

## Faculty Profile

## Key Publications:

Name : Dr. Sudesh Pahal

Designation : Associate Professor Qualifications

:Ph.D , M.E, B.E. (ECE) Phone :8588964280

Email :sudeshpahal@msit.in Area of

Interest/Specialization: Communication Systems,  
Machine learning

Experience : 15 years



Photo

1. Sudesh Pahal, Neeru Rathee, “Evaluating uncertainty of measurement while predicting location in smart vehicles”, MAPAN-Journal of Metrology Society of India, Springer, <https://doi.org/10.1007/s12647-021-00458-w> SCI-indexed, 2021.
2. Neeru Rathee, Sudesh Pahal, Dinesh Sheoran” Evaluating the Uncertainty of Classification Caused Due to Image Resizing Techniques for Satellite Image Classification” MAPAN-Journal of Metrology Society of India, Springer, <https://doi.org/10.1007/s12647-021-00456-y> , SCI-indexed, 2021.
3. Sudesh Pahal, Brahmjit Singh, Ashok Arora,” Cross Layer based Dynamic Handover Decision in Heterogeneous Wireless Networks” SCI-indexed, Wireless Personal Communications, Springer, vol. 82, 2015, pp. 1665-1684, ISSN: 0929-6212, <https://doi.org/10.1007/s11277-015-2305-6>.
4. Sudesh Pahal, Brahmjit Singh, Ashok Arora “Cross layer based Fast Handover Algorithm for IEEE 802.16e Networks,” *Optik*, SCI-indexed,Elsevier, vol. 125, 2014, pp. 4108-4112, issn: 0030-4026, <https://doi.org/10.1016/j.ijleo.2014.01.104>.
5. Sudesh Pahal, Brahmjit Singh, Ashok Arora “Cross layer based Handover Mechanism in Mobile WiMAX Networks,” *International Journal of Ad-hoc and Ubiquitous Computing*, SCI-indexed,Inderscience, vol. 19, issue 3, 2015, pp. 133-142, ISSN: 1743-8233, <https://doi.org/10.1504/IJAHUC.2015.070588>.
6. Sudesh Pahal, Brahmjit Singh, Ashok Arora,” A Predictive Handover Initiation Mechanism in Next Generation Wireless Networks,” *WSEAS Transactions on Communications*, Scopus, Vol 12, Issue 6, 2013, pp. 271-281, ISSN: 2224-2864.
7. Sudesh Pahal,” Effect of Velocity on Handover Parameters in Wireless Networks”, *International Journal of Systems, Control and Communications* , Scopus, *Inderscience*, 2017, vol 8, pp. 177-186, ISSN: 1755-9340.

## Papers presented in Conferences:

1. Sudesh Pahal, Vineet Gulia, Nishank Chauhan, Ashish Goel, “Analysis of Handoff factors in Wireless Networks”, *ICCCA-2016*, 29-30 April, 2016, Galgotia University, Noida,pp. 631-636.
2. Sudesh Pahal, Mohit Deswal, Abhishek gupta, “Implementation of prediction algorithms in MIP

- handover”, ICNFESMH 2017, NITTTR Chandigarh, 21<sup>st</sup> May, 2017.
3. Sudesh Pahal, Asha Ohlyan, S.V.A.V. Prasad, Adil Ahmed,”Network Selection using automated version facilitated by user preferences”, March 2017,pp. 4829-4833.
  4. Sudesh Pahal,” Design and Analysis of Double Spurline Bandstop Filters”, ICETEST-2018, MMEC, Mullana, 16-17 Feb, 2018.
  5. Sudesh Pahal, Vaishali, Tripti,” Vehicular Communication using Radio Waves: A step towards Smarter vehicles”, Scopus indexed Int. Conf. RTCAIT 2019, 20<sup>th</sup> April,2019, MMEC Mullana.
  6. Sudesh Pahal,” Miniaturized Microstrip Bandstop Filters with Wider Bandwidth”, Elsevier conf. ICAEECI 2019, 31<sup>st</sup> May-1<sup>st</sup> June 2019, IIIT Allahabad.
  7. Sudesh Pahal, Neeru Rathee,” Investigation of facial expressions for physiological parameter measurement”, 13-14<sup>th</sup> April,2019, ICACM 2019, Springer, Jagannath University, Jaipur.

#### Awards and Recognitions:

1. Awarded with Best Paper Award in conference “ADMET 2021”
2. Awarded with certificate of appreciation from MHRD Innovation cell for conducting activities as Convener, Innovation Cell, MSIT
3. Recognized as Mentor by MHRD Innovation cell for 4 teams across India for nurturing their start up ideas
4. Recognized as Innovation Ambassador by MHRD

#### Patent/Copyright:

1. Title: point to point regression analysis-based big data processing using machine learning
2. ID: 202111017897
3. Date: 21.5.2021

#### Sponsored Project/Consultancy:

1. Received a grant of Rs. 50000/- under the scheme “Unnat Bharat Abhiyan” by MHRD in 2018

#### Book Chapter/Books published:

1. Sudesh Pahal et al.,”Securing Onion Routing against Correlation attack” *Advances in Intelligent Systems and Computing Book Series, Springer, vol. 698, ISBN 978-9-811-31818-4, September 2018.*
2. Sudesh Pahal, Neeru Rathee,” Investigation of facial expressions for physiological parameter measurement” *Advances in Computing and Intelligent Systems*, 297-302, Springer, 2020.
3. Sudesh Pahal, Preeti Sehrawat, “[Image Colorization with Deep Convolutional Neural Networks](#)”, *Advances in Communication and Computational Technology*, 45-56, Springer 2020

Ph.D Supervised: NA

Memberships of Professional bodies: ISTE

Other Contributions: