

List of publications of faculty members of our department that have come out as a result of collaboration with foreign research groups. These publications (in international journals) have at least one author from IIT Indore and one from the foreign institute/university.

Dr. Sk. Safique Ahmad

1) S. S. Ahmad and V. Mhermann, *Backward errors for eigenvalues and eigenvectors of Hermitian, skew-Hermitian, H-even and H-odd matrix polynomials*, *Linear and Multilinear Algebra* Vol. 61, pp. 1244-1266, 2013

2) S. S. Ahmad, V Mhermann, *Perturbation analysis for complex symmetric, skew symmetric, even, and odd matrix polynomials*, *Electronic transaction of Numerical Analysis* Vol. 38, pp. 275-302, 2011.

3) *Backward errors and pseudospectra for structured nonlinear eigenvalue problems*, *Operators and Matrices*, preprint

Dr. Swadesh Kumar Shaoo

1) S. Ponnusamy, S. K. Sahoo, and H. Yanagihara, *Radius problems associated with sections of univalent analytic functions*, *Non-linear Analysis*, vol. 95, pp. 219 - 228, 2014.

2) S. Ponnusamy, S. K. Sahoo, T. Sugawa, *Radius problems associated with pre-Schwarzian and Schwarzian derivatives*, *Analysis (Berlin)*, vol. 34, pp. 163 - 171, 2014.

3) R. Klen, Y. Li, S. K. Sahoo, and M. Vuorinen, *On the stability of φ -uniform domains*, *Monatshefte für Mathematik*, vol. 174, pp. 231 -258, 2014.

4) Z. Ibragimov, M. R. Mohapatra, S. K. Sahoo, and X.-H. Zhang, *Geometry of the Cassinian metric and its inner metric*, *Bull. Malaysian Math. Sci. Soc.*, 2015, Accepted.

Edited Volume:

1) G. Bharali, D. Minda, S. Ponnusamy, and S. K. Sahoo (Editors), *Complex Analysis and Conformal Geometry*, *J. Analysis*, 2013.

Dr. Md. Aquil Khan

1) Khan, M. A., Banerjee, M. and Rieke, R.: [An Update Logic for Information Systems](#). *International Journal of Approximate Reasoning*, 55, 436-456, Elsevier.

2) Banerjee, M., Ju, S., Khan, M. A. and Tang, L.: [Open World Models: a View from Rough Set Theory](#). In: *Facets of Uncertainties and Applications*, **Springer Proceedings in Mathematics & Statistics, Volume 125**, Chapter 6. Springer-Verlag.