



Dr. Deepa Pavithran
Instructor
Ph.D. Computer Science

Education

PhD- Computer Science, The British University in Dubai, UAE

M.Tech- Cyber Security, Amrita school of Engineering, India

B.Tech- Computer Science and Engineering, College of Engineering- Thalassery, India

Short Bio

Dr. Deepa has more than 10 years of experience in the field of Information Security and computer science. She holds various industrial certifications including CISSP and OSCP. She received the Best Paper Award for “2019 Information Technology Trends” International Conference. Her areas of interest include Cryptography and Blockchain. She has publications in Q1 and Q2 journals as the first author.

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Teaching Areas/Interests

- Cryptography
- Ethical Hacking
- Discrete Mathematics
- Virtualization Technology and Security
- Malware Analysis

Research Interests

- Blockchain
- Internet Of Things
- Cryptography
- Cloud Security

Professional Activities, Memberships, and Industrial Certifications

- CISSP – Certified Information System Security Professional
- OSCP-Penetration Testing with Kali Linux
- CEH - Certified Ethical Hacker
- MCSA - Microsoft Certified Systems Administrator (Security)

Recent Publications

D. Pavithran, J. N. Al-Karaki, K. Shaalan, "Edge-Based Blockchain Architecture for Internet of things using Heirarchical Identity based Encryption", Information Processing and Management, Elsevier, 2021, 58(3), p.102528,

D. Pavithran, K. Shaalan, J. N. Al-Karaki, and A. Gawanmeh, "Towards building a blockchain framework for IoT," Cluster Computing, Springer, 2020, doi: 10.1007/s10586-020-03059-5.

D. Pavithran and K. Shaalan, "Towards Creating Public Key Authentication for IoT Blockchain," in 2019 Sixth HCT Information Technology Trends (ITT), 2020, pp. 110–114, doi: 10.1109/itt48889.2019.9075105.

D. Pavithran and K. Shaalan, "An Optimal Consensus Node Selection Process for IoT Blockchain," in 2019 Sixth HCT Information Technology Trends (ITT), 2020, pp. 115–119, doi: 10.1109/itt48889.2019.9075069.

D. Pavithran, J. N. Al-Karaki, R. Thomas, C. Shibu, and A. Gawanmeh, "Data-Driven Analysis of Price Change, User Behavior and Wealth Accumulation in Bitcoin Transactions," in 2019 Advances in Science and Engineering Technology International Conferences, ASET 2019, 2019, pp. 1–6, doi: 10.1109/ICASET.2019.8714359.

D. Pavithran and R. Thomas, "A Survey on Analyzing Bitcoin Transactions," 2018 Fifth HCT Inf. Technol. Trends, pp. 227–231, Nov. 2018, doi: 10.1109/CTIT.2018.8649517.

N. B. Al Barghuthi, D. Pavithran, and H. E. Said, "Highlighting the Future of Autonomous Vehicle Technology in 2020–2050," 2018 Fifth HCT Inf. Technol. Trends, pp. 251–256, Nov. 2018, doi: 10.1109/CTIT.2018.8649510.

R. Thomas and D. Pavithran, "A Survey of Intrusion Detection Models based on NSL-KDD Data Set," 2018 Fifth HCT Inf. Technol. Trends, pp. 286–291, Nov. 2018, doi: 10.1109/CTIT.2018.8649498.

full publication list: <https://scholar.google.com/citations?user=MRQTRRYAAAAJ&hl=en&oi=ao>