

## Journal Publications for the Year 2017

- [1] Syed Yaqoob Shah, Muhammad Ismail, Sahib Khan and Nasir Ahmad, (2017) “Age Classification using Facial Image Features in DCT Domain”, *Sindh University Research Journal (Science Series)*, vol. 49, issue. 3, pp. 535-540, September 2017.
- [2] Mufassir Abdur Rahim, Ghulam Rasool, and Nasir Ahmad, (2017) “EMG-Controlled Transradial Prostheses – An Investigation into Machine Learning Techniques”, *International Journal of Computer Applications*, vol. 174, issue. 3, pp. 1-8, September 2017.
- [3] Faisal Jamal Nasir, Nasir Ahmad, and Syed Shadab Ali Shah, (2017) “A Parametric Discriminative Approach for Skin color Detection by Training Weak Learners on Normalized Chrominance and Luminance”, *International Journal of Computer Applications*, vol. 173, issue. 3, pp. 35-41, September 2017.
- [4] Muhammad Naeem, Sahib Khan, and Nasir Ahmad, (2017) “A Distributed GA and A-Priori Algorithm for the hub and Facility Location Problems”, *Journal of Engineering and Applied Science (JEAS)*, vol. 36, no. 1.
- [5] Jehad Ali, Khalil Khan, Muhammad Naeem, Usman Ali, Nasir Ahmad, (2017) “Robust Multimodal Face Recognition With Pre-Processed Kinect Rgb-D Images”, *Journal of Engineering and Applied Science (JEAS)*, vol. 36, no. 1.
- [6] Sahib Khan, Muhammad Naeem, Tawab Khan, Nasir Ahmad, (2017) “4LSB based data hiding in complex region of digital images and its effects on edges and histogram”, *Journal of Engineering and Applied Science (JEAS)*, vol. 36, no. 1.
- [7] Asima Latif, Shah Khusro, Irfan Ullah, Nasir Ahmad, (2017) “A Hybrid Technique for Annotating Book Table”, Accepted for publication in *International Arab Journal of Information Technology*, Impact Factor 0.519.
- [8] Sadiq Shah, Muhammad Ismail, Muhammad Naeem and Nasir Ahmad, (2017) “A Hybrid Face Detection Approach Based on Facial Features and Skin color Information”, *Sindh University Research Journal (Science Series)*, vol. 49, issue. 1, pp. 229-233, March 2017.

- [9] Khalil Khan, Nasir Ahmad, Khalil Ullah, Irfanud Din (2017) “Multi-class semantic segmentation of faces using CRFs”, *Turkish Journal of Electrical Engineering and Computer Science*. Impact Factor. 0.518.
- [10] Sahib Khan, Muhammad Ismail, Tawab Khan, Nasir Ahmad, (2017), “Enhanced stego block chaining (ESBC) for low bandwidth channels”, *Security and Communication Networks*. Impact Factor. 0.806.

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- [11] Gulraj, M., & Ahmad, N. (2016) "Mood detection of psychological and mentally disturbed patients using Machine Learning techniques", *International Journal of Computer Science and Network Security (IJCSNS)*, vol. 16, issue. 8, pp. 63-67.
- [12] Arbab Waseem Abbas, Nasru Minallah, Nasir Ahmad, Sahibzada Abdur Rehman Abid, and Muhammad Akbar Ali Khan, (2016) "K-Means and ISODATA Clustering Algorithms for Landcover Classification Using Remote Sensing", *Sindh University Research Journal (Science Series)*, vol. 48, issue. 2, pp. 315-318, June 2016.
- [13] Sahib Khan, Twab Khan, Muhammad Ismail and Haseeb Zafar, M. Abeer Irfan, and Nasir Ahmad (2016) "Increasing Hiding Efficiency of Image Steganography using Pre and Post Image Compression", *Sindh University Research Journal (Science Series)*, vol. 48, issue. 2, pp. 297-300, June 2016.
- [14] Muhammad Ismail, Sahib Khan, Muhammad Naeem and Nasir Ahmad, (2016) "Stego Block Chaining: A Secure 4LSB Steganography Technique", *Sindh University Research Journal (Science Series)*, vol. 48, issue. 1, pp. 151-154, March 2016.
- [15] Sahib Khan, Nasir Ahmad, Muneeza Wahid, (2016) "Varying index varying bits substitution algorithm for the implementation of VLSB steganography", *Journal of the Chinese Institute of Engineers*, vol. 39, no.1, pp. 101-109, Impact Factor 0.24.

