Name and Designation: Dr.K.Swaraja

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Educational Details: B.Tech (ECE), JNTUA, Anantapur, AndhraPradesh

M.Tech (Digital Electronics and Communication Systems), AITS, Rajampet, AndhraPradesh

P.hD (Image Processing), JNTUH, Hyderabad, Telangana

Professional Background:

- Presently working as Professor, Department of ECE in Gokaraju Rangaraju Institute of Engineering and Technology (GRIET), Bachupally, Hyderabad, from (2014 till date).
- Worked at Malla Reddy Engineering College(MREC), Secunderabad (8 Years) as Associate Professor, during (2006-2014).
- Worked at Annamacharya Institute of Technology & Science (AITS), Rajampet (5 Years) as Assistant Professor, during (2001-2006).

Committee Work: External lab Exams Co-ordinator, NBA, NAAC 6th Criteria Co-ordinator, IIT Bombay spoken tutorial co-ordinator.

Courses Taught:

UG Level:

Digital Image Processing

Cellular & Mobile Communications

Digital Communications

Digital signal processing

Signals and systems

Electronic Circuit Analysis

Linear Integrated Circuits & Analysis

Switching Theory & Logic Design

Communication Theory

Analog Communications

Principles of Communication

Radar Engineering

Digital Integrated and circuits applications

PG Level:

Image and video processing

Advanced Data Communications

Coding Theory and Techniques

PUBLICATIONS:

International Journals:

- 1. Swaraja, K., Meenakshi, K. and Kora, P., 2020. An optimized blind dual medical image watermarking framework for tamper localization and content authentication in secured telemedicine. *Biomedical Signal Processing and Control*, 55, p.101665. (SCIENCE CITATION INDEX EXPANDED)
- 2. Kuraparthi, S., Kollati, M., Kora, P. (2019). Robust optimized discrete wavelet transform-singular value decomposition based video watermarking. Traitement du Signal, Vol. 36, No. 6, pp. 565-573. https://doi.org/10.18280/ts.360612. (SCIENCE CITATION INDEX EXPANDED)
- 3. Kora, P., Meenakshi, K., Swaraja, K., Rajani, A., & Islam, M. K. (2019). Detection of Cardiac arrhythmia using fuzzy logic. Informatics in Medicine Unlocked, 17, 100257. (SCOPUS INDEXED)
- 4. Leelavanthi, C., Padmavathi, K., Swaraja, K., Meenakshi, K., & Samson, M. IoT Based Smart Surveillance System for Healthcare Monitoring using Raspberry PI, IJTEE,2019. (SCOPUS INDEXED)
- 5. Rakesh, G., Kora, P., Swaraja, K., Meenakshi, K., & Karuna, G. Gsm Based Face Recognition using Pir Sensor on Raspberry Pi 3, IJTEE 2019 (SCOPUS INDEXED)
- 6. Yasasvy, T., Sushil, K. V., Meenakshi, K., Swaraja, K., & Kora, P. A Hybrid Blind Watermarking With Redundant Discrete Wavelet and Hadamard Transform, IJTEE 2019 (SCOPUS INDEXED)
- 7. Sandeep, K., Kora, P., Swaraja, K., Meenakshi, K., Pampana, L.K., ECG classification using machine learning, International Journal of Recent Technology and Engineering, 2019. (SCOPUS INDEXED)
- 8. Swaraja K, Meenakshi K, Padmavathi kora, Mamatha Samson, Karuna G, Ushasri A, A secure architecture of design for testability structures, International Journal of Recent Technology and Engineering, Open Access, Volume 8, Issue 2, July 2019, Pages 2816-2820. (SCOPUS INDEXED)
- 9. Swaraja K (2018), Medical image region based watermarking for secured telemedicine, Multimed Tools Appl, https://doi.org/10.1007/s11042-0186020-7. (SCIENCE CITATION INDEX EXPANDED)
- 10. K.Swaraja, "Protection of Medical Image Watermarking", Journal of Advanced Research in Dynamical and Control Systems (JARDCS), Special Issue 11, July 2017, ISSN: 1943-023X. (SCOPUS INDEXED)
- 11. Swaraja K, Madhaveelatha Y, Reddy VS. Robust Video Watermarking by amalgamation of Image transforms and optimized Firefly Algorithm. International Journal of Applied Engineering Research. 2016; 11(1):216-25. (SCOPUS INDEXED)

12. K.Swaraja, Y.Madhaveelatha, V.S.K.Reddy, "A secure method of optimized low complexity video watermarking", ARPN Journal of Engineering and Applied Sciences, VOL. 10, NO. 4, MARCH 2015, ISSN 1819-6608, pp.1822-1827. (SCOPUS INDEXED)

International conferences:

- 13. Kumari, C. U., Kora, P., Meenakshi, K., & Swaraja, K. (2019, March). Short Term and Long Term Path Loss Estimation in Urban, SubUrban and Rural Areas. In *2019 3rd International Conference on Computing Methodologies and Communication (ICCMC)* (pp. 114-117). IEEE. (SCOPUS INDEXED)
- 14. Kora, P., Kumari, C. U., Swaraja, K., & Meenakshi, K. (2019, February). Atrial Fibrillation detection using Discrete Wavelet Transform. In 2019 IEEE International Conference on Electrical, Computer and Communication Technologies (ICECCT) (pp. 1-3). IEEE. (SCOPUS INDEXED)
- 15. Meenakshi, K., Swaraja, K., & Kora, P. (2019). A Robust DCT-SVD Based Video Watermarking Using Zigzag Scanning. In *Soft Computing and Signal Processing* (pp. 477-485). Springer, Singapore. **(SCOPUS INDEXED)**
- 16. Kora, P., Meenakshi, K., & Swaraja, K. (2019). Detection of Cardiac Arrhythmia Using Convolutional Neural Network. In *Soft Computing and Signal Processing* (pp. 519-526). Springer, Singapore. **(SCOPUS INDEXED)**
- 17. Meenakshi, K., Swaraja, K., & Ch, U. K. (2019, March). Grading of quality in tomatoes using multi-class SVM. In 2019 3rd International Conference on Computing Methodologies and Communication (ICCMC) (pp. 104-107). IEEE.(29 August 2019) 10.1109/ICCMC.2019.8819866. (SCOPUS INDEXED)
- 18. K.Swaraja, Y.Madhaveelatha, V.S.K.Reddy, "A Pristine Digital Video Watermarking in H.264 compressed domain", IEEE International conference on computational intelligence and computing research (ICCIC), Dec 18-20, 2014, pp.1-4, Coimbatore, India, ISBN: 978-1-4799-3974-9. (SCOPUS INDEXED)
- 19. Swaraja K, Latha YM, Reddy VS, Paramkusam AV. Video watermarking based on motion vectors of H. 264. In India Conference (INDICON), 2011 Annual IEEE 2011 Dec 16 (pp. 1-4). IEEE. (SCOPUS INDEXED)

PROFESSIONAL WORK:

Talks/Paper Presentations: Source & Channel Coding Techniques

Signal, Image, Video Analysis & Applications

Video Watermarking and Classification