CURRICULUM VITAE

Hari Kumar Singh, PhD
Member -ISDS Japan, IRED USA, IAENG Taiwan
Member IMRF and InSc, India
Assistant Professor
Department of Electronics and Communication
Faculty of Engineering and Technology
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ACADEMIC IDENTITY	
EMPLOYEE ID	DM-127
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PUBLONS ID	AAZ-5278-2021
GOOGLE SCHOLAR ID	KOcUcD4AAAAJ
ADHAR UID INDIA	4372-6897-5103

EDUCATION

Ph.D degree
❖ Electronics and Communication Engineering, IFTM University, Moradabad (U.P.) India in field of Digital Image Processing Topic of research entitled Remote Sensing Satellite Data Analysis Applied to Precision Agriculture Modeling in year 2017

Master degree
❖ Master of Technology in Electronics and Communication Engineering from National Institute of Technology, Kurukshetra (HR) India with 67.8% in year 2002

Bachelor degree
❖ Bachelor of Technology in Electronics and Communication Engineering from F.E.T, M J P Rohilkhand University, Bareilly (U.P.) India with 6.01/10 DGPA in year 2000

PROFESSIONAL DETAILS (20 YEARS ACADEMIC/RESEARCH EXPERIENCE)

Present
❖ Working as Assistant Professor (AGP-8000) in Department of Electronics and Communication Engineering. Faculty of Engineering and Technology, MJP Rohilkhand University, Bareilly (UP) From Aug 28th 2008 to till date.

Past
❖ Worked as Assistant Professor in Department of Electronics Communication Engineering. College of Engineering and Rural Technology, Meerut Since 1st Aug 2006 to 20 Aug 2008.
❖ Worked as Sr. Lecturer faculty in Electronics & Communication Engineering Department. Radha Govind Engineering College, Meerut (UP) From July19th 2005to30 June 2006.
❖ Worked as Lecturer guest faculty in Electronics & Communication Engineering Department. Institute of Engineering and Technology, MJP Rohilkhand University, Bareilly (UP) From July16th 2003 to July18th 2005.
❖ Worked as Lecturer in Electronics & Communication Engineering Department. Shri Krishan Institute of Engineering and Technology, Kurukshetra (HR) from 23 July 2001 to 30 June 2003.
❖ Worked as Instructor in Industrial Training, which includes VHDL and Digital Hardware Design at National Institute of Technology, Kurukshetra (HR) during 2001-2002 sessions.

FIELD OF INTEREST
❖ Digital Image Processing
❖ Digital System Design
❖ Mobile Communication
❖ Artificial Neural Network
❖ Remote Sensing

RESEARCH PROJECTS/AWARDS/PATENTS/ APPROVED RESEARCH SUPERVISOR
❖ Research Excellence Award-2022 by Institute of Scholars (InSc) International Publisher, 2nd Cross, 7th Block, Sir M V Layout, Muddhinapalya, Bengaluru-560091, Karnataka, India.
❖ Best Scientist Award 2021 in Digital Image Processing, IMRF Institute of Higher Education and Research Campus, Vijayawada, India, International, for Year-2021
❖ Research Project from Ministry of Science and Technology Govt of India GIS aided strengthening of SC individuals by creating Backward and Forward Markets Linkages with reference to Pune Region Registration No.-TPN/70608 Amount -1.135Cr 3Years Co-Investigator Registered-2021
❖ Collaborative Research Project with Mentor Institute. TEQIP/418/40/183.2020 TEQIP-III of Amount 4Lakhs Duration-2 Years from 2019 to 2021 Research Project completed as Principal Investigator
❖ Co-Principal Investigator "Energy Efficient Optical Wireless Communication System for Rural Development of India" UP State University Grant for Research and development. (In Process)
❖ Principal Investigator "Wireless Sensor Network Antenna Design for Agriculture Image Analysis and Crop Yield Improvement" UP State University Grant for Research and development. (In Process)
❖ Co-Principal Investigator "Business modeling and prototype of electric vehicle for Rural India" Science and Engineering Research Board, Department of Science and Technology, Government of India 2022 (In Process)

- ❖ Patent Published on Machine Learning and IOT Based System for incorrect Posture Detection No 202121037944A in 2021
- ❖ Patent Published on Machine Learning Based Method of Communicating a digital Message with an information Signal No 202211000067 in 2022
- ❖ Patent Published on Artificial Intelligence in prediction of Bitcoin Fluctuations No 202211014664A in 2022
- ❖ Patent Published on IoT, Artificial Intelligence based on-line defect recognition in additive manufacturing using image processing in 2022 (Communicated)
- ❖ Patent Published on A system and method for secure remote communication using WSN based on blockchain technology in 2022 (Communicated)
- ❖ Patent Published on An IoT- based school security system that utilizes GSM and microcontroller and is powered by the Internet of things (IoT) in 2022 (Communicated)
- ❖ Presently Approved Research Supervisor for IFTM University UP, Shri Venkateshwara University UP, Nirwan University Rajasthan and MJP Rohilkhand University Bareilly U.P

