

List of Publications

1. C. Lakshmi, K. Thenmozhi, John Bosco Balaguru Rayappan, Sundararaman Rajagopalan, Rengarajan Amirtharajan & Nithya Chidambaram. Neural-assisted image-dependent encryption scheme for medical image cloud storage. *Neural Comput & Applic* (2020). <https://doi.org/10.1007/s00521-020-05447-9>
2. Lakshmi, C., Thenmozhi, K., Rayappan, J.B.B. **Amirtharajan, Rengarajan**: Genetic and chaotic signatures in offspring – an encrypted generation of image family. *Multimed Tools Appl* (2020). <https://doi.org/10.1007/s11042-020-09978-0>
3. Anushiadevi, R; Pravinkumar, Padmapriya; Rayappan, John Bosco Balaguru; **Amirtharajan, Rengarajan**; 2020. Reversible data hiding method based on pixel expansion and homomorphic encryption. *Journal of Intelligent & Fuzzy Systems*. 39 (3) 2977-2990. DOI: 10.3233/JIFS-191478
4. Padmapriya, V.M., Thenmozhi, K., Avila, J., **Amirtharajan, Rengarajan**., Padmapriya Praveenkumar. Real Time Authenticated Spectrum Access and Encrypted Image Transmission via Cloud Enabled Fusion centre. *Wireless Pers Commun* (2020). <https://doi.org/10.1007/s11277-020-07674-8>
5. Aashiq Banu, S., **Amirtharajan, R**. Tri-level scrambling and enhanced diffusion for DICOM image cipher- DNA and chaotic fused approach. *Multimed Tools Appl* (2020). <https://doi.org/10.1007/s11042-020-09501-5>
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7. Rethinam, S., Rajagopalan, S., Rayappan, J.B.B., **Amirtharajan, Rengarajan**. Hybrid Random Number Generation Architecture for Mobile Registration Controller: A Reconfigurable Hardware Realization. *Wireless Pers Commun* **115**, 239–266 (2020). <https://doi.org/10.1007/s11277-020-07569-8>
8. Chidambaram, Nithya; Raj, Pethuru; Karruppuswamy, Thenmozhi; **Amirtharajan, Rengarajan**: 'An Advanced Framework for highly secure and cloud-based storage of colour Images', *IET Image Processing*, 2020, DOI: 10.1049/iet-ipr.2018.5654
9. R, Sivaraman; Sundararaman, Rajagopalan; Balaguru Rayappan, John Bosco; **Amirtharajan, Rengarajan**: 'Ring Oscillator as Confusion – Diffusion Agent: A Complete TRNG Drove Image Security', *IET Image Processing*, 2020, DOI: 10.1049/iet-ipr.2019.0168.
10. Aashiq Banu S., **Amirtharajan, R**. (2020) A robust medical image encryption in dual domain: chaos-DNA-IWT combined approach. *Med Biol Eng Comput* **58**, 1445–1458. <https://doi.org/10.1007/s11517-020-02178-w>
11. Sundararaman, Rajagopalan; P, Siva; N, Mukund; R, Sivaraman; VK, Chandrasekar; R, Balasubramanian; Vijaya Annamalai, Moorthi Paramasivam; **Amirtharajan, Rengarajan**: 2020. Chua's Diode and Strange Attractor: A Three Layer Hardware – Software Co-design for Medical Image Confidentiality. *IET Image Processing* 14 (7), 1354-1365. DOI: 10.1049/iet-ipr.2019.0562
12. Anushiadevi, R; Pravinkumar, Padmapriya; Rayappan, John Bosco Balaguru; **Amirtharajan, Rengarajan**; 2020. A high payload separable reversible data hiding in cipher image with good decipher image quality *Journal of Intelligent & Fuzzy Systems*, vol. 38, no. 5, pp. 6403-6414. DOI: 10.3233/JIFS-179721

13. V. M. Padmapriya, K. Thenmozhi, Padmapriya Praveenkumar & **Rengarajan Amirtharajan**. 2020. ECC joins first time with SC-FDMA for Mission “security” Multimed Tools Appl **79**, 17945–17967 (2020). <https://doi.org/10.1007/s11042-020-08610-5>
14. Sivaraman, R., Rajagopalan, S., Sridevi, A., Rayappan, J.B.B., Annamalai, M.P.V., **Rengarajan, A.** Metastability-Induced TRNG Architecture on FPGA. Iran J Sci Technol Trans Electr Eng 44, 47–57 (2020). <https://doi.org/10.1007/s40998-019-00234-2>
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16. Lakshmi, C., Ravi, V.M., Thenmozhi, K., Rayappan, J.B.B., **Amirtharajan, R.** Con(dif)fused voice to convey secret: a dual-domain approach. Multimedia Systems 26, 301–311 (2020). <https://doi.org/10.1007/s00530-019-00644-6>.
17. Devi, R.S., Aravind, A.R.N., Vishal, J.C., Amritha, D., Thenmozhi, K., Rayappan, J.B.B., **Rengarajan, A.**, Padmapriya, P. Image encryption through RNA approach assisted with neural key sequences Multimedia Tools and Applications volume 79, pages 12093–12124 (2020) DOI: 10.1007/s11042-019-08562-5
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