SATISH CHAND

	 Ph.D. (Comp. Sc.) Jawaharlal Nehru University, Delhi M.Tech. (Comp. Sc.) IIT Kharagpur M.Sc. (Maths.) IIT Kanpur Qualified CSIR JRF and GATE with percentile 94.13 Having more than 25 years of teaching experience
Present Position:	Professor, School of Computer & Systems Sciences, Jawaharlal Nehru University, New Delhi -110067.
Areas of Interest:	Machine Learning, Deep Learning, Steganography, Image processing, Video processing, Digital watermarking, Sensor networks, Video broadcasting.

Admn Responsibilities:

- Member, All India Board of Computer Science & Emerging Tech, AICTE
- Ex-Chairman, All India Board of Information Technology Education, AICTE
- Ex-Member, AICTE Council (highest body of AICTE)
- Ex-Member, Executive committee, AICTE
- Ex-Director, University Placement Cell, JNU, Delhi
- Senior Warden, Jhelum Hostel, JNU, Delhi

Research Supervision: Ph.D. 20 completed, 06 - In progress.

Have been reviewing papers for the following Journals from time to time:

- IEEE Transactions on Multimedia
- IEEE Transactions on Communications
- IEEE Transactions on Broadcasting
- IEEE Transactions on Computers
- IEEE Transactions on Vehicular Technology
- IEEE Communication Letters
- IEEE Transactions on Industrial Informatics
- IEEE Transactions on Cybernetics
- Multimedia Systems (Springer)
- Wireless Personal Communications (Springer)
- Digital Signal Processing (Elsevier)
- Computer and Electrical Engineering Journal (Elsevier)
- Journal of Network and Computer Applications (Elsevier)
- Journal of Computational and Applied Mathematics, Elsevier
- Technical Journal: Computer Engineering, Institute of Engineers (India)
- Journal of the Network and Systems Management (Elsevier)
- Journal of Intelligent Systems, Walter de Gruyter GmbH, Germany
- Defence Science Journal, DRDO, India
- IETE Technical Review, India

Lectures Delivered:

- Delivered a lecture Faculty on Historic perpective of AI and some models in Faculty Development Programme (FDP) "AI for Building Speech and Vision Applications Using Python", Galgotias College of Engg & Tech., Greater Noida, 21st-25th August, 2023.
- Delivered a talk on Clustering of data streams Dec. 19, 2022 in ATAL Faculty Development Program on "Machine learning & Data science applications" Dec. 19-23, 2022, Inderprastha Engineering College, Sahibabad, Ghaziabad, India
- iii. Delivered a talk on Secure Information Sharing Using Images on Oct 13, 2022 in FDP Cyber Security: Managing Risk in the Information Age, October 12-16, 2022, NIT Jalandhar, India
- iv. Delivered a talk on Clustering of Continuously Generated Data on Sept 13, 2022 in FDP "Deep Learning and the Internet of Everything" jointly organised by E&ICT Academy IIT Roorkee and IEEE UP Section, Sept. 12-16, 2022, Galgotias University Noida, India
- v. Delivered a talk on "Some Social Aspects of Clustering" on March 11, 2022 in National Seminar on "Artificial Intelligence: The Next Generation of Computing" at SPM College, Delhi University, march 11-12, 2022.
- vi. Delivered a talk on "Secure communication Using Images" on March 11, 2022 in FDP on* "Research Trends in Data Analytics, Information security and its applications" Chandigarh University, Gharuan on 11th March 2022.
- vii. Delivered a lecture on "Some Applications of Mathematics", on 22.09.2021 in Applied Mathematics Refresher Course, Sept. 16-29, 2021, Ranchi University, Ranchi.
- viii. Delivered a talk on Video-on-Demand on Sept. 17, 2020 in Recent trends in communication, networking and computing paradigms, Sept. 7- 18, 2020, University College of Engineering & Technology, Bikaner Technical University, Bikaner, Rajasthan.
- ix. Delivered a lecture on Placement Cell and Career Opportunities in Role of Guidance and Career Counselling in the Perspective of Present Pandemic Situation of Covid-19, National Level Multidisciplinary webinar, organized by Mankar College on 6th Aug., 2020.
- x. Delivered a talk on "Some Social Aspects of Clustering", Dept. of Electronics, Jammu University, Jammu, on 26th Feb. 2019.
- xi. Delivered a lecture on 13th Dec. 2018 in FDP Data structure and image processing organized by Jagan Institute of Management, Rohini, Delhi, 10-14 Dec., 20018.
- xii. Delivered a lecture on 28th July. 2018 in one day National Seminar on "Recent Advances in Computer vision & Image Processing" organized by IMS Engineering College, Ghaziabad.
- xiii. Delivered a lecture on 13th July, 2018 in Seminar on "Applications of Matlab in Engineering" organized by RKGITM Ghaziabad, 13-14 July, 20018.
- xiv. Delivered a lecture on 23rd May in FDP Data structure and image processing organized by Deevan VSIET, Meerut, 21-25 May, 20018.
- xv. Delivered a lecture in FDP "Signal & Image Processing: Issues, Challenges & Techniques" Jan.
 1-12, 2018. Deenbandhu Chhotu Ram University of Science and Tech, Murthal, Sonepat.