SCHOLARLY PROFESSIONAL ACTIVITIES
Worked

1. Worked as Organizing Secretary in conducting TEQIP-III sponsored International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT-2020) during 01/02/2020 to 03/02/2020 at FET MJP Rohilkhand University, Bareilly, U.P.
2. Worked as Member Organizing committee in conducting TEQIP-III sponsored workshop on Project Based Learning using MATLAB and SIMULINK during 15/02/2019 to 16/02/2019 at ECE Department, FET MJP Rohilkhand University, Bareilly, U.P. India
3. Worked as Workshop Coordinator in conducting TEQIP-III Workshop on RTL using Verilog during 19/10/2019 to 20/10/2019 at ECE Department, FET MJP Rohilkhand University, Bareilly, U.P. India
4. Worked as Organizing Secretary in conducting TEQIP-III sponsored International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT-2018) during 17/02/2018 to 19/02/2018 at FET MJP Rohilkhand University, Bareilly, U.P.
5. Delivered Series of Lectures on Digital Image Processing and Mobile Communication in Year 2012 Sequential M. Tech Course in Department of Electronics and Communication at B.T. Kumaon Institute of Technology Dwarahat, Uttarakhand Technical University, Dehradun, India
6. Invited Talk on Different image processing algorithms to optimize agriculture yield in National Conference on Recent advances in science and Technology August 22-23, 2015 held at Seemant Institute of Technology, Pithoragarh, Uttarakhand, India
7. Chaired session of paper presentation in field of Electrical and Electronics Engineering in National Conference on Recent advances in science and Technology August 22-23, 2015 held at Seemant Institute of Technology, Pithoragarh, Uttarakhand, India
8. Invited Talk on Problems and Remedies on job related issues of Engineering Students in National Conference on Recent advances in science and Technology 2016 held at Seemant Institute of Technology, Pithoragarh, Uttarakhand, India
9. Chaired session of paper presentation in field of Electrical and Electronics Engineering in National Conference on Recent advances in science and Technology 2016 held at Seemant Institute of Technology, Pithoragarh, Uttarakhand, India
10. Worked as Co-coordinator in conducting Faculty Development Program on Environmental Impact Assessment during 26/03/2015 to 28/03/2015 at Department of Chemical Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
11. Worked as TPC Member in conducting IEEE sponsored International Conference on Advances in Computing, Communication and Automation (FALL) during 30/09/2016 to 01/10/2016 at FET MJP Rohilkhand University, Bareilly, U.P. India
12. Worked as Member Organizing Committee in conducting TEQIP-II sponsored International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT-2016) during 09/12/2016 to 11/12/2016 at FET MJP Rohilkhand University, Bareilly, U.P.
13. Worked as Member Organizing Committee in conducting TEQIP-II sponsored in association with IEEE International Symposium on Internet of Things: Smart Innovation and Usages during 22/04/2016 to 23/04/2016 at FET MJP Rohilkhand University, Bareilly, U.P. India
14. Worked as Member Organizing Committee in conducting TEQIP-II sponsored International Conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT-2015) during 21/02/2015 to 23/02/2015 at FET MJP Rohilkhand University, Bareilly, U.P.
15. Worked as a Member of Organizing Committee in National conference on Recants trends in Engineering and Technology (SAET-2012), 17, Feb, 2012 MJP Rohilkhand University, Bareilly.

Participated

1. Participated in UGC Sponsored 34th Orientation Programme from June 05, 2018 to July 02, 2018 at HRD Centre, University of North Bengal, West Bengal, India
2. One Week Workshop on Photonics Sensor for Chemical and Gas Detection IIT(ISM) Dhanbad, Jharkhand from 18/10/2021 to 23/10/2021
3. Participated in TEQIP-III Sponsored Online Two -Week International FDP on Multidisciplinary Research Innovation in Engineering, Science and Technology for Sustainable Development, from October 26- November 7, 2020, Organised by BTKIET Dwarahat Almora U.K, India

