
DR .G. RAVI
ASSOCIATE PROFESSOR & HEAD



DEPARTMENT OF COMPUTER SCIENCE, JAMAL MOHAMED COLLEGE (AUTONOMOUS),
TRICHIRAPPALLI - 620 020, TAMILNADU, INDIA.

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PROFESSIONAL SUMMARY

- ❖ Dedicated, resourceful and goal-driven professional educator with a solid commitment to the social and academic growth and development of every student.
- ❖ Demonstrated ability to consistently individualize instruction, based on student's needs and interests.
- ❖ Support students and families with regular communication, efficient record keeping and opportunities for meaningful feedback.

SKILLS

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|-------------------|-------------------------------|
| ◆ Self-motivation | ◆ Interpersonal Communication |
| ◆ Observational | ◆ Problem-Solving Techniques |
| ◆ Research | ◆ Time Management |

WORK HISTORY

Undergraduate: 35 YEARS

Postgraduate: 34 YEARS

M. Phil : 35 COMPLETED

Ph. D: 03 COMPLETED

05 PURSING

EDUCATION

M.C.A., M. Phil., PGDBA., Ph.D.

ACADEMIC ACCOMPLISHMENTS

WORKSHOPS

- ◆ Participated in a three day Workshop Sponsored by UGC on **Curriculum Development and Evaluation** – Academic Staff College, Bharathidasan University, Trichy, conducted at Jamal Mohamed College, Triruchirappalli on 2nd to 4th March 2006.
- ◆ Participated in One Day Workshop on Software Development Trends in Technologies and Methodologies Conducted by the CSI and BUTP, Triruchirappalli on 19th March 2007.
- ◆ Participated in State Level Workshop on Research Prospects in Data Mining, Department of Computer Science, Jamal Mohamed College, Triruchirappalli on 22nd March 2007.
- ◆ Participated in State Level Workshop on “Mobile and Pervasive Computing”, conducted at NIT, Triruchirappalli on 4th August 2007.
- ◆ Participated in International Workshop on “Next Generation Wireless Networks”, at IIIT, Allahabad on 12th to 16th July 2008.
- ◆ Participated in Two-day Workshop on “Research Methodology in Computer Science”, PG & Research Department of Computer Science, Jamal Mohamed College (Autonomous), Tiruchirappalli on 1st and 2nd March 2014.
- ◆ Participated in One Day National Workshop on “Research Issues In Big-Data Analysis” at BUTP, Triruchirappalli on 27th March 2014.

PUBLICATIONS

- ◆ M M Surputheen, **G Ravi**, R Srinivasan (2012), SNMP Based Network Optimization Technique Using Genetic Algorithms, International Journal of Computer Science No.s (IJCSI) Vol. 9, No. 2, pp. 287.

- ◆ **G Ravi**, M M Surputheen, R Srinivasan (2012), Fast Energy-Efficient Secure Dynamic Address Routing For Scalable WSNs, International Journal of Computer Science No.s (IJCSI) Vol.9, No. 2, pp. 383.
- ◆ **G Ravi**, MM Surputheen, R Srinivasan (2012), Secure packet transmission in wireless sensor networks using dynamic routing techniques, International Journal of Computer Applications Vol.49, No. 22, pp. 8-11.
- ◆ **G Ravi**, (2012), Securing Wireless Sensor Networks using Concealed Data Aggregation, Secret Sharing and Randomized Dispersive Routes - International Journal of Computational Intelligence and Information Security, Vol. 3, No. 6, ISSN: 1837-7823.
- ◆ **G Ravi**, (2012), Optimizing Routes using Genetic Algorithms based on Throughput or Delay Sensitivity of Applications using SNMP for Automatic Discovery of Network Topology, International Journal of Computer Applications (0975 – 888), Volume 47– No. 12.
- ◆ **G Ravi**, (2012), Route Optimization using SNMP for Automatic Discovery of Network Topology - International Journal of Computational Intelligence and Information Security, Vol. 3, No. 6, ISSN: 1837-7823.
- ◆ **G Ravi**, (2014), Conquer Vampire Attacks in Wireless Sensor Network - International Journal for Scientific Research & Development (IJSRD), Vol. 2, No. 6, pp. 526-529.
- ◆ **G Ravi**, (2014), Concealed Data Aggregation for Multiple Application using Distributed Data Scheduling Algorithm - International Journal for Scientific Research & Development (IJSRD), Vol. 2, No. 6, pp. 349 -352.
- ◆ **G Ravi**, (2014), An Efficient and Robust Access Method for Spatial Queries in Mobile Environments - International Journal for Scientific Research & Development (IJSRD), Vol. 2, No. 6.
- ◆ N Pramila, **G Ravi**, (2016), Intrusion Detection in Fast and Streaming Network Data using In-Memory Stream Processing in Spark, International Journal of Advanced Research in Computer and Communication, ISO 3297:2007 Certified, Vol. 5, No. 9, DOI 10.17148/IJARCCE.2016.5941.
- ◆ R Suganji, **Dr. G Ravi** (2016), Enhanced Churn Prediction on Huge Telecom Data using Particle Swarm Optimization, International Journal of Advanced Research in Science, Engineering and Technology, Vol. 3, No. 9, ISSN: 2350-0328.
- ◆ M. Nazrin Banu, **Dr. G Ravi**, (2017), Improving the Life Time of the Wireless Sensor Network using Clustering Technique, Bellman Ford Asynchronous and SW Protocol,