## Journal Publications for the Year 2015

- [16] Sahib Khan, Abdur Rehman, Nasir Ahmad, and Muhammad Naeem, (2015) “The Reduction of Specific Absorption Rate at Different Frequencies”, *Journal of Engineering and Applied Science (JEAS)*, vol. 34, no. 2, pp. 71-75.
- [17] Atta Ur Rehman, Laiq Hasan, Nasir Ahmad, Kashif Ahmad and Shakirullah, (2015) “Comparative Study of Support Vector Machine and Hamming Distance Used for Iris Recognition”, *Journal of Engineering and Applied Science (JEAS)*, vol. 34, no. 1, pp. 116-122.
- [18] Sahib Khan, Twab Khan, Muhammad Naeem and Nasir Ahmad, (2015) “Run-Length Encoding Based Lossless Compressed Image Steganography”, *Sindh University Research Journal (Science Series)*, vol. 47, issue. 3, pp. 231-236, September 2015.
- [19] Sahib Khan, Nasir Ahmad, Muneeza Wahid, Muhammad Naeem and B. Baloch, (2015) “Design of Circular Stud Antenna and Parametric Analysis”, *Sindh University Research Journal (Science Series)*, vol. 47, issue. 2, pp. 231-236, June 2015.
- [20] Hazrat Ali, Nasir Ahmad, Xianwei Zhou (2015) “Automatic speech recognition of Urdu words using Linear Discriminant Analysis”, *Journal of Intelligent and Fuzzy Systems*, vol. 28, issue. 5, pp. 2369-2375, April 2015, Impact Factor 1.81.
- [21] Sahib Khan, Nasir Ahmad, Muneeza Wahid, and B. Baloch, Muhammad Naeem (2015) “Design and Characterization of Rectangular Stud Antenna”, *Sindh University Research Journal (Science Series)*, vol. 47, issue. 1, pp. 29-34, March 2015.

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- [22] Nasir Ahmad, Yasir Saleem Afiridi, Jawad Saleem Afiridi and B. Baloch (2014) “Robust Automatic Speech Recognition in Real Life Environment using Active Noise Control”, *Sindh University Research Journal (Science Series)*, vol. 46, issue. 4, pp. 433-437, December 2014.
- [23] Shakir Ullah, Nasir Ahmad, Kashif Ahmad and Syed Riaz-ul-Hassnain (2014) “Expressions Invariant Face Recognition”, *Sindh University Research Journal (Science Series)* vol. 46, issue. 4, pp. 419-422, December 2014.
- [24] Muhammad Abeer Irfan, Nasir Ahmad, and Sahib Khan (2014) “Analysis of Varying Least Significant Bits DCT and Spatial Domain Steganography”, *Sindh University Research Journal (Science Series)* vol. 46, issue. 3, pp. 301-306, September 2014.
- [25] Hazrat Ali, Nasir Ahmad, Xianwei Zhou, Khalid Iqbal, and Sahibzada Muhammad Ali (2014) “DWT features performance analysis for automatic speech recognition of Urdu”, *SpringerPlus*, vol. 3, no. 204, April 2014 (doi:10.1186/2193-1801-3-204).
- [26] Alauddin, Haseeb Zafar, Tariqullah Jan, Nasir Ahmad and Syed Riaz-ul-Hassnain (2014) “Efficient Variable Least Significant Bits Audio Steganography (VLSBAS) Algorithms”, *Sindh University Research Journal (Science Series)* vol. 46, issue. 1, pp. 53-58, March 2014.
- [27] Muhammad Akbar Ali Khan, Sahibzada Abdur Rehman Abid, Nasir Ahmad, Arbab Waseem Abbas and Muhammad Waqas (2014) “Formant based Pashto Digits and Numbers Synthesizer”, *Sindh University Research Journal (Science Series)* vol. 46, issue. 1, pp. 47-52, March 2014.