4. Participated in TEQIP-III Sponsored Online FDP on Advanced Research Trends in Artificial Intelligence, Pattern Recognition and Image Processing, from September 25-30, 2020, Organised by BTKIET Dwarahat Almora U.K, India
5. Participated in Online FDP on Python Programming, from 29June to 03July, 2020, Organised by R D Engineering College, Ghaziabad U.P, India
6. Participated in TEQIP-III sponsored Faculty Development Program on Green Chemistry during 25/02/2020 to 29/02/2020 at Department of Chemical Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
7. Participated in TEQIP-III sponsored Workshop on Youth Empowerment Through Skill Development during 09/04/2018 at Department of Mechanical Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
8. Participated in TEQIP-III sponsored Workshop on Water Quality Monitoring, Network Design, Sampling, Analysis, and Quality Assurance during 27/03/2017 to 31/03/2017 at Department of Chemical Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
9. Participated in Faculty development program entitled "Entrepreneurship" 02-08 Jan, 2018 held at MJPRU Bareilly, organized by ABES Engineering College Ghaziabad, supported by NSTEDB Department of Science and Technology Government. of India
10. Participated in TEQIP-II sponsored Faculty Development Program on Innovative Research on Materials in Science And Engineering during 17/04/2016 to 22/04/2016 at FET MJP Rohilkhand University, Bareilly, U.P. India
11. Participated in TEQIP-II sponsored Faculty Development Program on Municipal Solid Waste Management during 07/12/2016 to 11/12/2016 at Department of Chemical Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
12. Participated in TEQIP-II sponsored Faculty Development Program on Microwave and Wireless Communication during 29/03/2016 to 03/04/2016 at Department of Electronics and Communication Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
13. Participated in TEQIP-II sponsored Symposium on Wavelet and Its Application in Engineering Problems during 20/12/2015 to 21/12/2015 at Department of Electronics and Communication Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
14. Participated in TEQIP-II sponsored Workshop on Water Quality Monitoring, Network Design, Sampling Analysis and Quality Assurances during 26/03/2015 to 28/03/2015 at Department of Chemical Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
15. Participated in TEQIP-II sponsored Faculty Development Program on Environmental Impact Assessment during 26/03/2015 to 28/03/2015 at Department of Chemical Engineering, FET MJP Rohilkhand University, Bareilly, U.P. India
16. Participated in TEQIP-II sponsored Faculty Development Program on Frontier Area of Research in Mechanical Engineering during 25/03/2014 to 29/03/2014 at FET MJP Rohilkhand University, Bareilly, U.P. India
17. Participated in Faculty Development Program on Matlab and Simulink Programming 04/02/2014 to 08/02/2014 Organized by Department of CSIT, FET MJP Rohilkhand University, Bareilly in association with NIEIT, Gorakhpur, U.P. India
18. Participated in NITTTR Chandigarh AICTE recognized Short Term Course on Microcontroller Based Embedded System Through ICT from 06/01/2014 to 10/01/2014 Organized by NITTTR Chandigarh at Department of Electrical Engineering at R.D. Engineering College Ghaziabad UP
19. Participated in AICTE recognized Short Term Course on VLSI Through ICT from 10/03/2014 to 14/03/2014 Organized by NITTTR Chandigarh at R.D. Engineering College Ghaziabad U.P., India
20. Faculty Development Programme on Research Techniques Organised by SBSSTC Ferozepur Punjab 25/05/2015 to 05/06/2015 (Two Weeks) Sponsored by AICTE- TEQIP
21. Faculty Development Programme on Entrepreneurship Organised by Moradabad Institute of Technology 04/09/2014 to 10/09/2014 (One Week) Sponsored by AICTE Sponsored
22. Faculty Development Program on Natural Inspired Computational Intelligence SBSSTC Ferozepur Punjab 06/05/2013 to 17/05/2013 (Two Weeks) Sponsored by AICTE- TEQIP
23. Faculty Development Program on Parallel and Distributed Computing Organised by M. J. P. Rohilkhand University, Bareilly of One Week 15/02/2012 to 19/02/2012
24. Faculty Development Program on MATLAB with Hands on Lab Exercise Organised by M. J. P. Rohilkhand University, Bareilly 15/06/2009 to 28/06/2009 (Two Weeks) Sponsored by APTRON Net-experts Educational Services New Delhi
25. Staff Development Programme on Embedded System and VLSI in Robotics. Organised by DAV I.E.T. Jalandhar Punjab 12/07/2010 to 23/07/2010 (Two Weeks) Sponsored by AICTE New Delhi
26. National Workshop on Communication Skills for Change Management in Classrooms Organised by M. J. P. Rohilkhand University, Bareilly 9/12/2013 to 14/12/2013 (One Week) Sponsored by TEQIP-II
27. Faculty Development Program on The Environmental (Protection) ACT,1986 Chemical Engineering Department, M. J. P. Rohilkhand University, Bareilly 04/04/2011 to 19/04/2011 (One week) Sponsored by M. J. P. Rohilkhand University, Bareilly
28. Participated in Faculty Development Program on Parallel and Distributed Computing during 5/02/2012 to 19/02/2012 Organized by Department of CS and IT, FET MJP Rohilkhand University, Bareilly U.P. India
29. Participated in Short Term Course on Image Processing from 31/01/2005 to 04/01/2005 Organized by NITTTR Chandigarh, India
30. Participated in Short Term Course on Remote Sensing and GIS Application with special Emphasis to infrastructure Planning from 06/06/2005 to 10/06/2005 Organized by Indian Institute of Technology, Roorkee Uttarakhand, India

MEMBERSHIP OF PROFESSIONAL SOCIETIES

Overseas

1. Senior Member Institute of Research Engineers and Doctors (IRED) Headquarters- 42 Broadway, Suite 12-217, New York, NY 10004, USA
2. Member of International Association of Engineers (IAENG) is registered at National Taiwan University, Taiwan
3. Member of International Society for Development and Sustainability (ISDS) is registered with Japanese Government as a private organization, JAPAN
4. Member of International Multidisciplinary Research Foundation (IMRF) Head Quarter Vijaywada, Andhra Pradesh, India (ID No. 21176)

