

# CURRICULUM VITAE

## Dr. JYOTEESH MALHOTRA

**Dean, Faculty Of Engineering & Technology**  
**Professor and Head(Engineering & Technology Dept)**  
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## ACADEMIC QUALIFICATION

**Ph.D.** (Specialization in Wireless Communication & Networks)  
Faculty of Engineering, *Specialization in Wireless Comm. & Networks*  
**M.Tech.** (Electronics and Communication Engineering)  
*with Distinction, 1<sup>st</sup> rank in the University (Awarded with University Gold Medal)*  
Department of Electronics and Communication Engineering  
Guru Nanak Dev Engineering College, Ludhiana  
**B.Eng.**(Electronics and Telecommunication Engineering)  
*with Distinction, 2<sup>nd</sup> Rank in Institute and 3<sup>rd</sup> Rank in the University*  
*(Awarded with Merit Certificate)*  
P.R.M. Institute of Technology & Research, Amravati

## Publications

259 (includes SCI/Scopus Journals & 03 books )

**Experience** : 25 years in Teaching, Research and Administration (1994-2019)  
(Employers: **DAVCMC**, N. Delh; **Panjab University**, Chandigarh; **GNDU**, Amritsar)  
**Research Supervision:** *Guided 04 PhDs and 36 MTech. Dissertations.*  
**Research Interest:** IoT, Machine Learning application in Pervasive Wireless Communication & Networks, Optical Networks

## **INVITED/EXPERT LECTURES DELIVERED**

- I. Delivered Invited Talk in AICTE sponsored National Conference on Emerging Principles & Practices in Computer and Communication media, at SSCET, Pathankot, 7 & 8 April 2012.
- II. Delivered Expert Talk in Punjab Technical University sponsored Faculty development programme on Emerging Trends of wireless networks in Medical Field: Issues, Challenges and Tools, at Apeejay Institute of Management Technical campus, Jalandhar, held from 14 to 18 May 2012.
- III. Delivered Expert Talk in Punjab Technical University sponsored Faculty development programme on Optical and Wireless system & Networks, at CTIEMT Jalandhar, held on 1<sup>st</sup> June 2012.
- IV. Delivered Expert Talk in Punjab Technical University sponsored Faculty development programme on Research trends in Applied Physics and Electronics, at CTIT, Jalandhar, held from 4 to 6 June 2012.
- V. Delivered Invited Talk in Punjab Technical University sponsored Faculty development programme on Advances in Wireless, Image & Optical Communication, at RIEIT, Railmajra, held from 4 to 8 June 2012.
- VI. Delivered Invited Talk in UGC Sponsored National Seminar on Issues in Cloud Computing and Wireless Communication, at GNDU Regional campus, Gurdaspur, held from 13 to 14 August 2012.
- VII. Delivered Invited Talk on 'Technical Translation of IT Text: Challenges & Issues' in Translators Orientation Programme for knowledge Text Translation Sponsored by National Translation Mission (MHRD, Govt of INDIA) at GNDU Regional campus, Jalandhar, held from 04 to 08 September 2012.
- VIII. Delivered Expert Talk in UGC sponsored Refresher Course on the topic Communication Networks- Emerging trends and challenges at Academic Staff College, Guru Nanak Dev University, Amritsar held from 27 Nov. to 17 Dec. 2012.
- IX. Delivered Expert Talk on the topic Wireless Pervasive Networks- Trends and challenges at Guru Nanak Dev University College, Jalandhar on 6<sup>th</sup> Feb. 2013.
- X. Delivered Expert Talk on the topic Wireless Pervasive Systems and Networks at SGGSW University FatehGarh Sahib on 1<sup>st</sup> March 2013.
- XI. Delivered Expert Talk in TEQIP Sponsored (FDT) Future of communication Systems on the topic Pervasive Wireless Networks at S.L.I.E.T. Longowal, Jalandhar held from 30<sup>th</sup> August to 3<sup>rd</sup> September 2013.
- XII. Delivered Expert Talk in UGC sponsored Refresher Course 'Computer Science, Electronics and Information Technology' on the topic Pervasive Wireless

Networks at Academic Staff College, Guru Nanak Dev University, Amritsar held from 22 Oct. to 11 Nov. 2013.