- xvi. Delivered lecture on June 12, 2017 in Faculty Development Program on Machine Learning & Data Analytics, 12-16 June 2017, Department of Computer Science & Engg, IMS Engineering College, Ghaziabad, Sponsored by AKTU, Lucknow, U.P
- xvii. Delivered a Keynote Address Some Aspects of Clustering on January 19, 2018 at International Conference on Data Management, Analytics & Innovation, 19 - 21 January 2018, Institute of Industrial and Computer Management and Research, Pune.
- xviii. Delivered a lecture on Water Marking Application in Image Processing on April 30, 2017, Two Days National Workshop on Advances in Image & Video Processing (AIVP-2017), Dept. of Computer Engg & Applications, GLA University, Mathura, 29 -30th April, 2017.
- xix. Delivered a lecture on Information Security and Digital Forensics (ISDF-2017), Division of Information Technology, NSIT, New Delhi 5–9th June, 2017.
- xx. Faculty Development Program on "Mathematical Aspects of Image Processing and Computer Vision" scheduled from July 10-15, 2017 at Jaypee Institute of information Technology, Noida, India.
- xxi. Delivered a lecture on Sept 13, 2017 in 107th Orientation Programme, 4-29th September, 2017, UGC-HRDC, JNU.
- xxii. Delivered key note address in International Conference on Innovative Trends in Mechanical, Electrical, Electronics, Civil, Engineering, Computer Science and Information Technology (MECIT-2017), Krishi Sanskriti Publications, 14th Oct, 2017, JNU
- xxiii. Delivered a lecture on March 12, 2018 on Some aspects of clustering the continuously generated data in Applications of Graph & Network in Computational Studies, Bioinformatics, Engineering and its Technical Terminology, March 12-14, 2018, JNU
- xxiv. Coordinator, 109th Orientation Programme, HRDC-JNU, 8th Jan. to 02nd Feb., 2018.
- xxv. Delivered lecture on Image coding/Video services in 1st Interdisciplinary Courses in Computer Sciences, Bioinformatics and Information Technology, Aug. 24- Sept. 18, 2015.
- xxvi. Delivered lecture on Video services in Workshop for Enlightenment on Advance Research Trends in Computer Technology (WEAR-C-TECH'15), Govt. Mahila Engineering College Ajmer, Rajasthan, India Sept. 30- Oct. 4, 2015.
- xxvii. Delivered lecture on image encoding techniques in Short term course on 'Digital Image Processing & its Applications.' CSE, ISM Dhanbad, March 26 & 27, 20015
- xxviii. Delivered a talk on Video-demand Services in National Conference on 'Latest Trends in Electronics and Computational Technology' Jammu University, Jammu, March 20, 2015.
- xxix. Delivered a lecture on Some aspects on image processing in Short term course on Speech and Video Processing, Bhai Parmanand Institute of Business studies, Delhi, Sept.5, 2014.
- xxx. Delivered a lecture on Some Aspects on Video broadcasting in Short term course on Speech and Video Processing, Bhai Parmanand Institute of Business studies, Delhi, Sept.2, 2014.
- xxxi. Delivered a lecture on Video-On-Demand in 17th Refresher Course in Computer Science and Information Technology, Jawaharlal Nehru University, Aug. 1, 2014.
- xxxii. Invited to deliver an expert lecture for staff development programme on Applications of Numerical Methods and Software in Science and Engineering, Department of Applied

Mathematics (University Institute of Technology), Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal, (M.P.), Dec., 10-22, 2012.