Indian

1. Associate Member of Institution of Electronics and Telecommunication Engineers (AM-174411) since 15th, Dec 2004 at New Delhi, INDIA
2. Associate Member of Metrology Society of India (LAM-142) since 20th, Nov 2005 at New Delhi, INDIA
3. Associate Member of I.S.T.E (AM-63491) at New Delhi
4. Professional Life Member Institute of Scholars (InSc) 2nd Cross, 7th Block, Sir M V Layout, Muddhinapalya, Bengaluru-560091, Karnataka, India

Ph.D/M.TECH. SUPERVISIONS

1. Mr. Vivek Kumar, Lecturer, Electronics Engineering, Government Polytechnique is Pursuing his PhD Degree in Field of Antenna on Topic **"Vivaldi Antenna in Electronic Warfare Application"** in my Guidance from IFTM University, Moradabad, U.P. (2020)
2. Mr Ravindra Pratap Singh, Assistant Professor, Department of Electronics and Communication Engineering, B.T.K.I.T Dwarahat Almora, Uttarakhand is Pursuing his PhD Degree in Field of Wireless Communication on Topic **"Application of Machine Learning to Wireless Sensor Networks"** in my Supervision from SHRI VENKATESHWARA University, Gajraula, Amroha, U.P. (2020)
3. Supervision of M.Tech. Dissertation, 2008 in field of Digital Image Processing for Mr. R.P.Singh National Institute of Technology, Uttrakhand.
4. Supervision of M.Tech. Dissertation, 2008 in field of Digital Image Processing for Mr. Neeraj Tiwari National Institute of Technology, Uttrakhand
5. Supervision of M.Tech. Dissertation, 2013 in field of Antenna and Microwave for Mr. Deepak Yadav, Uttranchal Technical University, Uttrakhand.
6. Supervision of M.Tech. Dissertation, 2014 in field of Digital Image Processing for Ms. Pooja Singh, Uttranchal Technical University, Uttrakhand.

ADMINISTRATIVE RESPONSIBILITIES

1. Co-coordinator Remedial Coaching classes for SC/ST students for MJP Rohilkhand University Funded by UGC, New Delhi
2. Member Purchase committee TEQIP-II World Bank Project, Ministry of HRD, Government of India, New Delhi (2013-2016)
3. Member Purchase committee TEQIP-III World Bank Project Ministry of HRD, Government of India, New Delhi (2017-2020)
4. Student Advisor for Department of Electronics and Communication Engineering for UG Students

AUTHORED BOOKS /EDITED BOOKS

1. Differential Amplifiers and Linear Integrated Circuits ISBN-978-939-15228-41, Walnut Publication International Publisher, 2021
2. Smart Agriculture Modelling through Image Processing and Remote Sensing Technology, ISBN-978-939-15228-58, Walnut Publication, International Publisher, 2021
3. IoT in Multidimensional Approach, ISBN- 978-195-61027-89, INSC International Publisher International Publisher, 2021
4. Editor of Academic Research in Engineering, Management and Information Technology-2020 ISBN- 978-81-933433-9-5, Anukrati Prakashan, Bareilly
5. Editor of Academic Research in Engineering, Management and Information Technology-2019 ISBN- 978-81-933433-5-7, Anukrati Prakashan, Bareilly
6. Editor of Academic Research in Engineering, Management and Information Technology-2018 ISBN- 978-93-82972-27-3, Niharikanjali Publication Kanpur
7. Editor of Academic Research in Engineering, Management and Information Technology-2016 ISBN- 978-93-82972-19-8, Niharikanjali Publication Kanpur
8. Editor of National Conference Proceedings of Advancements in Engineering Materials-2016 ISBN- 978-93-82972-12-9, Niharikanjali Publication Kanpur
9. Editor of Academic Research in Engineering, Management and Information Technology-2015 held at MJP Rohilkhand University, Bareilly
10. Editor of National Conference Proceedings of Software Applications in Engineering and Technology-2012 held at MJP Rohilkhand University, Bareilly, ISBN- 978-81-921124-7-3, Published by Niharikanjali Publication Kanpur

RESEARCH PUBLICATIONS

Science Citation Index (SCI)/ Science Citation Index Expanded (SCIE)/Book Chapters

1. Motilal Rinawa, Prashant Chauhan, Sintu Kumar, Manoj Kumar Singh, Hari Kumar Singh, Amit Sharma and R. P. Sharma "Field Localization and Density Cavitation in Low-Beta Plasmas" Hindawi, Laser and Particle Beams, Volume -2021, Article ID 2891080, 9Pages, **https://doi.org/10.1155/2021/2891080.** Impact Factor1.160

2. Kumar Sujit, Dave Vikramaditya, K. Vetri Velmurugan, Yakkala Bhaskarrao, Rupali Singh, Bhasker Pant, Amit Kumar Sharma, Hari Kumar Singh, and Lijalem Mulugeta "Analysis of Structural, optical and aquaphobic properties of zirconium oxide Neno-films by varying sputtering gas" Hindawi, Advances in Materials Science and Engineering, Volume- 2022 Article ID 9968485, 7Pages, **https://doi.org/10.1155/2022/9968485**. ISSN: 1687-8442 Impact Factor1.726