- XIII. Delivered Expert Talk during ISTE-PTU sponsored Faculty Development Program as resource person on the topic Technology trends in Ubiquitous Wireless Communication at Rayat and Bahra College of Engineering and Nano technology for Women, Hoshiarpur on July 10, 2014.
- XIV. Delivered Expert Talk as resource person on the topic Wireless Communication System at Rayat and Bahra College of Engineering and Nano technology for Women, Hoshiarpur on Feb 06, 2015.
- XV. Delivered Expert Lecture on the topic Ubiquitous Wireless Access Networks at Lyallpur Khalsa College of Engineering, Jalandhar on Feb 16, 2015.
- XVI. Delivered Expert Lecture on the topic Ubiquitous Wireless Access Networks at CTIMT, Jalandhar on May 23, 2015.
- XVII. Delivered Expert Lecture on the topic Wireless Access Networks: Dreams & Challenges during NATIONAL CONFERENCE ON RESEARCH TRENDS IN PHYSICS AND ELECTRONICS (NPE-2016) at SGGS Khalsa College, Mahilpur, Hoshiarpur on Nov 26, 2016.
- XVIII. Delivered Expert Lecture on the topic Future Wireless Networks: Dreams & Challenges during National Conference on Communication and Computing Technologies (NCCCT-2017) at APeeJay College of fine Arts, Jalandhar on March 11, 2017
- XIX. Delivered Expert Lecture on the topic 5G Wireless Networks: Dreams & Challenges at DAVIET, Jalandhar on October, 2018
- XX. Delivered Expert Talk during short term course 'Current Avenues of Research in Electronics & Communication Engineering' on the topic Envisioning Next Generation Wireless Opportunities & Challenges at NIT, Jalandhar on March, 2019

### **INSTRUCTION ENHANCEMENT PROGRAMS & Workshops**

- Attended 08 weeks Instruction Enhanced program Electronic Test and measurement at **Indian Institute of Technology, Delhi** (Sponsored by Dept. of Electronics, World Bank and Swiss Development Co-operation )
- Attended 08 weeks Instruction Enhanced program on Physical Design of Electronics Equipment at **Nettur Technical Training Foundation (N.T.T.F), Electronic city, Bangalore** (Sponsored by Dept. of Electronics, World Bank and Swiss Development Co-operation project 'IMPACT')

- Attended 08 weeks Instruction Enhanced program on Consumer Electronics at **N.T.T.F, Electronic city, Bangalore** (Sponsored by project 'IMPACT')
- Attended 04 weeks Instruction Enhanced program on Electronic Equip. Maintenance at **N.T.T.F, Electronic city, Bangalore** (Sponsored by 'IMPACT')
- Attended 04 weeks Instruction Enhanced program on Inspection Testing and Quality control at **N.T.T.F, Electronic city, Bangalore** (Sponsored by project 'IMPACT')
- Attended 04 weeks Instruction Enhanced program on at **C.E.D.T, Mohali** (Sponsored by Project 'IMPACT')
- Attended 04 weeks General Orientation Course at Academic Staff College, **GNDU, Amritsar** (UGC Sponsored)
- Attended 01 weeks short term course on Curriculum Implementation & Evaluation at NITTTR, Sec-26, Chandigarh.  
Attended three days training on Electronic Product Design at Electronic Test and Development Centre, Dept. of Electronics , Bangalore
- Attended 5 days workshop on Industrial design at National Institute of Design, Bangalore.
- Attended three days programme on Certified Internal Quality Auditor for ISO 9001:2000 at Electronic Test and Development Centre, NABL Accredited Laboratory , Mohali
- Attended 7 days workshop in VLSI Design using VHDL by Advance Technology, Chandigarh
- Attended 01 weeks short term course on Setting of Question Papers and Student Evaluation at NITTTR, Sec-26, Chandigarh
- Attended 01 weeks summer school on Instrumentation & Signal Processing at **NIT, Srinagar** (Jointly organised with NIT, Jalandhar )
- Attended workshop on Making and Managing Patents at PTU, Jalandhar (in association with Patent Information Centre, Chandigarh)
- Attended 01 weeks short term course on MATLAB Based Advanced DSP at NITTTR, Sec-26, Chandigarh.
- Attended 01 weeks AICTE sponsored Winter school on Generic Skill Development at CTIEMT, Jalandhar.
- Attended 02 weeks faculty development program on VLSI Design and Embedded System at CDAC, Mohali.
- Attended workshop on Internet of Things (IoT) at Thapar University, Patiala