International Journal of Electrical Electronics & Computer Science Engineering, Vol.4, No. 4, pp. 78-82.

- ◆ **Dr. G Ravi**, E. Meena, (2017), OTP Intense Cryptography and Palm Vein Vuguish on Online Transaction, International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), Vol. 2, No. 4, pp. 751-756.
- ◆ **Dr. G Ravi**, E. Meena, (2017), Secure Protocol for Jamming Attacks and Time-Delayed Broadcast in Wireless Communications, International Journal of Scientific Research in Computer Science, Engineering and Information Technology (IJSRCSEIT), Vol. 2, No. 4, pp. 863-868.
- ◆ S Bhaseerunnisha, **Dr. G Ravi**, (2017), Aggrandized Security Through Cryptography, QR Code And Steganography, International Journal of Electrical Electronics & Computer Science Engineering Volume 4, No. 4, E-ISSN: 2348-2273 | P-ISSN: 2454-1222.
- ◆ V Sobanadevi, **Dr. G Ravi**, (2018), Credit Card Fraud Detection using Feature Augmentation based Boosted Ensemble (FABE), International Journal of Computer Sciences and Engineering, Vol. 6, No.12, pp.841-846.
- ◆ V Sobanadevi, **Dr. G Ravi**, (2018), Modified Data Analysis of Big Data Using Map Reduce In Hadoop Process, International Journal of Engineering and Techniques – Vol. 4, No.3, ISSN: 2395-1303.
- ◆ K. Ruckshana and **G. Ravi**, (2019), Network Traffic Analysis in Cloud: A Survey, Asian Journal of Computer Science and Technology (AJCST), Vol. 8, No. 2, pp. 61-65.
- ◆ V Sobanadevi, **Dr. G Ravi**, (2020), Multi-Level Credit Card Fraud Detection, International Journal of Recent Technology and Engineering (IJRTE), Vol. 8, No. 4 , pp.7288-7292, ISSN: 2277-3878.
- ◆ O.S. Abdul Qadir, **Dr. G. Ravi**, (2020), Dual Objective Task Scheduling Algorithm in Cloud Environment International Journal of Advanced Trends in Computer Science and Engineering, Vol. 9, No.3, pp. 2527 - 2534 ISSN 2278-3091.
- ◆ R Inbaraj, **Dr. G Ravi**, (2020), A Survey On Recent Trends In Content-Based Image Retrieval System, Journal of Critical Reviews, Vol. 7, No. 11, pp. 961-965, ISSN- 2394-5125.
- ◆ R Inbaraj, **Dr. G Ravi**, (2020), Clustering Based Medical Image Classification Using Unsupervised Vector Zone Feature Extraction (UVZF) and Intensive Pragmatic Blossoms (IPB) Classification Methods, Journal of Advanced Research in Dynamical & Control Systems, Vol. 12, No. 5, ISSN 1943-023X.

