



E BABURAJ

Professor

Department of Computer Science & Engineering

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Date of Joining MEC: 16 November 2016

Professional Experience: Total 25 Years

Educational Profile

- **Ph.D** (2009)
 - Computer Science and Engineering
 - Anna University
- **M.E.** (2002)
 - Computer Science & Engineering
 - Madurai Kamaraj University
 - First Class with Distnction
- **B.E.** (1992)
 - Computer Engineering
 - Madurai Kamaraj University
 - First Class

Courses handled

Course	UG/PG	Times taken
Network Security	PG	6
Computer Networks	PG	6
Computer Programming	UG	5

Object Oriented Techniques	UG	5
Data Structures & Algorithm	UG	4
Software Engineering & Project Management	UG	1
Mobile Computing	UG	2
Cryptography and Network Security	UG	3

Research Interest

- Mobile Networks
- Network Security

Projects / Ph.D Thesis Guided

R.V. Labisha, "Energy Efficient Approach to Maximize WSN Lifetime Using Data Storage and Retrieval Algorithms", Anna University, Chennai (Thesis Submitted)

K.Kalaikumar, "Cross-layer design approaches for route optimization in wireless sensor networks", Anna University, Chennai (Thesis Submitted)

R.A.Isabel, "Investigations on Quality of Service Aware routing technique for efficient Wireless body area networks", Anna University, Chennai (Thesis Submitted)

A. Selva Reegan, "An energy efficient & multi-variate triple key based approaches for wireless sensor networks", Anna University, Chennai (Thesis Submitted)

J.Arul Valan-, "Decision Support System of Indian Health Care using Big Data Analytics – A special reference for Blood Bank", M.S. University, Thirunelveli. Jan'19

Antony Visuvasa Rani, "An Intelligent Security Architecture for Cloud based Health care Applications in Wireless Sensor Networks", Anna University, Chennai, Mar'18

A.S.Radhamony, "Investigations on Optimized Resource Scheduling Algorithms for Multicore Processors in Cloud Computing Applications", M.S. University, Thirunelveli, Sep'15

Significant Publications

A.V Rani and E. Baburaj (2019) "Secure and intelligent architecture for cloud based healthcare applications in wireless body sensor networks", Biomedical Engineering and Technology, Inderscience Publishers Vol 29, No 2, PP 186-199

P.M.Sivaraja and E.Baburaj (2019)"Protected Cloud Storage in IoT Using Two Level Learning in Assist with Dual of beat Shielding Design", International Journal of Wireless Personal Communications, Springer, (Online)

R.A.Isabel and E.Baburaj (2018) "An Optimal Trust Aware Cluster Based Routing Protocol Using Fuzzy Based Trust Inference Model and Particle Swarm Optimization in WBANs", International Journal of Wireless Personal Communications, Springer Vol 101, no 1, PP 201-222

K.Kalaikumar and E.Baburaj (2018) "Fuzzy enabled congestion control by cross layer protocol utilizing ABC in WSN: Combining MAC, efficient data delivery" *Wireless Networks*, Springer. (Published online)

K.Kalaikumar and E.Baburaj (2018) "FABC-MACRD Fuzzy and Artificial Bee Colony based Implementation of MAC, Clustering, Routing Approach in WSN" *Wireless Personal Communications*, Springer Vol 103, No 2, PP 1633-1655

J.A.Valan and E.Baburaj (2018) "Inventory Control in Health Care Supply Chain Management using Apriori and Gravitational Search algorithm" *Logistics Systems and Management*, Inderscience Publishers.

G.L.Smitha and E.Baburaj (2018) "Sobel edge detection technique implementation for image steganography analysis", *Bio Medical Research*, Vol 27, No 2, PP 592-598

R.V.Labisha and E.Baburaj (2017) "Efficient Approach to maximize the WSN lifetime using WOSNP, EEWR, ERNR and CSDP methods" *International Journal of Computers and Electrical Engineering*, Elsevier Publications Vol 59, PP 203-217

A.Selvareegan and E.Baburaj (2017) "Polynomial and multivariate mapping-based triple-key approach for secure key distribution" *International Journal of Computers and Electrical Engineering*, Elsevier Publications Vol 59, PP 274-290

A.Fidal Castro and E.Baburaj (2017) "Sequential Pattern Mining for Intrusion Detection System with Feature Selection on Big Data", *Information Systems*, Vol 11, No 10, PP 5023-5038

K.Ramanan and Baburaj.E (2017) "An Energy Efficient Fast and Secure Data Aggregation Scheme for Wireless Sensor Networks" *Theoretical Nano science* Volume 14, Number 1, pp. 780-788(9)

R.A.Isabel and E.Baburaj(2017) "Multi-Agent Based Maxmin Markov Probability For Qos Aware Routing In Wban," *Biomedical Research*, Vol 28, No 8, PP 3721-3726

R.A.Isabel and E.Baburaj(2017) "Binomial Probability Distribution With Qos Support For Health Monitoring In Wireless Body Area Networks" *Biomedical Research*, Vol 28, No 8, PP 3721-3726

S. Prince Mary and E.Baburaj (2016), "A novel framework for an efficient online recommendation system using constraint based algorithm" *Biomedical Research*, Vol 27 No 2, PP S92-98

P.M.Sivaraja and E.Baburaj (2016),"Optimal parameter selection for QR code based Image Steganography via variable step size Fourier Transform", *Journal of Computational and Theoretical Nano science* Vol 13, No 11, pp. 8742-8759

A.V. Rani and E.Baburaj (2016)," An efficient secure authentication on cloud based e-healthcare system in WBAN." *Bio Medical Research*, Vol 27, No 1, PP 1-7

Sivaraja.P.M. and Baburaj.E (2014) "Genetic Algorithm based Data hiding scheme for Digital Images with LSBMR.", *International Journal of Computer Security*, InderSciencePublishers, Vol 6, No 1, PP 51-62

Radhamani. A.S. and Baburaj E. (2014) "Performance Evaluation of Parallel Genetic and Particle Swarm Optimization Algorithms" *International Journal of Computational Intelligence and Applications*, World Scientific Publishing Co., Vol 13, No 4. PP 1030-1041

Baburaj E and Vasudevan V (2009), "Exploring Optimized Route Selection Strategy in Tree and Mesh based Multicast Routing in Computer Application in Technology IJCAT), Special Issue on Computer Applications in Knowledge based System, InderScience Publishers, Vol 1, No 1, PP 183

Invited Talk

- **Delivered a keynote address on “Data hiding with Soft Computing Techniques” in the Sixth International Conference on C ICCTS 2017 held at Nanyang Technological University, Singapore on 9, December 2017.**