- Attended 01 week Faculty Development Programme on Cloud Computing and Internet of Things (IoT) at Dr. B R Ambedkar National Institute of Technology, Jalandhar.
- Attended 01 week Short Term Course on Machine Learning Applications for Engineering at GNDEC, Ludhiana
- Participated in NPTEL one day workshop by IIT Madras at IIT Ropar.
- Participated in two day workshop on Introduction to Robotics by E-yantra IIT Bombay.

## **Honours/Awards/Portfolios**

- Chairman, Board of Control, Engg & Technology Dept. GNDU RC, Jalandhar
- Special Invited member, Board of Studies, Punjab Technical University
- Member, Equivalence Committee, GNDU Amritsar
- Member, Selection Committee, GNDU Amritsar
- Member, Screening Committee, GNDU Amritsar
- Member, Advisory Committee, GNDU Amritsar
- Member, Academic Council, GNDU, Amritsar
- Member, Academic Council, LPU, Jalandhar
- Editorial Board Member, Scientific Journals of Repute
- Session Chair, UGC Sponsored National Seminar 2012, SMVDU, Jammu
- Session Chair, National Science Congress- 2013, DAVIET, Jalandhar
- Session Chair, 17th Punjab Science Congress- 2014, PTU, Kapurthala
- Session Chair, National Conference on Emerging Principles & Practices in Computers & Communication Media- 2014, SSCET, Badhani.
- Session Chair , DAV National Congress on Science , Technology and Management 2014, DAVIET, Jalandhar
- Session Chair , IMTC15 International Multitrack Congress on Science , Engineering and Technical Innovations, CTIEMT, Jalandhar
- Session Chair , Shannon 100, 3rd International Conference on Computing Sciences , LPU, Punjab
- Session Chair , Stehm-2016, 3rd DAV National Congress, DAVIET, Jalandhar
- Session Chair , ICICS-2016, International Conference on Intelligent Circuits and Systems, LPU, Jalandhar
- Session Chair , ICICS-2018, International Conference on Intelligent Circuits and Systems, LPU, Jalandhar

- Life Member of Indian Society for Technical Education, New Delhi
- Awarded University *Gold Medal* for First Position in M.Tech and Merit Certificate for IInd Position in B.Engg .
- Certified Internal Quality Auditor ISO 9000:2000

## **PUBLICATIONS**

### **BOOKS AUTHORED**

- **Jyoteesh Malhotra**, "Wireless Communication through Fading Dispersive Channels , Lambert Academic Publication , Germany, 2011. (ISBN-10: 38-4433-185-9; ISBN-13: 978-3-8443-3185-1)
- **Jyoteesh Malhotra**, "Consumer Electronics", Satya Prakashan, New Delhi, 2004. (ISBN-10: 81-7684-267-2)
- **Jyoteesh Malhotra**, "Television Engineering", Eagle Prakashan, Jalandhar, 2003.

### **INTERNATIONAL SIGNIFICANT JOURNALS PUBLICATIONS:**

1. "IoMT: A Reliable Cross Layer Protocol for Internet of Multimedia Things," IEEE Internet of Things Journal (ISSN: 1551-9899) Vol.4 No. 03 , pp.832-839, June 2017 [**SCI - IF 9.515**] (**Web of Science**)
2. "Can Sensors Collect Big Data? An Energy Efficient Big Data Gathering Algorithm for WSN," IEEE Transactions on Industrial Informatics (ISSN: 1941-0050) Vol.13 No. 04 , pp.1961-1968, August 2017. [**SCIE - IF 7.377**] (**Web of Science**)
3. "A cross layer protocol for traffic management in Social Internet of Vehicles" Future Generation Computer Systems, Elsevier (ISSN: 2210-6707) Vol. 82, pp. 707–714 August 2017 [**SCIE - IF 5.768**] (**Web of Science**)
4. "A Novel Approach for Smart Cities in Convergence to Wireless Sensor Networks" Sustainable Cities and Society, Elsevier (ISSN: 2210-6707) Vol.35, pp.440-448 August 2017 [**SCIE - IF 4.624**] (**Web of Science**)
5. "Energy efficient chain based routing protocol for underwater wireless sensor networks," Journal of Network and Computer Applications, Elsevier (ISSN: 1084-8045) Vol.92 No. 01, pp.42-50, August 2017. [**SCIE - IF 5.273**] (**Web of Science**)

6. "Energy Efficient Chain based Cooperative Routing Protocol for WSN," Applied Soft Computing, Elsevier (ISSN: 1568-4946) Vol.35, pp. 386–397, July 2015 [**SCIE - IF 4.873**] (**18136**)
7. "Development of high-speed FSO transmission link for the implementation of 5G and Internet of Things" Wireless Networks, Springer (ISSN: 1022-0038) [accepted] Oct. 2019. [**SCIE - IF 2.405**]
8. "5GAuNetS: an autonomous 5G network selection framework for Industry 4.0" *Soft Computing Journal* , Springer (ISSN: 1432-7643) [**SCIE - IF 2.784**] [Accepted] Oct. 2019.
9. "A Novel Scheme for an Energy Efficient Internet of Things Based on Wireless Sensor Networks," Sensors, (ISSN: 1424-8220) Vol.15 , pp. 28603-28626, Oct 2015.[**SCIE - IF 3.031**] (**130124**)
10. "Performance comparison of different modulation schemes in high-speed MDM based Radio over FSO transmission link under the effect of atmospheric turbulence using aperture" Wireless Personal Communications, Springer (ISSN: 0929-6212) [accepted] OCT 2019. [**SCIE - IF 0.929**]
11. "Performance comparison of M-QAM and DQPSK modulation schemes in a  $2 \times 20$  Gbit/s–40 GHz hybrid MDM–OFDM-based radio over FSO transmission system" Photonic Network Communications, Springer (US) (ISSN: 1572-8188) pp 1-12, August 2019. [**SCIE - IF 1.328**]
12. "Modeling and performance analysis of 400 Gbps CO-OFDM based Inter-satellite optical wireless communication (IsOWC) system incorporating polarization division multiplexing with enhanced detection" Wireless Personal Communications, Springer (ISSN: 0929-6212) [accepted] Oct. 2019. [**SCIE - IF 0.929**]
13. "A cost effective 100 Gbps hybrid MDM–OCDMA–FSO transmission system under atmospheric turbulences" Optical and Quantum Electronics, Springer-US (ISSN: 0306-8919) Vol. 49, No. 5, pp. 184, April 2017 [**SCI - IF 1.547**] (**12313**)
14. "Performance Comparison of  $2 \times 20$  Gbit/s-40 GHz OFDM Based RoFSO Transmission Link Incorporating MDM of Hermite Gaussian Modes Using Different Modulation Schemes" Wireless Personal Communications, Springer (ISSN: 0929-6212) [online first] Sept. 2019. [**SCIE - IF 0.929**]
15. "Enhanced performance of 40Gbit/s-80GHz OFDM based radio over FSO transmission link incorporating mode division multiplexing under strong atmospheric turbulence" Optoelectronics And Advanced Materials – Rapid