- xxxiii. Delivered lectures in Staff Development programme on Applications of Advanced Computing Technologies: The Emerging Research Trends, Jan. 2 - 14, 2012, Ambedkar Institute of Advanced Communication Technologies & Research, Geeta Colony, Delhi.
- xxxiv. Delivered lectures in Refresher Course on Latex and Matlab, Jul. 7, 2010 Jul. 24,
- xxxv. 2010 at NSIT New Delhi.
- xxxvi. Invited as a keynote speaker for the national conference at IIPM college of Engg, Greater Noida, Nov. 10, 2011
- xxxvii. Presented papers in 54th Congress of Indian Society of Theoretical and Applied Mechanics, Dec. 18-21, 2009, NSIT New Delhi.
- *xxxviii.* Delivered a talk on Video-on-Demand on Jan. 21, 2009 at Institute of professional Excellence & management, Ghaziabad.
- xxxix. Delivered Lectures entitled 'Video-on-Demand' on Nov. 21, 2008 for the 11th Refresher Course in Computer Science at Academic Staff College, Jawaharlal Nehru University, Delhi.
 - xl. Delivered a talk in a seminar entitled 'Data Storage and Retrieval' on April 18, 2007 at Apeejay School of Management, Dwarka, New Delhi.
 - xli. Delivered lectures to students under Special Component Program for weaker sections at NSIT, Delhi.

Administrative Responsibilities held at Institute and Department level in Past

- i. Chairman, Maintenance Advisory Committee, institute level, NSIT.
- ii. Chairman, Committee for drafting guidelines for M.Tech. Thesis supervision, NSIT.
- iii. Chairman of committee for recommendation of laying LPG gas pipelining in NSIT campus
- iv. Member of committee for procurement of consumable items for central workshop for 2012-13
- v. Member of committee for purchase of Power Electronics Lab Secure Setting B 102.111.40 and Power Electronics Lab circuit with research content management B 102.111.50.
- vi. Member of committee for selection of students for DLF Foundation scholarship
- vii. Member of academic council, NSIT
- viii. Member of Institute research committee
 - ix. M.Tech. (Information System), Coordinator
 - x. Office-in-Charge of Distributed Computing Laboratory
- xi. Member in BE admission committee
- xii. Coordinator for a anti ragging vigilance squad since 2003
- xiii. Member of Institute Networking Scheme, NSIT, in 2000, 2001, 2002
- xiv. Member of Institute Interaction Partnership Cell (IIPC) in 2001
- xv. Member of the Lecture Series Committee 2001
- xvi. Member of the Committee to procure Computers in 2000
- xvii. Member of the Committee to procure Sound System in 2000
- xviii. Member of the Committee to procure Conferencing System in 2000

- xix. Member of the Committee to procure LCD Projector in 2000
- xx. Member of the Committee to procure UPS under INS in 2002
- xxi. Coordinator, Winter Training for BE(Computer Engg) in 2002, 2003, 2004
- xxii. Member of the Committee to procure items for Computer Networking cable plant in 2002
- xxiii. Member of the Committee to review water charges in 2003
- xxiv. Member of the Committee of Office Automation project in 2003
- xxv. Member of the Committee for Condemnation of Microcomputer/Unix lab's in 2004
- xxvi. Member of the Committee for Annual Maintenance Contract in 2004
- xxvii. Coordinator of a students' team meant for developing a website: www.nsit.edu in 2002
- xxviii. Member of the Networking Committee in 2004.