## Journal Publications for the Year 2013

- [28] Nasir Ahmad, Asif Ali Khan, Sahibzada Abdur Rehman Abid, Muhammad Yasir and Naseem Ullah (2013) "Pashto Isolated Character Recognition Using K-NN Classifier", *Sindh University Research Journal (Science Series)* vol. 45, issue. 4, pp. 679-682, December 2013.
- [29] Sahib Khan, Muhammad Nawaz Khan, Somia Iqbal, Syed Yaqoob Shah, Nasir Ahmad (2013) "Implementation of Variable Tone Variable Bits Gray-scale Image Steganography using Discrete Cosine Transform", *Journal of Signal and Information Processing*, vol. 4, issue. 4, pp. 343-350, November 2013.
- [30] Kashif Ahmad, Nasir Ahmad, Rehan Ullah Khan, Jebran Khan, Atta-ur-Rehman, Syed Riaz-ul Hassnain (2013), "Evaluation of SIFT and SURF using Bag of Words Model on a Very Large Dataset", *Sindh University Research journal*, vol. 45, issue. 3, pp. 492-495, September 2013.
- [31] Hameed Ullah Khan, and Nasir Ahmed (2013), "A genealogical study of the origin of Pashtuns", *Intelligent Computing Theories*. Springer Berlin Heidelberg, pp. 402-410.
- [32] Muhammad Akbar Ali Khan, Sahibzada Abdur Rehman Abid, Fatima Tuz Zuhra and Nasir Ahmad, (2013) "The Development of Pashto Speech Synthesis System", *International Journal of Computer Applications*, vol. 71, issue. 24, pp. 49-53, June 2013.
- [33] Sahibzada Abdur Rehman Abid, Nasir Ahmad, Muhammad Akbar Ali Khan and Fatima Tuz Zuhra. (2013) "Concatenative based Pashto Digits and Numbers Synthesizer", *International Journal of Computer Applications*, vol. 72, issue. 6, pp. 39-42, May 2013.
- [34] Muhammad Sohaib, Nasir Ahmed and Nasru Minallah, (2013) "Image Enhancement for the 3-D Reconstruction in the Uncontrolled Environment using Shape from Silhouette", *International Journal of Computer Applications*, vol. 70, issue. 11, pp. 33-38, May 2013.

- [35]Rafaqat Alam Khan, Nasir Ahmad and Nasru Minallah (2013), “Classification and Regression Analysis of the Prognostic Breast Cancer using Generation Optimizing Algorithms”, *International Journal of Computer Applications (IJCA)*, vol. 68, issue. 25, April 2013, pp. 42-47.
- [36]Kashif Ahmad, Nasir Ahmad, Kamal Haider and M. Jawad Ikram (2013), “Effect of Salient Features in Object Recognition”, *International Journal of Computer Applications (IJCA)*, vol. 61, issue. 13, January 2013, pp. 34-39.

## **Journal Publications for the Year 2012**

- [37] Khalil Khan, Rehan Ullah, Nasir Ahmad, and Khwaja Naveed (2012) “Urdu Character Recognition using Principal Component Analysis”, *International Journal of Computer Applications (IJCA)*, vol. 60, issue. 11, December 2012.
- [38] Ali J., Khan R., Ahmad N., and Maqsood I. (2012), “Random Forests and Decision Trees”, *International Journal of Computer Science Issues (IJCSI)*, vol. 9, issue. 5, no. 5, September 2012.
- [39] Muhammad Siddique, Rehan Ullah Khan, Khalil Khan, and Nasir Ahmad, (2012) “Performance Evaluation of Super-Resolution Reconstruction Algorithms Based on Linear Magnifications”, *IJCSI International Journal of Computer Science Issues*, vol. 9, issue. 3, no 2, May 2012.