- ◆ R Inbaraj, **Dr. G Ravi**, (2020), Content Based Medical Image Retrieval Using Multilevel Hybrid Clustering Segmentation with Feed Forward Neural Network, Journal of Computational and Theoretical Nanoscience, Vol. 17, No. 12, pp. 5550-5562(13).
- ◆ V Sobanadevi, **Dr. G Ravi**, (2020), Real-Time Deep Learning based Credit Card Fraud Detection, International Journal Of Scientific & Technology Research, Vol. 9, No. 3, pp. 6583-6587.
- ◆ O.S. Abdul Qadir, **Dr. G. Ravi**, (2020), A Survey on Task Scheduling Algorithms in Cloud Computing, International Journal of Innovations in Engineering and Technology (IJIET), Vol.15, No. 4, pp. 29-35.
- ◆ V Sobanadevi, **Dr. G Ravi**, (2021), Handling Data Imbalance Using a Heterogeneous Bagging-Based Stacked Ensemble (HBSE) for Credit Card Fraud Detection, Intelligence in Big Data Technologies –Beyond the Hype, Conference paper, AISC, vol. 1167, pp, 517-525, ISSN-2194-5357.
- ◆ O.S. Abdul Qadir, **Dr. G. Ravi**, (2021), Performance Analysis of the Normalized Distribution and Ranking with Optimization Based Task Scheduling Techniques, Annals of the Romanian Society for Cell Biology, Vol. 25, No.5, pp. 4058–4070, ISSN:1583-6258.
- ◆ R Inbaraj, **Dr. G Ravi**, (2021), Multi Model Clustering Segmentation and Intensive Pragmatic Blossoms (Ipb) Classification Method based Medical Image Retrieval System, Annals of the Romanian Society for Cell Biology, Vol. 25, No.3, pp. 7841-7852, ISSN:1583-6258.
- ◆ R Inbaraj, **Dr. G Ravi**, (2021), Content-Based Medical Image Retrieval System Based On Multi Model Clustering Segmentation and Multi-Layer Perception Classification Methods, Turkish Online Journal of Qualitative Inquiry (TOJQI), Vol.12, No.7, ISSN 1309-6591.

CONFERENCES

- ◆ Organized a National Conference **NCAC** -2015 (National Conference on Advanced Computing -2015) on 5th March 2015 at Department of Computer Science, Jamal Mohamed College (Autonomous). Trichirappalli-20, under **Autonomous Grant from UGC**.

PAPER PRESENTED

- ◆ Presented a paper entitled on “ ***Efficient Algorithm for the key Establishment in Sensor networks*** ” at National Conference on Ubiquitous and Pervasive Computing at NMAM Institute of Technology, NITTE, Karnataka On 24th and 25th January 2008
- ◆ Presented a paper entitled on “ ***Range Dependent Localization Algorithm for Sensor networks*** ” at National Conference on Ubiquitous and Pervasive Computing at NMAM Institute of Technology, NITTE, Karnataka on 24th and 25th January 2008
- ◆ Presented a paper entitled on “ ***Routing and Security Issues in Wireless Sensor networks*** ” at National Level Conference on Recent Trends in IT at Rovers College, Perambalur on 20th February 2008.
- ◆ Presented a paper entitled on “ ***Secure routing in Wireless Sensor Networks*** “ at National Conference on Wireless Network Security – Issues & Challenges held at CSE department, RVCE, Bangalore-59 on 19th and 20th March 2008.
- ◆ Presented a paper entitled as “ ***Routing Protocol for Wireless Sensor Networks – A Novel Approach*** ” in UGC sponsored National Conference on Advance Computing (NCAC-2009) at Department of Computer Science, Jamal Mohamed College(Autonomous), Tiruchirapalli held on 27th & 28th March 2009.
- ◆ Presented a paper entitled on “ ***A Comprehensive Business Model using Cloud CRM for Global Business Delivery*** “ in State Level Seminar on Computing and Communication Technologies (SCCT-2015), at Department of Information Technology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 20 on 25th February 2015.
- ◆ Presented a paper entitled on “ ***Survey Security Issues in Mobile Ad hoc Network*** “ in State Level Seminar on Computing and Communication Technologies (SCCT-2015), at Department of Information Technology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 20 on 25th February 2015.
- ◆ Presented a paper entitled on “ ***Secure Data Transferring using Cryptography and Steganography in Network Security*** ” in State Level Seminar on Computing and Communication Technologies (SCCT-2015), at Department of Information Technology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 20 on 25th February 2015.

