

Dr. Ranu Gupta

Assistant Professor (SG)

Education: B.E. (Electronics Engg.), M.E. (Digital Communication), Ph.D.

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Areas of Interest: Image Processing, Digital Electronics & Microprocessor

Brief Profile:

She has done B.E. from Nagpur University and M.Tech. from RGPV university. MBA from Indira Gandhi National Open University, Delhi (IGNOU), while doing the job in Jaypee Rewa Cement Plant for six years. She completed PhD. in January 2019 from JUET, Guna. She has seventeen years of teaching and industrial experience. Has attended International Conference, workshop and faculty development programs. Has published books and papers. Reviewer of few reputed journals.

Publication@JUET

[Google Scholar Profile Link](#)

1. Ranu Gupta, "Image Compression using Haar Wavelet Transform and Chaos-Based Encryption" International Journal of Computer Science Issues, Vol. 11, Issue 2, No 1, March 2014.
2. Ranu Gupta, "An Efficient Way of Medical Image Encryption using Cat Map and Chaotic Logistic Function", International Journal of Computer Science and Information Security (IJCSIS), Vol. 15, No. 11, November 2017.
3. Ranu Gupta, Rahul Pachauri, Ashutosh K. Singh, "Despeckling of Ultrasound Images Using Modified Local Statistics Mean Variance Filter", Computer modeling in Engineering and Sciences, vol.114, no.1, May 2018.
4. Ranu Gupta, Rahul Pachauri, Ashutosh K. Singh, "An Effective Approach of Secured Medical Image Transmission Using Encryption Method", Molecular & Cellular biomechanics. doi: 10.3970/mcb.2018.00114.
5. Ranu Gupta, Rahul Pachauri, Ashutosh K. Singh, "Linear Despeckle approach for ultrasound carotid artery images", Journal of Intelligent & Fuzzy Systems, vol. 35, pp.1807-1816, 2018.
6. Ranu Gupta, Rahul Pachauri, Ashutosh K. Singh, "Image Encryption Method Using New Concept of Compound Blood Transfusion Rule with Multiple Chaotic Maps", Current Medical Imaging, vol. 15, No. 0, 2019.
7. Kamlesh Gupta, Ranu Gupta, "An Ethical Approach of Block Based Image Encryption Using Chaotic Map", International Journal of Security and Its Applications Vol.9, No.9, 2015.

Workshop / Conference attended

1. Fourteenth Annual Conference of Gwalior Academy of Mathematical Sciences (GAMS) and a Symposium on Computational Mathematics and its Application to Engineering, Management and Biology in IPS College of Technology and Management, Gwalior(M.P.) from July 17-19, 2009.
2. Five days, Workshop conducted by IUCEE FLI on "Digital Communication and Image Processing" By Dr. Gaurav Sharma of University of Rochester, USA, at ECE Department of JUET, Guna from 6-10 June 2011.
3. Five days "International workshop on "Selected Topics on Distributed Systems And Computer Security" organized by IUCEE at JUET,Guna, from 30-3 June, 2011.
4. One week National Workshop conducted by TEQIP-II and IET on "Signal Processing",in SATI, Vidisha, M.P from 4th-6th Dec., 2014.
5. Three days Faculty Development Programme on "Workshop on VLSI Design", in JUET, Guna (M.P.), from 14-16 July, 2015.
6. Three days "International Conference on Signal Processing", in SATI, Vidisha, M.P from 7-9 Nov. 2016.
7. Three days "National Workshop on High Performance VLSI Architecture for Digital Signal Processing Application: Design & Implimentation", in JUET, Guna (M.P.), from 9-11 Sep. 2016.
8. Two days "National Workshop on Application of Mat lab in Science & Engineering", in JUET, Guna (M.P.), from 11-12 Feb. 2017.

Books Published

"Employees Engagement: In Cadbury India Ltd" LAP LAMBERT Academic Publishing, ISBN-10: 384733994X, ISBN-13: 9783847339946, January , 2012.

Membership: Life Time member of Indian Science Congress, IETE