## Conference Publications for the Year 2017

- [1] Sahib Khan, Muhmmad Abeer Irfan, Muhammad Ismail, Tawab Khan and Nasir Ahmad (2017) “Dual Lossless Compression based Image Steganography for Low Data Rate Channels”, *2017 International conference on Communication Technologies (ComTech-2017)*, April 19-21 2017, National University of Sciences and Technology (NUST), Islamabad, Pakistan.
- [2] Khalil Khan, Nasir Ahmad, Irfan Uddin, ME Mazhar, Rehan Ullah Khan (2017) “FaceParser – A New Face Segmentation Approach and Labeled Database”, *International Conference on Engineering, Technologies and Applied Sciences*, January 23-25 2017, Malaysia.

## Conference Publications for the Year 2016

- [3] Sahib Khan, Tawab Khan, Muhammad Ismail, Muhammad Haseeb, Rehan Ashraf, Nasir Ahmad (2016), “5LSB Steganography using Monotonic RGB Color Image as Cover Medium”, *6th IEEE International Conference on Innovative Technology (INTECH'2016)*, Islamabad, Pakistan Sept. 19-21, 2016, pp. 275-278.
  
- [4] Sahib Khan, Muhammad Ismail, M. Haseeb Zafar, Tawab Khan, Muhammad Naeem, Nasir Ahmad (2016) “Analysis of Data hiding in R, G and B Channels of Color Image using Various Number of LSBs”, *6th IEEE International Conference on Innovative Technology (INTECH'2016)*, Islamabad, Pakistan Sept. 19-21, 2016, pp. 270-274.
  
- [5] Hazrat Ali, Nasir Ahmad, Abdul Hafeez, (2016), “Urdu Speech Corpus and Preliminary Results on Speech Recognition”, *International Conference on Engineering Applications of Neural Networks*. Springer International Publishing, pp. 317-325.
  
- [6] Tanvir Ahmad, Nasir Ahmad and Yaseen Ahmad (2016), “Dynamic Wind Flow Modelling – A Step towards Green Energy in Pakistan”, *International Conference on Environmentally Sustainable Development (ESDev)*, Abbottabad, Pakistan, April 25th to 27th 2016.

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- [7] Khalil Khan, Nasir Ahmad, Rehan Ullah Khan, and Ali Alkhalifah (2015), “Urdu Text Classification Using Decision Trees”, *2015 12th International Conference on High-capacity Optical Networks and Enabling/Emerging Technologies (HONET)*, Islamabad, 2015, pp. 1-4. DOI: 10.1109/HONET.2015.7395445.
- [8] Sahib Khan, Nasir Ahmad, Shamrez Khan, Tawab Khan, Amir Hussain and Abubakar Siddique (2015), “Wrinkles Energy based age estimation Using Discrete Cosine Transform”, *2015 IEEE International Conference on Emerging Technologies (ICET)*, pp. 1-4.
- [9] Sahib Khan, Nasir Ahmad, Muhammad Ismail, Nasru Minallah, and Tawab Khan (2015), “A Secure True Edge based 4 Least Significant Bits Steganography”, *IEEE International Conference on Emerging Technologies (ICET)*, pp. 1-4.
- [10] Umair Khan, Nasru Minallah, Ahmad Junaid, Kashif Gul and Nasir Ahmad (2015), “Parallelepiped and Mahalanobis Distance Based Classification for Forestry Identification in Pakistan”, *IEEE International Conference on Emerging Technologies (ICET)*.
- [11] Nasir Ahmad, Saddam Hussain, Kashif Ahmad, and Nicola Conci, (2015), “Computer vision based room interior design”, *Eighth International Conference on Machine Vision*, pp. 98751G-98751G. International Society for Optics and Photonics.
- [12] Minallah, Nasru, Amaad Khalil, and Nasir Ahmad. (2015) “Iterative H. 264 video decoding using mutual information exchangeable DSTS and SP modulation”, *IEEE/CIC International Conference on Communications in China (ICCC)*, 2015, pp. 1-5.
- [13] Sumayyea Salahuddin, Muniba Ashfaq, Madiha Sher, Laiq Hasan, Nasir Ahmad, (2015) “Performance Comparison and Analysis of DivSufSort-Based and FM-index”, *The IEEE 10th International Conference on Computer Science & Education*, Fitzwilliam College, Cambridge University, UK, July 22-24, 2015, pp. 64-69.

