

Dr. Mandeep Kaur

Assistant Professor (Sr. Grade)
Department of Information Technology, #407,
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University Institute of Engineering & Technology (UIET), Sector 25,
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Qualification

Doctorate:	PhD (Engineering and Technology)
Post-Graduation:	Master of Engineering (CSE(IT)) Punjab Engineering College, Panjab University, Chandigarh. Year: 2004
Graduation:	Bachelor of Technology (Computer Science & Engineering.) Panjab Technical University, Chandigarh Year: 1999
Research Domain:	Digital Image Processing, Digital Forensics, Data Mining
Research Supervised:	03 PhD(ongoing) 20 M.E. scholars awarded degree, 01 ongoing
Research Credentials:	ORCID ID: orcid.org/0000-0003-3926-8007 Google Scholar: https://scholar.google.com/citations?user=4l47pd4AAAAJ

Extension Activities

- Faculty Mentor under IBM Academic Initiative for the National level software development program, 20 Mar 2007.
- Convener, First Symposium on “Emerging Trends in Telecommunication and IT” , 3-4 Oct, 2013 under TEQIP-II
- Convener, workshop on “Programming Skills” by Infosys Professionals for BE(IT) students , 26 Mar 2014 under TEQIP II
- Program Coordinator, workshop on “Android Application Development” for UG students, organized by IT student Technical Committee members and student entrepreneurs, 1 May 2014.
- Coordinated the expert talk by Professors from TechnischeUniversitaet Chemnitz, Germany on

Data Mining and Business Intelligence for UG students, Nov 17-21, 2014.

- Coordinated the first On-line Web based Satisfaction survey for IT under TEQIP-II project (7 Oct 2014)
- Participated in various Faculty Development Programs /Interaction organized by industry like on Tata Consultancy Service, Infosys, IBM, Microsoft, Red Hat Inc.
- Conduct of Engineering Session (CHASCON 2012), Quiz competition (CHASCON 2014), Editorial Committee (CHASCON-2011, CHASCON-2015)
- Conducted theory and hands-on laboratory session for DST Inspire Camp, 27-31 Mar 2018.
- Coordinator, One day workshop on “Complete Open Source Solutions”, under Red Hat Academy Program, 9 May 2018,.
- Organized technical session on “Introduction to Linux”, through video conferencing, 29 Aug 2018 for UG students of GCET, Jammu under Twinning initiatives of TEQIP.
- Coordinator, Summer Internship of fifty students from GCET Jammu at UIET, PU, (Under Student exchange program (TEQIP–III))
- Academic Representative (Information Technology)
- Performed duties as Faculty-in-charge and had been members various committees of IT department : Training, Seminars, Sessionals, Time Table, ME admission, ME Thesis, Scheme and Syllabus, Curriculum Revision, Academic and Administrative , committee, BE admission, Purchase committee etc.
- Had been member various committees at UIET : Academic and Administrative , Technical committee, BE admission, Purchase committee, Alumni meet, BOS, Degree Award Function, Academic Affairs Committee, Deputy Superintendent Exams, Student Elections
- Member of organizing committee for various workshops, conferences, symposium, organized at the Institute/PU.

List of Publications

- 1 Implementing ICM algorithm for generating Image Signatures using Feed- Forward Back Propagation Model, National Conference on Emerging Trends in Wireless Communication and E-security (WCES – 2007) ,UIET,PU.
- 2 Biometrics Identification: Fingerprint Scan, International Conference on Research in Management and Technology, GJIMT, Mohali, March 2007.
- 3 Attack Methodology Analysis by using Honeypot Technology, 2nd National Conference on Challenges and Opportunities in Information Technology, RIMT, Gobindgarh, March 2008.
- 4 Robust Watermarking into the Color Models based on the Synchronization Template, 2nd International Conference on Information and Multimedia Technology, IEEE ICIMT, South Korea, Dec 2009.
- 5 Effect Of Quantization On The Robustness Of DCT Digital Watermarking Techniques,

2nd International Conference on Information and Multimedia Technology, IEEE ICIMT, South Korea, Dec 2009.