Active Participation in organizing the Conferences/Symposiums

- a. Active participation in International Meet of Applied Mathematics, Dec 2009
- b. 34th ISTE Annual Convention & National Seminar, Dec. 18-20, 2004, at NSIT, New Delhi.
- c. Joint 9th National Conference of the Vijnana Parishad of India on Applied and Industrial Mathematics and 5th Annual Conference of Indian Society of Information Theory and Applications, Feb. 2002, held at NSIT.
- d. National Symposium on Ancient Indian Science, Engineering & Technology interfaced with the Modern Knowledge, Dec. 14-15, 2001 at Indian Agricultural Research Institute, New Delhi.
- e. National Conference on Traditional & Modern Swadeshi Vigyan, Dec. 26-27, NSIT, New Delhi.

LIST OF PUBLICATIONS

In refereed International Journals

- 1. Akshay Dheeraj and Satish Chand, "LWDN: Lightweight DenseNet Model for Plant Disease Diagnosis," Journal of Plant Disease and Protection, Singer, accepted.
- Deepti Singh, Bijendra Kumar, Samayveer Singh, Satish Chand, and Pradeep Kumar Singh, "RCBE-AS: Rabin cryptosystem–based efficient authentication scheme for wireless sensor networks," Personal and Ubiquitous Computing, Vol. 28, pp. 171–192, 2024. https://doi.org/10.1007/s00779-021-01592-7
- 3. Manoj Kumar and Satish Chand, "Hybrid sigmoid activation function and transfer learning assisted breast cancer classification on histopathological images," Multimedia Tools and Applications, Dec. 2023. https://doi.org/10.1007/s11042-023-17808-2.
- Pushp and Satish Chand. "A residual utility based concept for high utility itemset mining," Knowledge and Information Systems, springer, Aug, 2023. https://doi.org/10.1007/s10115-023-01948-w.
- Pushp and Satish Chand. "A Reinduction-Based Approach for Efficient High Utility Itemset Mining from Incremental Datasets," Data Science and Engineering, springer, Aug. 2923, https://doi.org/10.1007/s41019-023-00229-4.
- Prativa Das and Satish Chand, "Automated Road Extraction from Remotely Sensed Imagery using ConnectNet," Journal of the Indian Society of Remote Sensing, Springer, Vol. 51, pp. 2105–2120, Oct. 2023. https://doi.org/10.1007/s12524-023-01747-4.
- Mahender Kumar, Carsten Maple, and Satish Chand, "An efficient and secure identity-based integrity auditing scheme for sensitive data with anti-replacement attack on multi-cloud storage," Journal of King Saud University - Computer and Information Sciences, Vol. 35(9), Oct. 2023, 101745. <u>https://doi.org/10.1016/j.jksuci.2023.101745</u>
- Mahender Kumar, Carsten Maple, and Satish Chand, "An Efficient and Secure Identity-Based Integrity Auditing Scheme for Sensitive Data with Anti-Replacement Attack on Multi-Cloud Storage," Journal of King Saud University - Computer and Information Sciences, 6 Sept, 2023, 101745, https://doi.org/10.1016/j.jksuci.2023.101745
- Arun Kumar Rai, Hari Om, Satish Chand and Saurabh Agarwal, "Reversible data hiding in encrypted image using two-pass pixel value ordering," Journal of Information Security and Applications, Vol. 76, August 2023, 103545. https://doi.org/10.1016/j.jisa.2023.103545
- Arun Kumar Rai, Hari Om, Satish Chand and Chia-Chen Lin, "High-Capacity Reversible Data Hiding Based on Two-Layer Embedding Scheme for Encrypted Image Using Blockchain," Computers, 12, no. 6: 120, June, 2023, MDPI, https://doi.org/10.3390/computers12060120.
- Arun Kumar Rai, Hari Om and Satish Chand, "High capacity reversible data hiding in encrypted images using prediction error encoding," Multimedia Tools and Applications, 82, pp. 8345–8358, July 2023. https://doi.org/10.1007/s11042-021-11574-9.