3. Inderpreet Kaur, Hari Kumar Singh and Tejasvini Thakral "Wireless Body Area Network Antenna" Book Chapter Published in Wearable and Neuronic Antennas for Medical and Wireless Applications ISBN: 9781119791805 Pages-261 Year-2022 **https://doi.org/10.1002/9781119792581.ch4** Scrivener Publishing and John Wiley & Sons, Inc., 111 River Street, Hoboken, NJ 07030, USA

4. Inderpreet Kaur, Hari Kumar Singh, Sanjeev Sharma, Navneet Singh, Yash Bhardwaj " MIMO Antenna for IoT and ISM Band Applications" Book Chapter in Advances of 5G Wireless Communication System in Healthcare Informatics in CRC Press, Taylor and Francis USA (In Press)

Scopus indexed/Web of Science journals

1. Moti Lal Rinawa, Prashant Chauhan, Rajneesh Sharma, Amarjeet Poonia, Hari Kumar Singh, Amit Kumar Sharma and Ram Subbiah, Numerical Investigation of Modified Fin Shapes for the Improved Heat Transfer, in Journal of Materials Today: Proceedings, ISSN: 1369-7021, 2022, https://doi.org/10.1016/j.matpr.2022.01.007

2. CH. Mohammad Akram, G. Saritha, Arvind Sharma, Hari Kumar Singh, Moti Lal Rinawa and S. Ashwin Kannan "Improving the yield of a solar still with the aid of an evacuated tube" ISSN:1742-6596, IOP Science (Communicated)

3. Rajneesh Sharma, Prashant Chauhan, Amit Kumar Sharma, Atul Katiyar, Hari Kumar Singh, Moti Lal Rinawa, and P. Manoj Kumar, Characterization of ZnO/nanofluid for Improving Heat Transfer in Thermal Systems in Journal of Materials Today: Proceedings, ISSN: 1369-7021, 2022, https://doi.org/10.1016/j.matpr.2022.01.107

4. Dr. Sudhakar M, Moti Lal Rinawa; Prashant Chauhan; Amit Kumar Sharma; Hari Kumar Singh; Ankit and M. S Karuna, An investigation on synthesis, aggregation, and mechanical properties of Al 6082 nanocomposites reinforced by Titanium Carbide, in Journal of Materials Today: Proceedings, ISSN: 1369-7021, 2021 DOI: 10.1016/j.matpr.2022.01.406

5. Moti Lal Rinawa, Prashant Chauhan, Amit Kumar Sharma, Hari Kumar Singh, Ankit and M. S Karuna, Water Absorption Studies of Pineapple Leaf Fiber/Nano Rice Husk Powder Reinforced Epoxy Matrix Hybrid Composites in Journal of Materials Today: Proceedings, ISSN: 1369-7021, 2021 DOI: 10.1016/j.matpr.2022.01.279

6. Manoj Kumar Singh, Mohammed Nadeem Khalid, Vivek Schaan, O. P. Upadhyay, Hari Kumar Singh, Motilal Rinawa, M. S. Karuna "Identification and Prioritization of Properties for Composite Materials Usage in Automobiles: An Analytical Hierarchical Process (AHP) Approach" Published in Journal of Design Engineering, Vol 2021 Issue 7 | Pages: 12751 -12764, ISSN 0011-9342 Scopus IP-1.41Aug2021

7. Hari Kumar Singh, Pooja Singh "Comparative Study of Enhancement Techniques on Different Types of Images" Published in Efflatonia multidisciplinary Journal, PP2390-2402 Volume: 5 Issue 2 ISSN-1110 8703, Web of Science, IF-3.8 March2021

8. Hari Kumar Singh, Manoj Kumar Singh "Smart Farming Technologies in Agriculture in India" International Journal of Modern Agriculture, Volume 10, No.2, 2021 ISSN-2305-7246 Web of Science, PP4795 – 4803, IF-0.12, June2021

9. Hari Kumar Singh, Pooja Singh, Sanjeev Sharma "Study and Design Noise Cancellation System using Anti-Noise Technique" Vidyabharti International Interdisciplinary Research Journal pp2319-7949, Web of Science, IF-1.469, Oct 2021

10. Yatendra Kumar, Hari Kumar Singh, Atul Katiyar "Compact CP Monopole Antenna with asymmetrical Modified Ground Plane for Wideband Characteristics" Published in Journal of Design Engineering Vol 2021, Issue 7 | Pages 14133-14144 ISSN 0011-9342, Scopus IF-1.41 Aug2021

11. Inderpreet Kaur, Hari Kumar Singh, Pooja Singh, Sanjeev Sharma "Next Generation Antenna: Large scale antenna for Mobile Communication" Published in Turkish Journal of Computer and Mathematics Education Volume11 No2 PP816-828, ISSN1309-4653, Scopus, IF-0.33, Sep 2020

