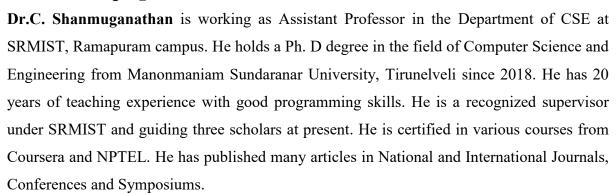**Dr. C. Shanmuganathan, M.E., Ph.D.,**

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Dr.C. Shanmuganathan is working as Assistant Professor in the Department of CSE at SRMIST, Ramapuram campus. He holds a Ph. D degree in the field of Computer Science and Engineering from Manonmaniam Sundaranar University, Tirunelveli since 2018. He has 20 years of teaching experience with good programming skills. He is a recognized supervisor under SRMIST and guiding three scholars at present. He is certified in various courses from Coursera and NPTEL. He has published many articles in National and International Journals, Conferences and Symposiums.

Area of Research:

Network Security, Mobile Computing, Machine Learning

Selected Publications:

1. **Shanmuganathan C**, Dr.P.Raviraj, Performance Analysis of Secure Group Key Mechanism in Mobile Ad hoc Networks, International Journal of Engineering & Technology, ISSN: 2227-524X, Vol.7 (4.10) (2018), pp:344-348.

2. **Shanmuganathan C**, Dr.K.Boopalan, Efficient Detection of Location Based Routing Attack by Routing Attack Mitigation in Mobile Agent Systems, Annals of Romanion Society of Annals of the Romanian Society for Cell Biology. (May 2021), ISSN:1583-6258, Vol. 25, Issue 5, 2021, 673–681.

3. M. Shobana, **C. Shanmuganathan**, Nagendra Panini Challa, S. Ramya, An optimized hybrid deep neural network architecture for intrusion detection in real-time IoT networks, Transactions on Emerging Telecommunications Technologies, Volume 33, Issue12 December 2022.

4. **C. Shanmuganathan**, K. Boopalan, G. Elangovan, P.J. Sathish Kumar, Enabling security in MANETs using an efficient cluster based group key management with elliptical curve cryptography in consort with sail fish optimization algorithm, Transactions on Emerging Telecommunications Technologies, DOI: 10.1002/ett.4717, December 2022.

5. Sivapatham, D., Arasakumaran, U., Annappan, B., **Shanmuganathan C**, Analysis of Genetic Face Images with Respect to Reflexology for Prediction of Diseases, Traitement du Signal, Volume 40, Issue 1, Pages 21-30, February 2023.

6. N V S K Vijayalakshmi K, J. Sasikala & **C.Shanmuganathan**, Copy-paste forgery detection using deep learning with error level analysis, Multimedia Tools and Applications, DOI: 10.1007/s11042-023-15594-5

7. Nagendra Panini Challa, **C. Shanmuganathan**, M. Shobana, Ch. Venkata Sasi Deepthi, N. Bharathiraja, Deep learning based on multimedia encoding to enhance video quality,

International Journal of Networks and Distributed Systems (Inderscience Publishers), Vol. 29, No. 5, 2023.

8. N Bharathiraja, M Shobana, M Vijay Anand, R Lathamanju, **Shanmuganathan C** and V Arulkumar, A Secure and Effective Diffused Framework for Intelligent Routing in Transportation Systems, International Journal of Computer Application and Technology (Inderscience Publishers)

Patents:

1. Application No.: 20204105129 - **Published**
   Patent Filed on 28-11-2020
   Title of Invention: Smart Jacket for Premature Babies using Machine Learning Algorithm.
   Field of Invention: Communication

2. Application No.: 357323-001 - **Patent Granted**
   Patent Filed on 25/01/2022
   Title of Invention: AI based Intelligent Skin Detector

3. Design No. 366303-001 – **Patent Granted**
   Date: 17/06/2022
   Title: AI based Traffic Light for Guiding Vehicle Traffic.

4. Design No. 6302139 – **Patent Granted**
   Date: 15/08/2023
   Title: Sensor based automatic Robotic waste bin.

Professional Bodies:

1. Life Member in ISTE (Membership No. LM 53953)
2. Life Member in SAISE (Membership No.20190112001)
3. Life Member in IAENG (Membership No.229228).

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