- ◆ Presented a paper entitled on “ ***Packet Data Transmission Using Connection Oriented Communications Network*** ” in State Level Seminar on Computing and Communication Technologies (SCCT-2015), at Department of Information Technology, Jamal Mohamed College (Autonomous), Tiruchirappalli – 20 on 25th February 2015.
- ◆ Presented a paper entitled on “ ***Analysis and Design using Routing Protocols*** ” in National Conference on Advanced Computing-NCAC-2015 organized by PG & Research Department of Computer Science, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020 on 5th March 2015.
- ◆ Presented a paper entitled on “ ***Secure Data Transferring using TEA*** ” in National Conference on Advanced Computing-NCAC-2015 organized by PG & Research Department of Computer Science, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020 on 5th March 2015.
- ◆ Presented a paper entitled on “ ***Two key data transfer using Cryptography and Steganography*** ” in National Conference on Advanced Computing-NCAC-2015 organized by PG & Research Department of Computer Science, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020 on 5th March 2015.
- ◆ Presented a paper entitled on “ ***Shortest Path Selection using Packet Network System***” in National Conference on Advanced Computing-NCAC-2015 organized by PG & Research Department of Computer Science, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020 on 5th March 2015.
- ◆ Presented a paper entitled on “ ***A Cost Effective Solution to meet on Demand IT needs using Cloud Services*** ” in National Conference on Advanced Computing-NCAC-2015 organized by PG & Research Department of Computer Science, Jamal Mohamed College (Autonomous), Tiruchirappalli - 620 020 on 5th March 2015.

RESOURCE PERSON

- ◆ Acted as an resource person and delivered a special lecture on “ ***Artificial Intelligence***” in the UGC Refresher Course in IT at Academic Staff College, Bharathidasan University, Tiruchirappalli, on 19th December 2003.

- ◆ Acted as an resource person and delivered a special lecture on “ ***Problem Solving using Artificial Intelligence Techniques***” at Periyar E.V.R. College, Tiruchirappalli on 12th October 2006.
- ◆ Acted as an resource person and delivered a special lecture on “ ***Artificial Intelligence and its Application***” for the UGC Sponsored Refresher Course in Computer Science at Academic Staff College, Bharathidasan University, Tiruchirappalli on 10th March 2015.
- ◆ Acted as a Programme Co-ordinator in “***Cyber Training Programme for Judicial Officers***” of Trichy, Perambalur, Pudukottai and Karur Districts, organized by TamilNadu Judicial Academy in association with the Bharathidasan University and Jamal Mohamed College (Autonomous), from 22nd May 2006 to 26th May 2006.
- ◆ Acted as an resource person for “ ***Imparting Basic Computer Training*** “ for 292 newly recruited policeconstables from 7th March 2011 to 18th March 2011.

**MEMBERSHIP IN
ACADEMIC BODIES**

- ◆ **Member In Board of Studies** in Computer Science of ADM College for Women, Nagapattinam from 2006 onwards.
- ◆ Acting as a **University representative** to the **Board of Studies** in Computer Science of Government Arts College for Women, Pudukkottai. From 2009 onwards.
- ◆ Acting as a **University representative** to the **Board of Studies** in Computer Science of Periyar EVR College, Tiruchirappalli, from – 2008 onwards.
- ◆ Acted as a **Member In Board of Studies** in Computer Science of Tamil University, Thanjavur, from 2013 – 2015.
- ◆ Acting as a **Member In Board of Studies** in Information Technology of St Joseph’s College, Tirucirappalli from 2014 onwards.
- ◆ **Member In Board of Studies** in Computer Science of ADM College for Women, Nagapattinam, from 2015 onwards.

**MEMBERSHIP IN
COMMITTEES FOR AUTONOMOUS**

- ◆ Chairman for Board of Studies in Computer Science.
- ◆ Member of the Academic Council.
- ◆ Member of the Library Committee – 2015.
- ◆ Convener of Academic Audit Committee – 2015.

**MEMBERSHIP IN
PROFESSIONAL BODIES**

- ◆ Member of Computer Society of India.

PERSONAL INFORMATION

Date of Birth : 04-02-1963
Nationality : Indian
Languages Known : English, Tamil
Residential Address : 5/1089 Sivarayar Garden First Street,
M. Chavadi,
Thanjavur – 613 001
Tamil Nadu,
India.

I certify that the information given above is true, complete and correct to the best of my Knowledge and belief.

Dr. G. RAVI