12. Yogini Dilip Borole, Subash Ranjan Kabat, Arvind Sharma, Hari Kumar Singh, Ashwini Sharma, Nemi Chand Singh "Artificial Neural Network based Advanced Algorithm for new Generation Solar PV Systems" Published in Journal of Nuclear Energy and Power Generation Technology ISSN-23259809, Scopus IF-0.54, 2021

13. Anurag Srivastava, Hari Kumar Singh, Praful Vijay Nandankar, Ankit, Prateek Nigam, Motilal Rinawa "A smart Grid Energy Management Optimization Technique" Published in Journal of Nuclear Energy and Power Generation Technology ISSN-23259809, Scopus IF-0.54, 2021

14. Hari Kumar Singh, Sanjeev Sharma, Pooja Singh, Shiv Kumar Tomar "Remote Sensing Satellite Data Analysis applied to precision Agriculture Modeling" published in TEST Engineering and Management, January-February 2020 Volume-82, ISSN: 0193-4120 Page No. 15727- 15742

15. Sanjeev Sharma, Hari Kumar Singh, Shiv Kumar Tomar "Application of Remote Sensing and Image Processing for Efficient Urban Planning in India" published in TEST Engineering and Management, January-February 2020 Volume-82, ISSN: 0193-4120 Page No. 15320 - 15329

16. Atul Katiyar, Ajay Yadav, Hari Kumar Singh (2018) Model Predictive Control Design for SISO LTI system subjected to bounded constraints Published in Turkish Journal of Computer and Mathematics Education Volume9- No1 ISSN1309-4653, PP170-180, Scopus IF-0.33 April2018

17. Hari Kumar Singh, Ajay Yadav, Atul Katiyar (2018) Analysis of Remote Sensed Data Using Neuro- Fuzzy Algorithm: A Case Study of Hyderabad Region Published in Turkish Journal of Computer and Mathematics education Volume9- No1 ISSN1309-4653 PP 181-190, Scopus IF-0.33 April2018

Other Journals

1. Hari Kumar Singh, Dr. Shiv Kumar Tomar (2016) Technical Paper entitled "Analysis of Remote Sensed Data using Different Image Processing Algorithms applied to Agriculture Yield Optimization Model: A Case Study of Bareilly Region" Published in International Journal of Advance Foundation and Research in Computer (IJAFRC), Volume 2, Issue 9, September - 2015. ISSN 2348 – 4853, Impact Factor – 1.317

2. Pammi kumara, Ravindra Kumar Gautam, Hari Kumar Singh, Santosh kumar, Dr. Mayank Kumar Saran and R. P. Singh (2015) "Analysis of Dead Tissues in Medical Images Using Edge Detection Techniques", IJEEE, Volume 07, Issue 01, Jan- June 2015. Page-72

3. Hari Kumar Singh, Dr. S. K. Tomar, and Pooja Singh (2015), Technical Paper entitled "Application of Discrete Fourier Transform on Multispectral Image of Bareilly Region", Proceeding of International Journal of Advance Research in Science and Engineering, (IJARSE-2015), Vol. No. 4, Special Issue (01), ISSN-2319-8354(E), PP-100-104,

4. Pammi Kumari, Santosh Kumar, Hari Kumar Singh, Jeet Singh and Shiv Kumar (2014) "Detection of Dead Tissues by Medical Image Using Clustering" in International Journal of Computer Science and Mobile Computing, Vol. 3, Issue. 12, December 2014, pg.197 – 201

5. Pammi Kumari and Hari Kumar Singh (2014) "Analysis of Remote Sensed Data Using Nero-Fuzzy Intelligence System: A Case Study of Shimla Region" in international journal of Research Fellow for Engineering, ISSN-2320-7396, July 2014.

6. Pammi kumari, Santosh kumar, Hari Kumar Singh and Jeet Singh "Detection of Dead tissues in Medical Images Using Image Segmentation" in International Journal of Advanced Research in Electronics and Communication Engineering (IJARECE) Volume 3, Issue 11, 2014 page1685-1688

7. Pammi kumari Ravindra Kumar Gautam, Hari Kumar Singh, Mridul Saran and Santosh Kumar (2014) "Study and Analysis of Segmentation for Medical Images Based on K-means and Fuzzy c-means Clustering" in International Journal of Computer Science and Mobile Computing, Vol. 3, Issue. 12, 2014

8. Prerna, Jitendra Nath Shrivastva and Hari Kumar Singh "Urban Planning through Remotely Sensed Data Using Digital Image Processing: A Case Study of Bareilly Region" in Journal of Basic and Applied Engineering Research, ISSN: 2350-0255; Volume 1, Number 7; October, 2014 pp. 43-48

9. Hari Kumar Singh, S. K. Tomar, Prashant Kr Maurya, "Thresholding Techniques Applied for Segmentation of RGB and Multispectral Images" Proceeding of International Journal of Computer Applications, IJCA solicits research papers for the April 2012 Edition.