- Anamika Maurya and Satish Chand, "Understanding Road Scene Images Using CNN Features," Computational Intelligence in Analytics and Information Systems, pp. 417-426, Sept. 2023, 1st ed., edited by P. Dhaliwal, M. Kaur, H. K. Thakur, R.K. Arya, J. Lu.
- Anamika Maurya and Satish Chand, "EFF-MANet: A Systematic Approach for Feature Extraction in Unstructured Road Scene Scenarios," Computational Intelligence in Analytics and Information Systems. pp. 329-339, Sept. 2023. 1st ed., edited by P. Dhaliwal, M. Kaur, H. K. Thakur, R.K. Arya, J. Lu. https://doi.org/10.1201/9781003332367
- Anamika Maurya and Satish Chand, "A global context and pyramidal scale guided convolutional neural network for pavement crack detection," International Journal of Pavement Engineering, Taylor & Francis, Vol. 24(1), March 2023. https://doi.org/10.1080/10298436.2023.2180638.
- Anamika Maurya and Satish Chand, "Cross-form efficient attention pyramidal network for semantic image segmentation," AI Communications Journal, vol. 35, no. 3, pp. 225-242, Sept. 2022. DOI: 10.3233/AIC-210266.
- Yadavendra and Satish Chand, "Semantic Segmentation of Human Cell Nucleus Using Deep U-Net and Other Versions of U-Net Models" Network: Computation in Neural Systems. Taylor & Francis, pp. 167-186, Jul 2022, https://doi.org/10.1080/0954898X.2022.2096938.
- Arun Kumar Rai, Hari Om and Satish Chand, "High fidelity reversible data hiding technique based on adaptive pairing of prediction errors," Multimedia Tools and Applications, https://doi.org/10.1007/s11042-021-11338-51, Jan., 2022.
- Prativa Das and Satish Chand, "Extracting Building Footprints from High-resolution Aerial Imagery Using Refined Cross AttentionNet," IETE Technical Review, Taylor & Francis, https://orcid.org/0000-0002-8989-1959, July, 2021.
- Arun Kumar Rai, Neeraj Kumar, Rajeev Kumar, Hari Om, Satish Chand and Ki-Hyun Jung, "Intra-Block Correlation Based Reversible Data Hiding in Encrypted Images Using Parametric Binary Tree Labeling," Symmetry, 13(6), 1072, June2021; https://doi.org/10.3390/sym13061072
- Mahender Kumar and Satish Chand, "MedHypChain: A Patient-Centered Interoperability Hyperledger-Based Medical Healthcare System: Regulation in COVID-19 Pandemic," Journal of Network and Computer Applications, Elsevier, Vol. 179, April 2021, 102975.
- Alpana, Satish Chand, Subrajeet Mohapatra, and Vivek Mishra, "Automated char classification using image analysis and artificial intelligence", International Journal of Oil, Gas and Coal Technology, Inderscience, July 22, 2021, pp 235-248.
- 22. Deepti Singh, Bijendra Kumar, Samayveer Singh, and Satish Chand, "A Secure IoT-Based Mutual Authentication for Healthcare Applications in Wireless Sensor Networks Using ECC." International Journal of Healthcare Information Systems and Informatics, Vol. 16(2), pp. 21-48, Jan. 2021. DOI: 10.4018/IJHISI.20210401.oa2
- Deepak Sharma, Bijendra Kumar, and Satish Chand, "Uncovering Research Trends and Topics of Communities in Machine Learning," Multimedia Tools and Applications, Nov. 2020. https://doi.org/10.1007/s11042-020-10072-8.