- 6 Analysis and Comparison of Data Mining Tools using Case Study of Library Management System, 3rd International Conference on Computer and Electrical Engineering, IEEE ICCEE China, 2010.
- 7 Verification of Detection of Principal Components in Low Interaction Honeypots using StatistiXL Tool, International Journal on Recent Trends in Engineering & Technology, Nov 2010.
- 8 Emerging Approaches for Automated Mass Detection in Digital Mammograms, Chandigarh Science Congress, 2011.
- 9 Efficient Techniques for Compression in Medical Images, Chandigarh Science Congress, 2011
- 10 Performance Evaluation of ROI-based Image Compression Techniques, International Journal of Scientific & Engineering Research, ISSN 2229-5518, Vol 2, Issue 10, Oct 2011.
- 11 Reversible Watermarking Techniques for Medical Image with ROI – Tamper Detection and Recovery – A Survey, International Journal of Emerging Technology and Advanced Engineering. ISSN, 2250–2459 ,Vol 2 , Issue 1, Jan 2012.
- 12 Reversible Watermarking of Medical Images: Authentication and Recovery- A Survey, Journal of Information and Operations Management, 10.9735/0976-7754, Vol 3, Issue 1, pp 241-244, Feb 2012.
- 13 Image Tamper Detection Using Non Alignment Of JPEG Grids, International Journal of Emerging Technologies in Computational and Applied Sciences (IJETCAS), pp 331-333, International Association of Scientific Innovation and Research (IASIR), ISSN 2279 – 0047, 2013.
- 14 A Survey of Reversible Watermarking Techniques for Data Hiding with ROI-Tamper Detection in Medical Images, Mobile Communication and Power Engineering, Springer Berlin Heidelberg, DOI: 10.1007/978-3-642-35864-7_80, ISSN: 1865-0929, Vol 296, pp 516-522, 2013.
- 15 Tamper Detection Using Double Compression JPEG Artifact-A Review, International Association of Scientific Innovation and Research, International Journal of Software and Web Sciences, Vol 6, Issue 1, pp. 28-32, Sept-Nov, 2013
- 16 Analysis and Comparison of Data Mining Tools Using Case Study of Library Management System, International Journal of Information and Electronics Engineering, Vol.3, Issue 5, ISSN:2010-3719 , DOI: 10.7763/IJIEE.2013.V3.359, pp 466-469, Sept 2013.
- 17 Image Tamper Detection based on JPEG Artifacts, International Journal of Application or Innovation in Engineering & Management (IJAIEM), Volume 3, Issue 4, PP 358-363, April 2014, ISSN 2319 – 4847.
- 18 Effect of Interpolation on Passive Algorithm Detecting Double Compression in Presence of Image Resizing, Proceedings of the 3rd international Conference on Computer Application and Signal Processing 2014, ISBN: 978-981-09-2578-9, doi:10.3850/978-981-09-2579-6_P014, Sept 2014.
- 19 Analysis of Digital Image Forgery Technique for Detecting Non Aligned Double JPEG Compression in Digital Images, Proceedings of the 3rd international Conference on Computer Application and Signal Processing 2014, ISBN: 978-981-09-2578-9, doi:10.3850/978-981-09-2579-6_P015, Sept 2014.
- 20 Text Emotion Detection using Neural Network, International Journal of Engineering Research and Technology, ISSN 0974-3154 Vol 7, Nov 2 (2014), pp. 153-159, Nov 2014

- 21 Forgery Detection using Noise Inconsistency: A Review, International Journal of Computer Science and Information Technologies, Vol. 5 Issue 6 , 2014, 7618-7622, ISSN: 0975-9646, 2014
- 22 Forgery Detection Based on Blur Inconsistencies: A Review, International Journal of Engineering and Technical Research, ISSN: 2321-0869, Volume-2, Issue-12, Dec 2014.
- 23 An Investigation Of Approaches for Image Forgery Detection, International Journal of Advanced Research in Computer and Communication Engineering Vol. 3, Issue 12, December 2014.
- 24 High Capacity, Reversible Data Hiding Using CDCS Along with Medical Image Authentication, International Journal of Signal Processing, Image Processing and Pattern Recognition, Vol. 8, No. 1 ,2015, pp. 49-60, 2015.
- 25 Noise Variance estimation to detect forgery in digital images, IJISSET - International Journal of Innovative Science, Engineering & Technology,ISSN 2348 – 7968, Vol. 2 Issue 8, August 2015. Pg: 347-352, 2015.
- 26 A Practical Approach to Sentiment Analysis of Hindi Tweets, 1st International Conference on Next Generation Computing Technologies (NGCT-2015), Dehradun, India, Sept 2015.
- 27 Evaluation of image forensic cues for fusion, Third International Conference on Image Information Processing, Wagnaghat, India, 2015.
- 28 Forgery detection using noise estimation and HoG feature extraction, International Journal of Multimedia and Ubiquitous Engineering, Vol11 (4), 37-48, 2016.
- 29 Copy move tampering detection techniques: a review, International Journal of Applied Engineering Research, Vol 11 (5), 3610-3615, 2016.
- 30 A passive blind approach for image splicing detection based on DWT and LBP histograms, International Symposium on Security in Computing and Communication, 318-3272, Jaipur, India, Springer Book Chapter : Communications in Computer and Information Science book series (CCIS, volume 625) 2016.
- 31 A Robust and Fast Technique to Detect Copy Move Forgery in Digital Images Using SLIC Segmentation and SURF Keypoints, Proceeding of International Conference on Intelligent Communication, Control and Devices, Dehradun 2017.
- 32 A fusion framework based on fuzzy integrals for passive-blind image tamper detection, Cluster Computing, pp 1-16, DOI: 10.1007/s10586-017-1393-3, 2017.