Dr. Gaurav Sundaram

+91 7765876723 | gauravsundaram2007@gmail.com | LinkedIn | GitHub | Google Scholar

Education

Indian Institute of Technology Patna — Patna, Bihar, India
PhD in Electrical Engineering; — *July 2023 (Defended Successfully Viva Voce)*
Coursework completed; ***GPA: 8.23/10*** — *May 2019 – May 2020*

National Institute of Technology Patna — Patna, Bihar, India
MTech ; ***GPA: 8.19/10*** — *Jun 2012 – May 2014*

Institute of Technology and Management, Gurgaon — MDU, Rohtak, India
BTech in Electronics and Instrumentation Engineering; ***Percentage: 72%*** — *2010*

Patna Scienece College — Patna, Bihar, India
I.Sc. ; Percentage: 66% — *2003 – 2005*

B.D Public School — Patna, Bihar, India
10th. ; Percentage: 84% — *2003*

Skills

Programming: Python, MATLAB, MS Office

Languages: English (Professional), Hindi (Professional)

Publications (Journals and Conferences)

- **Gaurav Sundaram**, Shourya, S., Jha, R. K., Maharana, R. R., Banda, L, Kumar, S. (2023, March). A Novel Encryption Approach with Fractional Discrete Cosine Transform and Cascading Discrete Orthonormal Stockwell Transform. In 2023 International Conference on Fractional Differentiation and Its Applications (ICFDA), UAE, Dubai (pp. 1-5). IEEE
- **Gaurav Sundaram**, Panna, B., Jha, R. K., Kumar, S. (2023). Image encryption based on fractional discrete cosine transform and DWT with interplane arrangements in dost domain. IET Image Processing, 17(4), 1195-1207.
- **Gaurav Sundaram**, Jha, R. K., Rahman, M. A., Meena, R., Kumar, S., Kumar, P. (2022). Biomedical Watermaking Using Arnold Transformation. In Recent Trends in Electronics and Communication: Select Proceedings of VCAS 2020 (pp. 761-774). Springer Singapore.
- Kumar, S., **Gaurav Sundaram**, Shourya, S., Jha, R. K., Maharana, R. R., Saini, G. (2023, March). A Novel Signal Detector based on Approximated Fractional Integrator in Frequency Domain. In 2023 International Conference on Fractional Differentiation and Its Applications (ICFDA) (pp. 1-5). IEEE.
- Bhandari Chitra, Sumit Kumar, Sudha Chauhan, M. A. Rahman, **Gaurav Sundaram**, Rajib Kumar Jha, Shyam Sundar, A. R. Verma, and Yashvir Singh. "Biomedical image encryption based on fractional discrete cosine transform with singular value decomposition and chaotic system." In 2019 International Conference on Computing, Power and Communication Technologies (GUCON), pp. 520-523. IEEE, 2019.
- Kumar, Sumit, Sudha Chauhan, **Gaurav Sundaram**, Mausam Chouksey, and Rajib Kumar Jha. "An FPGA based practical implementation of stochastic resonance for image enhancement." In 25th international conference on noise and fluctuations (ICNF 2019), no. CONF. ICLAB, 2019.

Awards & Achievements

Visvesvaraya fellowship grant from MeitY, Govt. of India

Qualified Graduate Aptitude Test in Engineering (GATE)

Relevant Coursework

Major coursework: Statistical Signal Processing, Statistics, English Communications.

Minor coursework: Artificial Intelligence, Image and Video Processing.