- Rajnish K. Chaturvedi and Satish Chand, "An Adaptive and Efficient Packet Scheduler for Multipath TCP," Iranian Journal of Science and Technology, Transactions of Electrical Engineering, August, 2020, https://doi.org/10.1007/s40998-020-00368-8.
- Prativa Das and Satish Chand, "Extracting Road Maps from High-resolution Satellite Imagery using Refined DSE-LinkNet," Connection Science Journal, Taylor & Francis, August, 2020, DOI: 10.1080/09540091.2020.1807466.
- Devender Kumar and Satish Chand, "Cryptanalysis and Improvement of a User Authentication Scheme for Wireless Sensor Networks Using Chaotic Maps" IET Networks, Vol 9(6), Nov. 2020, pp. 315 – 325.
- Rajnish K. Chaturvedi and Satish Chand, "Multipath TCP security over different Attacks," Transactions on Emerging Telecommunications Technologies, Vol. 31(9), Aug. 2020. https://doi.org/10.1002/ett.4081
- Mahender Kumar and Satish Chand. "A Secure and Efficient Cloud-Centric Internet of Medical Things-Enabled Smart Healthcare System with Public Verifiability" IEEE Internet of Things Journal, Vol. 7(10), Oct. 2020, pp. 10650-10659.
- 29. Yadavendra and Satish Chand, "A Comparative Study of Breast Cancer Tumors Classification by Classical Machine Learning Methods and Deep Learning Method," Machine Vision and Applications, Springer, July, 2020, 31:46, https://doi.org/10.1007/s00138-020-01094-1
- Mahender Kumar and Satish Chand, "A Lightweight Cloud-Assisted Identity-Based Anonymous Authentication and Key Agreement Protocol for Secure Wireless Body Area Network." IEEE Systems Journal, May 2020. DOI: 10.1109/JSYST.2020.2990749.
- Mahender Kumar, Satish Chand, and C.P. Katti. "A Secure End-to-End Verifiable Internet-Voting System Using Identity-Based Blind Signature." IEEE Systems Journal, vol. 14(2), pp. 2032-2041, Jan. 2020.
- Alpana and Satish Chand, "An intelligent technique for the characterization of coal microscopic images using ensemble learning", Journal of Intelligent and Fuzzy Systems, IOS Press, Vol. 38(5), 2020, pp. 6257-6267, May 2020.
- Mahender Kumar and Satish Chand, "Escrow-Less Identity-Based Signature Scheme with Outsourced Protection in Cloud Computing," Wireless Personal Communication, Springer, June 2020. https://doi.org/10.1007/s11277-020-07520-x.
- Deepti Singh, Bijendra Kumar, Samayveer Singh, and Satish Chand, "Evaluating Authentication Schemes for Real-Time Data in Wireless Sensor Network," Wireless Personal Communications, Vol. 114, pp. 629–655, April 2020.
- Rituraj Soni, Bijendra Kumar, and Satish Chand, "Text Region Extraction from Scene Images using AGF and MSER", International Journal of Image and Graphics, Vol. 20(2), 2050009, 2020.
- 36. Mahender Kumar and Satish Chand, "SecP2PVoD: a secure peer-to-peer video-on-demand system against pollution attack and untrusted service provider." Multimedia Tools and Applications, Springer, 79, pp.6163-6190, Dec 2019.

- Rajnish K. Chaturvedi and Satish Chand, "Optimal Load Balancing Linked Increased Algorithm for Multipath TCP," Wireless Personal Communications, Springer, Vol. 111, pp. 1505–1524, Nov. 2019.
- 38. Rituraj Soni, Bijendra Kumar and Satish Chand, "Optimal feature and classifier selection for text region classification in natural scene images using Weka tool" Multimedia Tools and Applications, Vol. 78, pp. 31757–31791, July 2019.
- Saurabh Agarwal and Satish Chand, "A Content-Adaptive Median Filtering Detection Using Markov Transition Probability Matrix of Pixel Intensity Residuals," Journal of Applied Security Research, Vol. 14(1), pp. 88-105, May 2019.
- Deepti Singh, Bijendra Kumar, Samayveer Singh, and Satish Chand, "SMAC-AS: MAC Based Secure Authentication Scheme for Wireless Sensor Network," Wireless Personal Communications, Vol. 107, pp. 1289–1308, 2019. https://doi.org/10.1007/s11277-019-06336-8.
- Mahender Kumar and Satish Chand, "ESKI-IBE: Efficient and secure key issuing identity-based encryption with cloud privacy centers," Multimedia Tools and Applications, Springer, Vol. 78, pp. 19753-19786, Feb 2019.
- 42. Pushp and Satish Chand, "QoS in Mobile Ad-Hoc Networks" Wireless Personal Communications, Vol.105, pp. 1599–1616, Feb., 2019
- 43. Devender Kumar, Satish Chand, and Bijendra Kumar, "Cryptanalysis and Improvement of an Authentication Protocol for Wireless Sensor Networks Applications like Safety Monitoring in Coal Mines", Journal of Ambient Intelligence and Humanized Computing, Springer, Feb, 2018, https://doi.org/10.1007/s12652-018-0712-8
- Devender Kumar, Satish Chand and Bijendra Kumar, "Cryptanalysis and Improvement of a Two-Factor User Authentication Scheme", Infocommunications Journal, March, 2018, DOI: 10.36244/ICJ.2018.1.2
- 45. Manju, Satish Chand and Bijendra Kumar, "Target Coverage Heuristic Based on Learning Automata in Wireless Sensor Networks," IET Wireless Sensor Systems, Vol. 8(3), pp. 109 – 115, May 2018.
- Rajeev Kumar, Satish Chand, and Samayveer Singh, "An Improved Histogram-Shifting-Imitated Reversible Data Hiding based on HVS Characteristics," Multimedia Tools and Applications, Vol. 77(11), pp 13445–13457, July 2018.
- Rajeev Kumar, Satish Chand, and Samayveer Singh, "A Reversible Data Hiding Scheme Using Pixel Location," International Arab Journal of Information Technology (IAJIT), Vol. 15(4), pp. 763-768, July, 2018.
- 48. Manju, Satish Chand, and Bijendra Kumar, "Genetic Algorithm Based Meta-Heuristic for Target Coverage Problem," IET Wireless Sensor Systems, Vol. 8(4), pp. 170–175, Aug. 2018.
- Rajeev Kumar and Satish Chand, "A reversible high capacity data hiding scheme using combinatorial strategy", International Journal of Multimedia Intelligence and Security, Vol. 3(2), pp.146 – 161, Nov. 2018.

