FACULTY PROFILE

CELINE MARY STUART

Associate Professor

Specialization : Secure Channel Coding

Area of Interest : Channel coding, Image Processing

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Academic Qualification

Qualification	Specialization	Institution	Year of Completion
Ph.D	Secure Channel Coding	NIT Calicut	March 2017
M. Tech	Digital Systems and Communication Engineering	NIT Calicut	November 2006
B. Tech	Electronics and Communication Engineering	Govt. College of Engineering, Kannur, Calicut University	April 1993

Membership in Professional Societies : ISTE

Service Details

Date of Joining Service : 24-09-1999

Date of joining in the institution : 20-03-2019

Publications

International Journals

1. Hima H A, Celine Mary Stuart, "Classification of Melanoma from Dermoscopic Images using Deep Learning", *International Research Journal of Engineering and Technology*, August 2020; vol. 7, no. 8, pp. 5186 – 5191.
2. Celine Mary Stuart, Deepthi P P, "Nonlinear Cryptosystem Based on QCLDPC Codes for Enhanced Security and Reliability with Low Hardware Complexity and Reduced Key Size", Wireless Personal Communications – Springer; October 2017; vol. 96, no. 3, pp. 4177 – 4197.
3. Celine Mary Stuart, Deepthi P.P., "FPGA Implementation of Highly Secure, Hardware Efficient QC-LDPC Code based Nonlinear Cryptosystem for Wireless Sensor Networks", *International Journal of Communication Systems* – Wiley; 30 (10) 2017. DOI: 10.1002/dac.3233.
4. Celine Mary Stuart, Spandana K., Dhanaraj K.J., Deepthi P.P., "Design and Implementation of Hardware-Efficient Modified Rao-Nam Scheme with High Security for Wireless Sensor Networks", *Journal of Information Security and Applications* – Elsevier; vol. 29, pp. 65 – 79, August 2016. DOI: 10.1016 /j. jisa .2016. 03.004.
5. Celine Mary Stuart, Deepthi P.P., "A Novel Low Complexity Scheme for Improving Security of NLFG based Symmetric Key Cryptosystem using Secure Concatenated RS-QC-LDPC Code", *Security and Communication Networks* – Wiley; February 2015; vol. 8, no. 16, pp. 2888 – 2900, DOI: 10. 1002 /sec.1215
6. Celine Mary Stuart, Nandan S., Deepthi P.P., "Low Complex Crypto based Channel Coding with Turbo Code", *International Journal of Computer Applications*, January 2013; vol. 61, no. 16, pp. 39 – 44.

International Conferences

1. Celine Mary Stuart, Deepthi P.P., "Hardware Efficient Scheme for Generating Error Vector to Enhance the Performance of Secure Channel Code", *International Conference on Signal Processing, Informatics, Communication and Energy Systems* (IEEE SPICES – 2015) Feb 19 – 21, Kerala, India, pp. 1 – 5.

2. Celine Mary Stuart, Deepthi P.P., "Low Complex System for Physical Layer Security Using NLFG and QC-LDPC code", *Second International Symposium on Security in*

Computing and Communications (SSCC – 2014), Springer, CCIS Series, September 24 – 27, 2014, New Delhi, India, pp. 378 – 389.

3. Nandan S., Deepthi P.P., Celine Mary Stuart, "Low Complex Crypto Based Channel Coding", *IEEE International Conference on Communication Systems and Network Technologies* (CSNT 2012), May 11 – 13, 2012, Rajkot, India, pp. 863 – 868.

4. Ashok L, Deepthi P.P., Celine Mary Stuart, "Embedding Secrecy in Channel Coding with Low Density Parity Check Codes" pp. 236 – 241, *Proceedings of IASTED International Conference on Signal and Image Processing and Applications* (SIPA 2011), June 22 – 24, 2011, Crete, Greece, pp. 236 – 241.