Communications (ISSN: 1454 – 4164] Vol. 13, No. 7-8, p. 437-447, July-August 2019,. **[SCIE - IF 0.452]**

16. "Performance investigation of high-speed FSO transmission system under the influence of different atmospheric conditions incorporating 3-D orthogonal modulation scheme" *Optical and Quantum Electronics*, Springer-US (ISSN: 0306-8919) August 2019 Vol.51, no. 9, 285 **[I.F 1.547] (12313)**
17. "Long-Reach High-Capacity Hybrid MDM-OFDM-FSO Transmission Link Under the Effect of Atmospheric Turbulence" *Wireless Personal Communications*, Springer (ISSN: 0929-6212) [in Press] April 2019. **[SCIE - IF 1.200]**
18. "Performance comparison of high-speed long-reach mode division multiplexing-based radio over free space optics transmission system using different modulation formats under the effect of atmospheric turbulence" *Optical Engineering*, SPIE (ISSN: 0091-3286) Vol.58, no. 4, 046112 , April 2019. **[SCIE - IF 1.209]**
19. "Energy efficient cognitive body area network (CBAN) using lookup table and energy harvesting" *Journal of Intelligent & Fuzzy Systems*, IOS Press (USA), (ISSN: 2088-8708) [in Press] May 2018. **[SCIE - IF 1.426] (23917)**
20. "An energy balanced QoS based cluster head selection strategy for WSN," *Egyptian Informatics Journal*, Elsevier Publication (ISSN: 1110-8665) Vol.15, No.03, pp. 189–199, November 2014 **[SCIE - IF 2.306]**
21. "ICCBP: Inter Cluster Chain Based Protocol with Cross Layer Interaction for Randomly Deployed Wireless Sensor Networks," *Ad Hoc & Sensor Wireless Networks*, Old City Publishing, USA (ISSN: 1551-9899) Vol.36 No.1-4, pp. 257-284, Dec 2016. **[SCIE - IF 0.753] (19700186738)**
22. "On the Performance Analysis of Wireless Receiver using Generalized-Gamma Fading Model," *annals of telecommunications-Annales des télécommunications*, International journal, Springer (ISSN: 1958-9395), Vol. 64, No 1-2, pp. 147-153, Jan.-Feb. 2009 **SCIE - IF 1.168 (17722)**
23. "On the Performance Analysis of Wireless Receiver in Cascaded Fading Channel," *African Journal of Information & Communication Technology*, an International Journal from University of technology, Sydney, Australia (ISSN: 1449-2679), Vol. 4, No 3, pp. 65 - 72, September 2008.
24. "On the Performance of Rake Receivers for the UWB System in a Realistic Exponential-Lognormal Model," *International Journal of Applied*