- Devender Kumar, Satish Chand and Bijendra Kumar, "A PKC-Based User Authentication Scheme without Smart Card", Journal of Intelligent and Fuzzy Systems, IOS Press, Nov. 2018, DOI: 10.3233/JIFS-169820.
- 51. Manju, Satish Chand, and Bijendra Kumar, "Selective α-Coverage Based Heuristic in Wireless Sensor Networks," Wireless Personal Communications, Springer, Vol. 97, p. 1623–1636. 2017.
- Manju, Satish Chand, and Bijendra Kumar, "Improved-Coverage Preserving Clustering Protocol in Wireless Sensor Networks," International Journal of Engineering and Technology Innovation, 6(1), pp.16-29, Jan. 2016.
- Samayveer Singh, Satish Chand, and Bijendra Kumar, "Multilevel Heterogeneous Network Model for Wireless Sensor Networks", Telecommunication Systems, Springer, vol. 64(2), pp. 259–277, May, 2016.
- Rajeev Kumar, and Satish Chand, "A Reversible Data Hiding Scheme Using Bit Flipping Strategy", Journal of Discrete Mathematical Sciences & Cryptography, Taylor & Francis, Vol. 19(2), pp. 331-345, Jun. 2016.
- 55. Satish Chand "Study of Buffer Storage in Video Channelization," Journal of Information and Optimization Sciences, Vol. 37(3), pp. 389-404, July 2016
- 56. Samayveer Singh, Satish Chand, and Bijendra Kumar, "Optimum sink location for sensor deployment in wireless sensor networks," Journal of Information and Optimization Sciences, Taylor n Francis, Vol. 37(4), pp. 605-619, Sept. 2016,
- Saurabh Agarwal, Satish Chand, and S. Nickolay, "SPAM Revisited for Median Filtering Detection using Higher Order Difference" Security and Communication Networks, Wiley Publications, Vol. 9(17), pp. 4089-4102, Nov. 2016.
- Manju, Satish Chand, and Bijendra Kumar, "Maximizing Network Lifetime for Target Coverage Problem in Wireless Sensor Networks", IET Wireless Sensor Systems, Vol. 6(6), pp. 192-197, Dec. 2016.
- 59. Satish Chand, "Analytical Study of Disk Performance for Continuous Media Streaming", Journal of Information and Optimization Sciences, Taylor & Francis, Vol. 36 (1 & 2), pp. 43–59, 2015.
- Samayveer Singh, Satish Chand, and Bijendra Kumar, "Energy Efficient Clustering Protocol Using Fuzzy Logic for Heterogeneous WSNs," Wireless Personal Communications, Vol. 86(2), pp. 451-475, July 2015.
- Saurabh Agarwal and Satish Chand, "Image Forgery Detection using Multiscale Entropy Filter and Local Phase quantization" International Journal of Image, Graphics, and Signal Processing, Vol. 7(10), pp. 78-85, Sept. 2015.
- Rajeev Kumar, Satish Chand and Samayveer Singh, "An Efficient text steganography scheme using Unicode Space characters", International Journal of Forensic Computer Science, Vol. 10(1), pp. 8-14, Sept. 2015.
- 63. Satish Chand "Estimation of Storage using Jitter incorporated Channelization," Journal of Information and Optimization Sciences, Vol. 36(5), pp. 405-419, Sept. 2015

