under Review **International Journal of Wireless Sensors and Control, New-zealand**

#### **Book Chapters published**

1. **Resource Allocation in Broadband based IOT networks, Springer Berlin**
2. **Energy Efficient Resource allocation in LSA Array based 5G networks using Convex Optimization, Springer Berlin**

#### **Projects Undertaken.**

Design and Development of Noval Beam Forming Antenna system for CDMA under supervision of Prof GM Bhat, Dr.Javaid A.Sheikh.

#### **Academic Experience:**

Working as Lecturer (Contractual) in the Department of Electronics and Instrumentation Technology, University of Kashmir.

#### **Subjects Taught**

1. **Antennas and Wave Propagation (M.Sc.)**
2. **Digital Signal Processor (M.Tech)**
3. **Computer networks (M.Sc.)**
4. **Signals and Systems (M.Sc.)**

#### **Labs Supervised**

**Microwave and Antenna lab**  
**Wireless communication Lab**

## **Corporate Experience**

Worked as a trainee in the fields of Switching in GSM Mobile systems, Mobile networking, BTS Maintenance, Power plant Management and Media related to network at DOT/BSNL

Worked as an Operation and Maintenance Engineer in Ericsson India Pvt limited, experience of handling RBS (2206, 2204, and 2964), Microwave antennas, and various RBS faults like VSWR, RX diversity loss, Rx Path imbalance, and 2A:25, patching of E1's etc., handling of Microwave, GSM, CDMA, LTE projects.

## **Workshop Attended**

Attended 6 day workshop at MNNIT Allahabad for Antenna Design and Hands on IOT

## **Personal Details**

Date of birth: 16/07/1987

Fathers Name: Mohamed Amin

Sex: Male

Marital Status: Single

## **Declaration**

I consider myself familiar with Electronics & Communication Engg aspects. I am also confident of my ability to work in a team. I hereby declare that the information furnished above is true to the best of my knowledge.

***MEHBOOB-UL- AMIN***