

Journal papers

Single Author Journal paper:

[J1] **H. S. Shekhawat**, *Frequency Truncated Discrete-Time System Norm*, in IEEE Control Systems Letters, vol. 4, no. 3, pp. 590-595, July 2020.

Journal papers in collaboration:

[J2] **H. S. Shekhawat** and G. Meinsma. *A sampled-data approach to optimal relaxed causal sampling*. Accepted in Mathematics of control, signals and systems.

[J3] Deepika Gupta and **H S Shekhawat**, *High-band Feature Extraction for Artificial Bandwidth Extension Using Deep Neural Network and H^∞ optimisation*. IET Signal Processing Journal, vol 14, no. 10, pp. 783-790, Dec 2020.

[J4] **H. S. Shekhawat** and S. Weiland. *A locally convergent Jacobi iteration for tensor decompositions*. Multidimensional Systems and Signal Processing, 29(3), 1075-1094, 2018.

[J5] **H. S. Shekhawat** and G. Meinsma. *A sampled-data approach to optimal non-causal downsampling*. Mathematics of control, signals and systems, 27(3):277-315, 2015.

[J6] G. Meinsma and **H. S. Shekhawat**. *Frequency-truncated system norms*. Automatica, 47(8):1842-1845, 2011. doi:10.1016/j.automatica.2011.05.004

Single Author Journal Paper in Major Revision:

[J7] **H S. Shekhawat**, *Correlation and Subtraction*, Major Revision in the College Mathematics Journal.

Collaborative Journal Papers in Major Revision:

[J8] Deepika Gupta and **H S Shekhawat**, *Artificial Bandwidth Extension Using Deep Neural Network and Hoo sampled-data control theory*, Major Revision in Journal of Speech Communication

[J9] Deepika Gupta, **H S Shekhawat**, R Sinha, *A New Framework for Artificial Bandwidth Extension using Hoo Filtering*, Major Revision in Journal of Circuits, Systems, and Signal Processing.

[J10] Sandeep Pandey, **HS Shekhawat**, SRM Prasanna, *Attention Gated Tensor Neural Network Architectures for Speech Emotion Recognition*, Major Revision in Biomedical Signal Processing and Control Journal.

Conference papers:

1. Sharu Goel, Sandeep K Pandey, **H S Shekhawat**, *Analysis of Emotional Content in Indian Political Speeches*, IHC12020, South Korea.
2. D. Gupta, **H.S. Shekhawat**, *Artificial Bandwidth Extension Using H^∞ Optimization*. Proc. Interspeech 2019, 3421-3425.
3. B Sehgal, **H S Shekhawat**, SK Jana. *Automatic Radar Target Identification Using Radar Cross Section Fluctuations and Recurrent Neural Networks*. Tencon 2019, India.
4. S Pandey, **H S Shekhawat**, S R M Prasanna. *Emotion Recognition from Raw Speech using Wavenet*. Tencon 2019, India
5. S Pandey, **H S Shekhawat**, S R M Prasanna. *Deep Learning Techniques for Speech Emotion Recognition : A Review*. Radioelektronika. 2019, Czech Republic.
6. D Gupta, **H S Shekhawat**. *Artificial Bandwidth Extension Using the H^∞ Optimization and Speech Production Model*. Radioelektronika, 2019, Czech Republic.
7. B Sehgal, **H S Shekhawat**, S K Jana. *Automatic Target Recognition Using Recurrent Neural Networks*. International Conference on Range Technology (ICORT),2019, India.
8. S Pandey, J Sarfaraz , S R M Prasanna, **H S Shekhawat**. *Speaker Identification Using Tensor Decomposition of Acoustic Models*. Tencon, 2018, South Korea.
9. **H. S. Shekhawat**. *Discrete frequency truncated system norm*. In MTNS Symposium, July 2016, USA.
10. **H. S. Shekhawat** and S. Weiland. *A novel computational scheme for low rank approximations of tensors*. ECC, 2015, Austria.
11. **H. S. Shekhawat** and S. Weiland. *On the problem of low-rank approximation of tensors*. In MTNS Symposium, 2014, Netherlands.
12. **H. S. Shekhawat** and G. Meinsma. *L^2 and L^∞ optimal downsampling from system theoretic viewpoint*. In MTNS Symposium, 2012, Australia.
13. **H. S. Shekhawat** and G. Meinsma. *Optimal relaxed causal sampler using sampled-data system theory*. In MTNS Symposium, 2012, Australia.

14. G.Meinsma and **H. S. Shekhawat**. *Truncated norms and limitations on signal reconstruction*. In MTNS Symposium, 2010, Hungary.