10. Hari Kumar Singh, Pooja Singh and Dr. S. K. Tomar (2013), Technical Paper entitled "Analysis of Multispectral Image using Discrete Wavelet Transform", in proceeding of IEEE Xplore, 2013, ISSN-2337-0632, PP-59-62.

11. Hari Kumar Singh, Prashant Kr Maurya, Khushboo Singh, Pooja Singh (2012) Technical Paper entitled "Discrete Cosine transform And Discrete Fourier Transform of RGB image" in Proceeding of International Journal of Computer Applications, USA solicits research papers for the June 2012 Edition.

12. Hari Kumar Singh, Pooja Singh and Khushboo Singh (2012) Technical Paper entitled "Morphological Segmentation and Gradient of Multispectral Image of Bareilly Region" Proceeding of International Journal of Computer Applications Journal, July 2012, published by foundation of C.S, NEW York, USA.

13. Hari Kumar Singh, Prashant Kr Maurya, Khushboo Singh, Pooja Singh (2012) "Analysis of Remote Sensed Data Using Hybrid Intelligence System: A Case Study of Bhopal Region" Proceeding of International Journal of Computer Applications, IJCA, USA May 2012

International Conferences

1. Hari Kumar Singh, Technical Paper entitled "Comparative Study of Image Compression using Discrete Cosine Transform, Singular Value Decomposition and Discrete Wavelet Transform Techniques", Proceeding of International conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT-2020), ISBN No. ISBN 978-81-933433-9-5 sponsored by IEEE, 01-03 February, 2020, MJP Rohilkhand University, Bareilly.

2. Technical Paper entitled "Remote Sensing Satellite Data Analysis applied to precision Agriculture Modeling" Paper Presented Paper ID-ICEECS_MD7HQ8 International Conference ICEES-2020 UNSIET Deokali U.P. 2020

3. Technical Paper entitled "Application of Remote Sensing and image Processing for Efficient Urban Planning in India" Paper Presented Paper ID-ICEECS_MD7HQ7 International Conference ICEES-2020 UNSIET Deokali U.P. 2020

4. Technical Paper entitled "WSN-IoT Clustering for secure Data Transmission in E-Health Sector using Green Computing Strategy" Published in IEEE Explore, International Conference (Indonesia) CITSM2021 Potensi Utama University 2021

5. Technical Paper entitled "Intelligent Controlled Electronic Speech Supporting Device for Dumbed Pharmacy Sales Person" Published in IEEE Explore International Conference (Indonesia) CITSM2021 Potensi Utama University 2021

6. Technical Paper entitled "Comparative Study of RGB And Multispectral Image Using Image Enhancement Technique", Proceeding of International conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT-2016), ISBN No. 978-93-82972-19-8 sponsored by IEEE, 09-11 Dec, 2016, MJP Rohilkhand University, Bareilly.

7. Technical Paper entitled "Fuzzy C-Means Clustering Algorithm for Analysis of Euclidean Space of Clusters", Proceeding of International conference on Academic Research in Engineering, Management and Information Technology (ICAREMIT-2016), ISBN No. 978-93-82972-19-8 sponsored by IEEE, 09-11 Dec, 2016, pp 303-308, MJP Rohilkhand University, Bareilly

8. Participated in International Seminar on Recent Trends in Material Science-2013 21/11/2013 Organized by Department of Physics, MJP Rohilkhand University, Bareilly.
9. Technical Paper entitled "Analysis of Remote Sensed Data Using Neuro- Fuzzy Algorithm: A Case Study of Bareilly Region", Proceeding of International conference on innovations and advancements in information and communication technology (ICIAICT-2012), 30-31march, 2012, PP-180-189. Greater Noida.
10. Technical Paper entitled "Delay and Velocity Meter Using Sonic Waves" International Conference on Production and Industrial Engineering (CPIE-2007), March22-24, 2007 NIT, Jalandhar, Punjab.
11. Technical Paper entitled "Mobile Agent: Potential Solution to Network Problems." An international conference on Interdisciplinary Approach in Physical sciences. December 29-30, 2005 at Meerut