- 64. Rajeev Kumar and Satish Chand, "A Novel High Capacity Reversible Data Hiding Scheme based on Pixel Intensity Segmentation", Multimedia Tools and Applications, Springer, pp. 1-18, 2015
- 65. Saurabh Agarwal and Satish Chand, "Anti-forensic of JPEG images using Interpolation" International Journal of Image, Graphics, and Signal Processing, Vol. 7(12), pp. 10-17, 2015.
- Satish Chand, Samayveer Singh, and Bijendra Kumar, "Heterogeneous HEED Protocol for Wireless Sensor Networks," Wireless Personal Communication, Springer, 77(3), pp. 2117-2139, Feb. 2014.
- Satish Chand, "Efficient Time-Frequency Localization of a Signal", International Journal of Digital Multimedia Broadcasting, Hindawi Publishing Corporation, Article ID 529852, 10 pages, Aug. 2014, http://dx.doi.org/10.1155/2014/529852
- 68. Rajeev Kumar and Satish Chand, "A reversible high capacity data hiding scheme using pixel value adjusting feature", Multimedia Tools and Applications, Vol 75(1), pp. 241-259, Oct. 2014.
- Samayveer Singh, Singh, Satish Chand, and Bijendra Kumar, "Performance Evaluation of Distributed Protocols Using Different Levels of Heterogeneity Models in Wireless Sensor Networks", International Journal of Computer Network and Information Security, Vol. 7(1), pp.38-45, Dec. 2014.
- Satish Chand, Samayveer Singh, Bijendra Kumar, "3-Level Heterogeneity Model for Wireless Sensor Networks", International Journal of Computer Network and Information Security, Taiwan, Vol. 5(4), pp. 40-47, April 2013.
- Rajeev Kumar, Khushil K. Saini, and Satish Chand, "A New Steganography Technique Using Snake Scan Ordering Strategy," International Journal of Image, Graphics and Signal Processing, Taiwan, Vol. 5(6), pp. 25-32, May 2013.
- Samayveer Singh, Satish Chand, Rajeev Kumar, and Bijedra Kumar, "Optimal sensor deployment for WSNs in grid environment," IET Electronics Letters, Vol. 49(16), pp. 1040-1041, Aug. 2013.
- 73. Satish Chand, Samayveer Singh and Bijendra Kumar, "hetADEEPS: ADEEPS for Heterogeneous Wireless Sensor Networks," International Journal of Future Generation Communication and Networking Vol.6(5), pp.21-32, Oct. 2013
- 74. Sudeep Kanav and Satish Chand, "Adaptability of Conservative Staircase Scheme for Live Videos," Circuit and Systems Journal, Scientific Research Publishing, USA, Vol. 2, pp. 151-161, July 2011.
- Sandeep Kumar and satish Chand, "New Pixel based Approach for Reverse Play of MPEG Video for Streaming System", Signal Processing: Image Communication Journal, Elsevier, 26(8-9), pp. 482-492, Oct. 2011.
- 76. Satish Chand, "Live Video Services using Fast Broadcasting Scheme," Communications and Network Journal, Scientific Research Publishing, USA, Vol. 2(1), pp. 79-85, Feb. 2010.
- 77. Sandeep Kumar and Satish Chand, "Extraction of Desired Partial Block of a Frame from MPEG Video Stream," International Journal of Computer Applications, Vol. 1(2), pp. 85-88, Feb. 2010.

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