Faculty Profile



Dr. R. Kumaravelu D.C.S.E., B.E., M.E., Ph.D
Associate Professor - AIML

HIGHLIGHTS:

- Number of Journal Publications: 10
- H-Index: 3
- Project Funding Received: 1.5 Crore and above
- Patents Published: 0
- Patents Granted: 2

PROFESSIONAL LINKS:

- Scopus ID: **37091044400**
- Scopus Link: **https://www.scopus.com/authid/detail.uri?authorId=37091044400**
- Google Scholar ID: **http://scholar.google.co.in/citations?user=3Z-kt0YAAAAJ&hl=en**
- Anna University Faculty ID: **2683091968**
- AICTE Faculty ID: **1-9523847550**
- Anna University Supervisor ID: **NA**
- LinkedIn: **https://www.linkedin.com/in/kumaravelu-rajabather-91170926/**

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: **12 Years**
- Industrial/Researcg Experience: **8 Years**

AREA OF SPECIALIZATION:

- Embedded System Based Product Development
- PCB Designing
- Firmware Development

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

- ST/TDD/2K10/91 Development/Demonstration of Electronic Jacquard for Handloom Weavers Rs. 17,07,783 (TDT Division of DST)

- DST/TDD/2K12/198 Establishing of Electronics Cardless Jacquard Loom Weaving Centre for the Socio-Economic Development of Marginalized Handloom Weavers DST : Rs.35,66,500 (TDT Division of DST) Rs. 14,51,250 (NABARD – RIF)

- DSIR/PRISM/4/2014 A Novel Jacquard Punched Card Reader for Digitizing the Woven Designs Rs. 10,00,000 (DSIR – PRISM Scheme) Rs.02,42,000 (My Contribution)

- TNSCST/DIT/18/VR/2015 2016 Computer Aided Textile Design Training for the Aruppukottai Handloom Cluster Virudhunagar District Rs. 45,000 (Tamil Nadu State Council for Science and Technology)

- DST/TDT/SHRI-14/2018 Transforming Ethnic/Traditional Weaving Art of Tamil Nadu through Smart Production Technology Rs. 82,70,560 (Department of Science and Technology)

PATENTS PUBLISHED/GRANTED:

- Patent titled as – "A Handloom Weaving Apparatus" – Sponsored by TIFAC-PF – Patent #: 365647

- Patent titled as – "A Novel Jacquard Punched Card Reader for Digitizing The Woven" – Patent #: 436130

COURSES CERTIFIED:

- COBOL Programming – Certified by Computer Society of India – November 1996

- Data Structure Through C Language – Certified by Computer Society of India – April 1996

- Visual Programming – Certified by Microsoft Corporation.

- Hardware Maintenance – Certified by ACCEL

- Malware Research Practice – Certified by K7 Computing

ACHIEVEMENTS AND AWARDS:

- Board of Studies Member to SIET college for Women, Teynampet, Chennai

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- Compendium on Specific S & T Interventions by State S & T Councils

- Paper Clippings published by NABARD, Chennai Regional Office
- Paper Clippings published by Vivekha Charitable Trust
- Appointment as External Examiner – Harare Institute of Technology , Zimbabwe
- NABARD – State-level Handloom Stake holder
- Letter of Appreciation from DST , Scientist G , Dr.G.J.Samathanam
- Email of Appreciation from DSIR, Head & Scientist G – Dr.S.K.Deshpande
- SHRI Program and Exhibition of Key Project Outcomes on 16/12/2024 @MoES, New Delhi – Organized by Department of Science and Technology

SPECIAL SESSIONS DELIVERED:

- Real Time Application in Embedded Systems @ Nandha Engineering College, Erode on 14/05/2013
- File System Management @ Kongu Engineering College, Perundurai, Erode on 15/05/2013
- Intellectual Key for Engineering Appliances using Embedded Systems, KIOT @ Salem, 26/10/2013
- Vigyan Utsav – Atmanirbharata & Industry - 29th July 2022
- Emerging Research Trend in Engineering and Technology, Kings Engineering College @Chennai, 04th January 2024
- Delivered Guest Lecture on Computer Aided Textile Design for the Designing Trainees held on 12-06-2018 at Weavers Service Centre, Kanchipuram, Tamil Nadu

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

- College Day Symposium @AMACE
- TECHWAR @AMACE
- Train the Trainers Workshop'99 – Software Engineering Practices in IT Industry @IIT organized by InfoSys
- Mobile Code & Agent Security
- Agent Based Intelligent Systems @ Vivekananda College of Engineering for Women – 17th July 2009
- Pattern Classification Techniques for Audio and Video Processing – 23rd November to 4th December 2009 @ Annamalai University
- Information Security Standards on 10/08/2010 @ Rajalakshmi Engineering College, Chenna

- Distribution of Shared Key (Secret Key) using USB Dongle based identity Approach for Authenticated Access in Mobile Agent Security @Kongu Engineering College , 27th December to 29th December 2010
- Distribution of RSA Public Key with Security Device based Identity for Multi-Agent Secured Distributed Computing System
- Embedded System and Sensor Technologies @ Kalasalingam University , 04/02/2016 to 06/02/2016
- NABL Accredited Testing and Calibration @ Kalasalingam University, 19th January 2016
- 15 Days Training @ K7 Computing, Chennai, Since 16th November 201
- Implementation of Unique Lifting Plan for the Heald Shaft Estimation Using Trie Data Structure @ Saveetha University, 18th – 19th September 2024
- Logic and its Applications – 3rd October 2018 @ VIT
- All_India_Manufacturing_Tecfhnology_Design_and_Research_Conference_@Anna University December 2018
- Workshop on "Information Data Quality Tools" @VIT , 5/6th October 2017

PROFESSIONAL MEMBERSHIPS:

- Life Membership – Indian Science Congress Association – L24284

TECHNOLOGY DISSEMINATION:

- In associate with Weaver Service Centre – Chennai, Kanchipuram, Salem, Bhagalpur, Indore – Computerized Jacquard Card Punching machineries has been installed and training has been given and people are adapting this technology in handloom weaving
- In association with Weavers Service Centre – Delhi, Chennai, Kanchipuram – Computer Aided Textile Designing Software has been installed and training has been provided and people are adapting this technology in handloom woven design
- In association with Co-Optex, Tamilnadu – Computer Aided Textile Designing software has been installed in Mini-Handloom clusters
- Through the Nagaland State Council – 128 and 256 Hooks Electronic Jacquard Loom has been successfully installed at Kohima, Pfutsero
- The Jacquard Punched Card Reader system has been commercialized for the Handloom weavers of Kanchipuram

FUTURE GOAL – RESEARCH AND DEVELOPMENT:

- Revenue Generation in the working institution
- Disseminate the developed technology for the local people revenue generation
- Expand – Industrial Consultancy in the field of Embedded System

- Enable the student community to be involved in the research projects as well as to share my research experience among the student community