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- [14] Sahibzada Abdur Rehman Abid, Nasir Ahmad, Muhammad Akbar Ali Khan and Jebran Khan, (2014) “Speech Synthesizer for the Pashto Continuous Speech based on Formant Technique”, *First International Conference on Modern Communication & Computing Technologies (MCCT'14)*, Nawabshah, Pakistan, February 26–28, 2014.

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- [15] Hazrat Ali, Nasir Ahmad, Xianwei Zhou, Muhammad Ali, Ali Asghar (2013), “Linear Discriminant Analysis Based Approach for Automatic Speech Recognition of Urdu Isolated Words” *2013 International Multitopic Conference (IMTIC'13)*, Springer CCIS, Mehran University Jamshoro, Pakistan, December 18-20, 2013.
- [16] Kashif Ahmad, Nasir Ahmad, Rehan Ullah Khan, Akhthar Hussain Khalil (2013), “Saliency based Skin Detection in Complex Scenes”, *Sixth International Conference on Machine Vision (ICMV 2013)*, International Society for Optics and Photonics, London, United Kingdom, November 16–17, 2013.
- [17] Irfan, M. and Shah, H. A. and Ahmad, N. and Aman-ur-Rabi, (2013), “PAPR Optimization Of SC-FDMA Signal Using M-Ary Signaling”, *Proceedings of 2013 3rd International Conference on Computer, Control and Communication (IC4)*, Karachi, Pakistani, pp. 1-4, September 25-26, 2013.
- [18] Hurmat Ali Shah, Laiq Hasan, Nasir Ahmad (2013), “An optimized and low-cost FPGA-based DNA sequence alignment - A step towards personal genomics”, *Proceedings of 2013 35th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, Osaka, Japan, July 2013, pp 2696-2699.
- [19] Hazrat Ali, Nasir Ahmad, Xianwei Zhou, (2013) “Development of Language Resource and Automatic Speech Recognition System for Pashto” *TERENA Networking Conference, TNC2013*, June 2013, Maastricht, The Netherlands. (Grant of TERENA Student Award to Mr. Hazrat Ali for attending the conference).

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- [20] Ahmad I., Ahmad N., Ali H., and Ahmad G., (2012), "The Development of Isolated Words Corpus of Pashto for the Automatic Speech Recognition Research", *Proceedings of the 1<sup>st</sup> International Conference on Robotics & Artificial Intelligence ICRAI-2012*, National University of Science and Technology, Rawalpindi, Pakistan, October 22, 2012.
- [21] Shah S. Y., Ahmad N., and Naeem M., (2012), "Identification of Critical Bands in DCT Domain Representation for Fingerprint Recognition", *Proceedings of the 18<sup>th</sup> International Conference on Automation & Computing*, Loughborough University, Leicestershire, UK, September 8, 2012, pp. 119-122.
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- [25] Ali H., Ahmad N., Yahya K. M., and Farooq O. (2012), "A Medium Vocabulary Urdu Isolated Words Balanced Corpus for Automatic Speech Recognition", *2012 International Conference on Electronics Computer Technology (ICECT 2012)*, Kanyakumari, India, April 6-8, 2012, pp. 473-476.

## Conference Publications for the Year 2010

- [26] Ahmad, N., Mulvaney, D., Datta S., and Farooq, O. (2010), "Stream Weights Optimisation for Audio-Visual Automatic Speech Recognition", *Proceedings of National Symposium on Acoustics NSA-2010*, Pt. L. M. S. Govt P. G. College, Rishikesh, India, pp. 112-117.

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- [27] Ahmad, N., Mulvaney, D., Datta S., and Farooq, O. (2009), "Dynamic Visual Features for Audio-Visual Automatic Speech Recognition", *Proceedings of National Symposium on Acoustics NSA-2009*, Research Centre Imarat, Andhra Pradesh, India, pp. 91-96.



## Conference Publications for the Year 2008

- [28] Ahmad, N., Datta S., Mulvaney, D., and Farooq, O. (2008), “A comparison of visual features for audiovisual automatic speech recognition”, *Proceedings of the 2nd joint conference of the Acoustical Society of America (ASA) and the European Acoustics Association (EAA), Acoustics'08, Paris*, pp. 6445-6449.  
Impact Factor. 2.65