List of Publications

(A) Journal Publications

1. Shailendra Tiwari, Rajeev Srivastava, "A Hybrid-Cascaded Framework for PET and SPECT Image Reconstruction", Journal of Medical Imaging & Health Informatics (JMIHI), American Scientific Publishers, USA, (SCI. Indexed, Impact Factor (IF) 0.642), (Accepted, September 8, 2015).
2. Shailendra Tiwari, Rajeev Srivastava, "An OSEM based hybrid-cascaded framework for PET/SPECT Image Reconstruction", Int. Journal of Biomedical Engineering and Technology (IJBET), U.K., Vol. 18, No. 4, pp. 310-332, 2015, InderScience Publishers (Scopus Indexed).
3. Shailendra Tiwari, Rajeev Srivastava, "On the choice and evaluation of regularization priors in penalized maximum-likelihood image reconstruction for CT/PET", Proceedings of the National Academy of Sciences, India Section A: Physical Sciences (NASA), Springer Journals, (Scopus Indexed), SCI Impact Factor (IF) 0.242 submitted on 22nd May. 2015, (under review).

(B) International/National Conferences (10)

4. Shailendra Tiwari, Rajeev Srivastava, "An Efficient and Modified Median Root Prior based Framework for PET/SPECT reconstruction Algorithm, 8th International Conference on Contemporary Computing (IC3), Noida, India. (Indexed in Scopus (Elsevier), DBLP, IEEE Explore Computer Society.
5. Shailendra Tiwari, Rajeev Srivastava, "A Probabilistic Patch based hybrid framework for CT/PET Image Reconstruction", 3rd International Conference on Signal Processing and Communication, June. 23-25, 2015, Smart Innovation, Systems and Technologies (Vol. 43, Chapter 33) Springer Verlag Publication LNCS (Indexed in Scopus)
6. Shailendra Tiwari, Rajeev Srivastava, "A Hybrid-Cascaded Framework for MLEM based Image Reconstruction", International Conference on Signal Processing and Communication, Mar. 16-18, 2015 Noida, India, IEEE Explore Signal Processing and Communication Society
7. Shailendra Tiwari, Rajeev Srivastava, "An Efficient Hybrid- Cascaded Framework for Emission Computed Tomography using OSEM Image Reconstruction Algorithm", International Conference on Recent cognizance in wireless communication & image processing, Jaipur, India. Springer Publication, LNCS.
8. Shailendra Tiwari, Rajeev Srivastava, "A PDE based Expectation Maximization algorithm adapted to Poisson noise for Medical Image Reconstruction", 14th

IEEE International Symposium on Signal Processing and Information Technology (ISSPIT-2014), Dec. 15-17, 2014, Noida. IEEE Explore, Signal Processing Society

9. Shailendra Tiwari, Rajeev Srivastava, "Review and Comparative Analy sis of Medical Image Reconstruction Algorithms", National Conference on Present Scenario and Future Trends in Biomedical Engineering and Healthcare technologies, Oct. 17-18, 2014, School of Biomedical Engineering, IIT (BHU), Varanasi, U.P.
10. Shailendra Tiwari, Rajeev Srivastava, "A Complex Diffusion Prior Based Bayesian Statistical Reconstruction Approach for Low-Dose X-Ray Computed Tomography", International Workshop/Conference on Bayesian Theory and Applications, Jan 6-10, 2013,DST Centre for Inter disciplinary Mathematical Sciences & Department of Statistics Banaras Hindu University, Varanasi. Online Available at ATLAS
11. Shailendra Tiwari, Rajeev Srivastava (December 2012) "Regularized MLEM reconstruction algorithm adapted to Poisson noise for SPECT/PET images" In Proceedings of AISC-2012, International Conference IIT (BHU), Varanasi
12. Shailendra Tiwari, Rajeev Srivastava "Comparative Analysis of Filtered Backprojection and Algebraic Image Reconstruction using MATLAB, National Conference on 'Mathematical Modelling and Computer Simulation (MMCS-2012) during March 23-25, 2012 at the Department of Applied Mathematics, IIT (BHU), Varanasi.
13. Shailendra Tiwari, Rajeev Srivastava "Medical Imaging Techniques and Image Reconstruction: An Overview" National Conference on Artificial Intelligence and Agents: Theory & Applications December 2011, IIT-BHU Varanasi

(C) Book Chapters (2)

14. Shailendra Tiwari, Rajeev Srivastava, "Research and Developments in Medical Image Reconstruction Methods and its Applications" Chapter 14, (pages 274-312) Research Developments in Computer Vision and Image Processing: Methodologies and Applications, IGI Global Publication
15. Shailendra Tiwari, Rajeev Srivastava, "On the evaluation and selection of Priors for MLEM based CT and PET image reconstruction", International Conference on Emerging Trends in Information Technology (ICETIT-2015), February 21-22, 2015 Babasaheb Bhimrao Ambedkar Univesrity (BBAU), Central University, Lucknow, Shroff Publishers & Distributors Pvt. Ltd, Mumbai.