National Conferences

1. Technical Paper entitled "Morphological Segmentation and Directional Gradient of Hyderabad region", Proceeding of National conference on Advancements in Engineering Material (NCAEM-2016), 24-25 Feb, 2016, PP-101-105, ISBN No. 978-93-82972-12-9, organized by Department of Mechanical Engineering, F.E.T MJP Rohilkhand University, Bareilly.
2. Technical Paper entitled "Image Processing Application in Agriculture and Urban Planning", Proceeding of National conference on Recent Advance in Science and Technology (NCRAST-2015), 29-30 Aug, 2016, organized by Seemant Institute of Technology, Pithoragarh, Uttarakhand.
3. Technical Paper entitled "Analysis of Remote Sensed Data using Neuro- Fuzzy Algorithm: A Case Study of Haridwar Region", Proceeding of National conference on Recent Advance in Science and Technology (NCRAST-2015), 22-23 Aug 2015, PP 403-415, organized by Seemant Institute of Technology, Pithoragarh.
4. Presented Technical Paper on "Power Distribution strategies in Co-operative communication" Proceeding of conference on Advances in electronics and communication Technology (AECT-2013), 02/03/2013 Shri Ram Murti Smarak College of Engineering and Technology, Bareilly
5. Technical Paper entitled "Analysis of Satellite Image Data using Artificial Neural Network", Proceeding of conference on Software Applications in Engineering and Technology (SAET-2012), 17, Feb, 2012 MJP Rohilkhand University, Bareilly.
6. Presented Technical Paper on "Analysis of Satellite Image Data using NDVI", Proceeding of conference on Software applications in Engineering and Technology (SAET-2012), 17, Feb, 2012 MJP Rohilkhand University, Bareilly.
7. Presented Technical Paper on "Optimizing Satellite Communications with Adaptive and Phased Array" Antennas," Proceeding of conference on Software applications in Engineering and Technology (SAET-2012), 17, Feb, 2012 MJP Rohilkhand University, Bareilly.
8. Presented Technical Paper on "Analysis of Multispectral Image Using Discrete Wavelet Transform" Proceeding of conference on Emerging Technology and System Design (ETSD-2012), 15, April, 2012 Shri Ram Murti Smarak College of Engineering and Technology, Bareilly U.P.
9. Presented Technical Paper on "Design and Simulation of Pyramidal and Sectoral horn Antennas for millimeter wave communication" Proceeding of conference on Emerging Technology and System Design (ETSD-2012), 15, April, 2012 Shri Ram Murti Smarak College of Engineering and Technology, Bareilly U.P. India
10. Technical Paper entitled "An Approach to Very low bit rate Speech Coding." Proceeding of National conference in recent trends in Information Technology, Dec, 2008 at Bharati Vidyapeeth's college of Engineering, New Delhi.
11. Technical Paper entitled "Study of Change in Climate Conditions by using the Temporal and Spectral Analysis of Remote Sensed Data Over Free Land and Structures" Proceeding of National conference in Mathematical Modeling Optimization and Their Application, Feb23-24, 2007 at Bharati Vidyapeeth University, ICAM, New Delhi
12. Technical Paper entitled "Image Analysis of Remote Sensing Data Integrating Spectral, Temporal and Spatial Features of Objects: A Case Study on Meerut City" Proceeding of National conference in Mathematical Modeling Optimization and Their Application, Feb23-24, 2007 at Bharati Vidyapeeth University, ICAM, New Delhi.
13. Technical Paper entitled "Communication and Information Technology in Rural India" Proceeding of National conference in Mathematical Modeling Optimization and Their Application, April 28-29, 2007 at Bharati V University, ICAM, New Delhi.
14. Technical Paper entitled "Characterization of field soil using sonic waves" Proceeding of National conference in G.B Pant University of Agriculture and Technology Oct 29-31, 2007 at Udham Singh Nagar, Pantnagar.
15. Technical Paper entitled "An approach for remote sensed Data applied to precision farming" Proceeding of National conference in G.B Pant University of Agriculture and Technology Oct 29-31, 2007 at Udham Singh Nagar, Pantnagar.
16. Technical Paper entitled "An Approach for removing the effect of cloud (noise) cover over Land-sat imagery." Proceeding of National conference in recent trends in Information Technology, April 13-14, 2006 at Bharati Vidyapeeth's college of Engineering, New Delhi.
17. Technical Paper entitled "Emphasis on skin-based signal transmission Technology." Proceeding of National conference in recent trends in Information Technology, April 13-14, 2006 at Bharati Vidyapeeth's college of Engineering, New Delhi.
18. Technical Paper entitled "CDMA network technologies: solution for network's problems." Proceeding of National conference in recent trends in Information Technology, April 13-14, 2006 at Bharati Vidyapeeth's college of Engineering, New Delhi.
19. Technical Paper entitled "Agriculture land estimation using remote-sensed imagery." Proceeding of National conference in recent trends in Information Technology, April 13-14, 2006 at Bharati Vidyapeeth's college of Engineering, New Delhi.
20. Technical Paper entitled "Optimization of Image Recognition: Fingerprint Matching." Proceeding of National conference in recent trends in Information Technology, April 13-14, 2006 at Bharati Vidyapeeth's college of Engineering, New Delhi.
21. Technical Paper entitled "An approach towards skin-based signal transmission Technology." National conference in proceeding of Process control and Instrumentation Engineering Feb.23-25, 2006 Department of USIC, Kurukshetra University, Kurukshetra

22. Technical Paper entitled "Noise cancellation using Anti-noise technique." National conference in proceeding of Process control and Instrumentation Engineering Feb.23-25, 2006 Department of USIC, Kurukshetra University, Kurukshetra.
23. Presented Technical Paper on "Organic Electronics" in National Level Paper Presentation Competition from 08/01/2005 to 09/01/2005 held at Sangli (MH).
24. Presented Technical Paper in National Conference on MEMS from 15/04/2004 to 16/04/2004 held at Bhartiya Vidyapeeth's College of Engineering, New Delhi 2004.

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- ❖ Date of Birth — 16th September 1978
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