- Engineering Research, India (ISSN: 1087-1090), Vol. 3, No10, pp.1287-1302, Oct. 2008. **[Scopus 2008-2017] (21100217234)**
25. "A Novel Approach for Performance Analysis of Wireless Receiver with Selection Combining in Weibull Fading Channel," International Journal of Applied Engineering Research, India (ISSN: 1087-1090), Vol. 4, No 5, pp.819-831, June 2009. **[Scopus 2008-2017] (21100217234)**
  26. "Performance Analysis of Diversity Combining Multichannel Receivers in Generic-Gamma Fading Channels," Tamkang Journal of Science And Engineering, Tamkang University Press, Taiwan (ISSN: 1560-6686) Vol.14, No.4, pp. 333–340, Jan 2011 **[Scopus 1998-] (14086)**
  27. "Investigating the Performance of Single and Multichannel Wireless Receivers in Generic-K Fading Channels," Maejo International Journal of Science and Technology, ISSN 1905-7873, Vol.5, No.1, pp. 96–107, Mar. 2011 **[SCIE - IF 0.469] (19700170618)**
  28. "Investigation of MQAM and MPSK with EGC in Generalized Flat-Fading Channels," Journal of Advances in Information Technology, Academy Publisher, Finland (ISSN:1798-2340) Vol.2, No.4, pp. 250–256, Nov. 2011**[Inspec]**
  29. "Delay Tolerant and Energy Efficient QoS Based Approach for Wireless Sensor Network," International Journal of Systems, Control and Communications, Inderscience Publisher, UK (ISSN: 1755-9340) Vol.06, No.02 pp. 121–135, Jan 2014 **[Scopus 1998-] (21100202715)**
  30. "Error Rate Performance of Binary Modulation through Wireless Body Area Networks," International Journal of Advanced Science and Technology, (ISSN: 2005-4238) Vol.72 , pp.31-36, Dec 2014 **[Scopus ] (21100829147)**
  31. "Pre Deployment Non-Uniform Node Distribution Strategy for Enhancing Network Efficacy in Wireless Sensor Network," International Journal of Wireless and Mobile Computing, Inderscience Publisher, UK (ISSN: 1741-1092) Vol.9, No.01 pp. 49–57, Jan. 2015 **[Scopus 2005-] ( 12100154817)**
  32. "Energy Efficient Chain method for data transmission for lifetime enhancement in Wireless Sensor Network," International Journal of Systems, Control & Communications, Inderscience Publisher, UK (ISSN: 1755-9359) Vol.6, No.04 pp. 332 - 350, Jan 2015**[Scopus 2008-] (21100202715)**
  33. "Simulation Analysis of Tree and Mesh Topologies in Zigbee Network" International Journal of Grid and Distributed Computing, (ISSN: 2005-4262)

- Vol.8, No.01 pp. 81 -92, Feb. 2015 [**Scopus 2015-** ][**ESCI**] (**Web of Science**)(**21100806998**)
34. "Effect of Fading on Performance of VANET in Realistic Scenarios Using NCTUns6.0" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.01 pp. 171–178, Feb. 2015 [**Scopus**] [**ESCI**] (**Web of Science**)(**21100447121**)
  35. "A Review of Latest Techniques to Secure Wireless Networks against ARP Poisoning Attacks" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.02 pp. 225 - 232, April 2015[**Scopus 2015-16**][**ESCI**] (**Web of Science**)(**21100447121**)
  36. "Survey on Empirical Channel Models for WBAN" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.02 pp. 399 - 410, April 2015 [**Scopus 2015-16**][**ESCI**] (**Web of Science**)(**21100447121**)
  37. "A Survey on Rate Adaptation Algorithms for Effective Resource Utilization in LTE Advanced" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.03 pp. 71 - 78, June 2015[**Scopus 2015-16**][**ESCI**] (**Web of Science**)(**21100447121**)
  38. "Performance Evaluation of Channel Estimation Techniques in OFDM based Mobile Wireless System" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.03 pp. 53 - 60, June 2015[**Scopus 2015-16**][**ESCI**] (**Web of Science**)(**21100447121**)
  39. "A Unified Approach to Performance Analysis of Multihop Relay Fading Channels Using Generalized Gamma Model" Frequenz, (ISSN: 0016-1136) Vol.69, No.07-08 pp. 341 - 347, June 2015 [**SCIE - IF 0.595**] (**16718**)
  40. "Investigation of 40 Gbps DWDM Optical System by using Hybrid Optical Amplifier with Different Modulation Formats" International Journal of Signal Processing, Image Processing and Pattern Recognition (ISSN: 2005-4254) Vol.08, No.05 pp. 43 - 48, June 2015 [**Scopus 2015-**] (**21100423922**)
  41. "Performance Evaluation Of Channel Codes For High Data Rate Mobile Wireless Systems" International Journal of Wireless and Microwave Technologies, MECS Publisher, Hong Kong (ISSN: 2076-1449) Vol. 4, pp. 24 - 36 July 2015.
  42. "To Evaluate the Effect of Burst Length on the Performance of Optical Burst Switched Networks" International Journal of Future Generation

- Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.04 pp. 17 - 24, August 2015[**Scopus 2015-16**][**ESCI**] (**Web of Science**)(**21100447121**)
43. "Simulative Investigations for Robust Frequency Estimation Technique in OFDM System" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.04 pp. 187 - 192, August 2015[**Scopus 2015-16**] [**ESCI**] (**Web of Science**)(**21100447121**)
  44. "Review on Security Issues and Attacks in Wireless Sensor Networks" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.04, pp. 81 - 88, August 2015 [**Scopus 2015-16**] [**ESCI**] (**Web of Science**)(**21100447121**)
  45. "Reliable Multicast using Opportunistic Feeding and Inter-batch Coding" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.04 pp. 99 - 110, August 2015 [**Scopus 2015-16**][**ESCI**] (**Web of Science**)(**21100447121**)
  46. "Error Rate Performance Investigations of MIMO Transmission Modes through Nakagami-m Fading Channels" International Journal of Signal Processing, Image Processing and Pattern Recognition, (ISSN: 2005-4254) Vol.8, No.08 pp. 309 - 320, August 2015[**Scopus 2015-**] (**21100423922**)
  47. "Impact Evaluation of Distributed Denial of Service Attacks using NS2" International Journal of Security and Its Applications, (ISSN: 1738-9976) Vol.9, No.08 pp. 303 - 316, August 2015 [**Scopus 2007-2016**] (**21100199112**)
  48. "Transmission Performance of Spectral Amplitude Code Optical Code Division Multiple Access with Using RZ Format" International Journal of Hybrid Information Technology, (ISSN: 1738-9968) Vol.8, No.08 pp. 185 - 190, August 2015. [**Scopus 2014-2016**]( **21100853982**)
  49. "Performance Evaluation of QoS Parameters For Varied Network Overheads For Convergecast Routing In WSN" International Journal of Wireless and Microwave Technologies, MECS Publisher, Hong Kong (ISSN: 2076-1449) Vol.5 pp. 01 - 09, September 2015.
  50. "Performance evaluation of Downlink Non Contiguous Carrier Aggregation in LTE-A" International Journal of Signal Processing, Image Processing and Pattern Recognition, (ISSN: 2005-4254) Vol.8, No.09 pp. 275 - 282, September 2015[**Scopus 2015-**] (**21100423922**)
  51. "Design and Optimization of Rectangular Microstrip Antenna for UWB Applications" International Journal of Signal Processing, Image Processing

- and Pattern Recognition, (ISSN: 2005-4254) Vol.8, No.09 pp. 347 - 352, September 2015 [**Scopus 2015-]** (21100423922)
52. "Performance Evaluation of ADV DSR and God in VANET for City and Highway Scenario," International Journal of Advanced Science and Technology, (ISSN: 2005-4238) Vol.82 , pp.01-10, Sept 2015. [**Scopus**] (21100829147)
  53. "An Integrated Approach to ARP Poisoning and its mitigation using Empirical Paradigm" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.05, pp. 51 - 60, Oct 2015 [**Scopus 2015-16**] [**ESCI**] (**Web of Science**)(21100447121)
  54. "On MIMO Channel Modeling for the Mobile Wireless Systems" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.05, pp. 23 - 38 Oct 2015 [**Scopus 2015-16**] [**ESCI**] (**Web of Science**)(21100447121)
  55. "Performance Evaluation of MAC Aware QOS Provisioned Hybrid Routing over VANET" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857 ) Vol.8, No.05, pp. 107 - 114 Oct 2015 [**Scopus 2015-16**] [**ESCI**] (**Web of Science**)(21100447121)
  56. "Performance Evaluation of AODV and GOD for QoS aware applications through realistic conditions in VANET" International Journal of Computer Network and Information Security, MECS Publisher, Hong Kong (ISSN: 2074-9090) Vol 11, pp 64 – 71 Oct 2015
  57. "Simulative Analysis of 40 Gbps DWDM System under the Impact of Channel Spacing" International Journal of Signal Processing, Image Processing and Pattern Recognition, (ISSN: 2005-4254) Vol.8, No.11 pp. 119 - 126, Nov. 2015 [**Scopus 2015-]** (21100423922)
  58. "Performance Comparison of 8x10Gbps WDM System Using RZ and NRZ Format" International Journal of Signal Processing, Image Processing and Pattern Recognition, (ISSN: 2005-4254) Vol.8, No.11 pp. 159 - 164, Nov. 2015 [**Scopus 2015-]** (21100423922)
  59. "Resource Optimization for the Efficient Channel Access and Estimation in LTE System" International Journal of Image, Graphics and Signal Processing, MECS Publisher, Hong Kong (ISSN: 2074-9074) Vol. 12, pp. 24 - 30 Nov. 2015
  60. "Upper Capacity Bounds Of Mimo Wireless Systems Through Fading Channels" Advances In Electrical And Electronic Engineering, VSB–Technical

University of Ostrava, Czech Republic (ISSN: 1336-1376) Vol.13, No.05 pp. 491–501 Dec 2015.[Scopus 2011-2017] (60241)

61. "Performance Measure Modeling of Routing Protocols In MANET" International Journal of Future Generation Communication and Networking, (ISSN: 2233-7857) Vol.8, No.06 pp. 215 - 228, Dec. 2015[Scopus 2015-16] [ESCI] (Web of Science)(21100447121)
62. "Performance Analysis of Channel Model CM1 & CM2 of Wireless Body Area Networks" International Journal of Advanced Science and Technology, (ISSN: 2005-4238) Vol.85 , pp.43-54, Dec. 2015 [Scopus] (21100829147)
63. "Energy Balanced Optimum Path Determination Based on Graph Theory for Wireless Sensor Network," IET Wireless Sensor Systems, IEEE *Explore* (ISSN: 2043-6386) Vol.5, No.6 pp.290-298, Dec 2015[Scopus 2011-] (19900192119)
64. "Range Free Localization Techniques for Randomly Deployed WSN-A Survey" International Journal of Grid and Distributed Computing, (ISSN: 2005-4262) Vol.8 No. 06 , pp.57-66, Dec. 2015 [Scopus 2015-] [ESCI] (Web of Science)(21100806998)
65. "On the Selection of Physical Layer optimized Network Topologies for the Zigbee Network" International Journal of Information Technology and Computer Science, MECS Publisher, Hong Kong (ISSN: 2074-9007) Vol 8, No.1, pp 84 – 94 Jan 2016.
66. "Comparative Investigation of ARP Poisoning Mitigation Techniques using Standard Testbed for Wireless Networks" Journal of Cyber Security and mobility, River Publishers, Denmark (ISSN 2245-1439) Vol.04, pp. 53–64, Jan 2016 [Scopus 2012-]( 21100781741)
67. "On the Selection of Efficient Back-off with QoS Aware Routing in VANET" International Journal of Future Generation Communication and Networking, SERSC Publisher, (ISSN: 2233-7857) Vol.9, No.02 pp.163 - 176, Feb. 2016[Scopus 2015-16] [ESCI] (Web of Science)(21100447121)
68. "Efficient Localization in WSN Based on Structured Deployment of Anchor Nodes in DV-HOP" International Journal of Future Generation Communication and Networking, SERSC Publisher, (ISSN: 2233-7857) Vol.9, No.03 pp. 155 - 166, March 2016 [Scopus 2015-16][ESCI] (Web of Science)(21100447121)
69. "Performance Analysis of Long Term Evolution: Physical Channels" International Journal of Future Generation Communication and Networking,

- SERSC Publisher, (ISSN: 2233-7857) Vol.9, No.03 pp.269-278, March 2016  
**[Scopus 2015-16][ESCI] (Web of Science)(21100447121)**
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