

Faculty Profile

Brief Profile (Few Paragraphs)

Faculty Photo

Personal Information

- **Name:** PADMAJA K V
- **Designation:** Professor
- **Department:** Electronics and Instrumentation Engineering[Department Name, e.g., Mechanical Engineering]
- **Email:** padmajakv@rvce.edu.in
- **Phone:** 080-68188166

Google Scholar / ResearchGate / LinkedIn/ ORCID
[https://scholar.google.co.in/citations?user=ionl_58AAAAJ&hl=en]

Domain of Expertise

Research Focus

- **Primary Area:** Sensors and Instrumentation
- **Allied Areas:**
 - Computer communication networks

Academic Qualifications

- **Ph.D.:** Electrical and Electronics Engineering , [VTU, 2010.
- **M.Tech:** Electronics and Communication Engineering, Pondicherry University, 1991.
- **B.E:** Electronics and Communication Engineering , Gulbarga University, 1988.

Professional Experience

Experience			
S.No	Institute/College/Industry	Job Title	Duration(From-To)
1.	RV College of Engineering	Professor	2010 - 2025 (till today)
2.	RV College of Engineering	Head of the Department, EIE	2007 - 2012
3	RV College of Engineering	Associate Dean	2012 - 2022
4	RV College of Engineering	Assistant professor	1997 - 2007

5	RV College of Engineering	Lecturer	1991-1997
6	RV College of Engineering	Warden, RVCE, Girls hostel	2015-2025 (till today)

Publications & Patents

Journal Publications

1. Padmaja K V, Chetana.G “A novel secure biomedical data aggregation using fully homomorphic encryption in WSN” Indonesian Journal of Electrical Engineering and Computer Science Vol. 24, No. 1, October 2021.
2. Dr. Padmaja K V, Harsha Herle “Relative Merits of Data Mining Algorithms of Chronic Kidney Diseases”, (IJACSA) International Journal of Advanced Computer Science and Applications, Vol. 12, No. 6, July 2021.
3. Herle H., Padmaja K.V. (2021) Machine Learning Based Techniques for Detection of Renal Calculi in Ultrasound Images. **Advances in Computing and Data Sciences**. ICACDS 2021. Communications in Computer and Information Science, 23oct, ,vol 1440. Springer, Cham. https://doi.org/10.1007/978-3-030-81462-5_41, 2021.
4. K.V.Padmaja, G.Chethana "Integer Matrix Keys for Secure Data Aggregation in Clustered Wireless Sensor Networks", International Journal of Electronics and Telecommunications(IJET), Vol. 66, No. 4, 2020.
5. K V Padmaja, Harsha,"Performance Assessment of Ultrasound Kidney Images using De-speckling algorithms" Indian Journal of Computer Science and Engineering (IJCSE), Vol. 11 No. 6 Nov-Dec 2020.
6. Padmaja, K.V, Vidya.M.J, “Enhancing security of electronic patient record using watermarking technique”, Materials Today: Proceedings, Volume 5, Issue 4, Part 3, 2018.
7. Padmaja K.V ,Dr. S. Ravishankar “Analysis of Dual latency & Dynamic Rate Repartitioning Concepts in VDSL2 with Downstream Power Backoff” ICGST DSP Journal, issue1, Vol 8, Dec2008,pp 9-14
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Conference Papers

1. KV Padmaja, N Kavya,” Glaucoma detection using texture features extraction “ International conference , 51st Asilomar Conference on Signals, Systems, and Computers, 2017
2. Padmajakv, Teja Ram Pingali et.all “ Eye-gesture controlled intelligent wheelchair using Electro-Oculography “IEEE International Symposium on Circuits and Systems, 2014.
3. Padmaja K V, Veena Divya ,et.all “ An improvised approach using yolov3 architecture for digital panoramic teeth recognition and classification ”, 46th International conference IEEE EMBC, 2024.
4. Padmaja K V, Vidya M J,et.all “Synergism of Medicine and Robotic Applications for the Future- A Review” 8th IEEE International Conference on Computational Systems & Information Technology for Sustainable solutions , 2024.

5. Padmaja K V, et.all “Anxiogram: Unmasking Anxiety with IOT- Enhanced ECG” 7th IEEE International Conference on Computational Systems and Information Technology for Sustainable Solutions , 2023. Padmaja, K.V. Chethana, G., , “An Iterative Approach for Optimal Number of Balanced Clusters and Placement of Cluster Heads in WSN with Spatial Constraints“,4th IEEE International Conference on Recent Trends on Electronics, Information, Communication and Technology,17 and 18th May, RTEICT ,2019 .
6. Padmaja K V, Pavan T S,” Development of a monitoring system for paralytic patients caused due to stroke”, 10th IEEE co-sponsored International conference on Recent Engineering and Technology organized by 21st June 2020

Books/Book Chapters

1. PadmajaK V, Vidya. M.J et.all “Human-Machine Interaction and IoT Applications for a Smarter World” Chapter 8 , CRC Press, Taylor & Francis, 2022
2. PadmajaK V, Vidya. M.J et.all “ Novel authentication Approach Towards secured Storage of Electronic Patient Record using 3-D Dynamic order template” sustainable and energy efficient computing paradigms, EAI Springer innovations in communications and computing, Springer nature book series, chapter, online on 01.09.2020.

Consultancy Projects

1. As a co-ordinator for Embedded System for IoT team under CISCO- RVCE for IoT, conducted 5 training programs and trained total 106 students. The total amount generated is 6,25,400.00 during 2018-19 .
2. Conducted online Internship programs for Embedded System for IoT team under CISCO- RVCE for IoT during 2020-22 generated Rs82,000/-.

Ongoing & Completed Consultancy Projects.

As Project team member executed consultancy project “ **Live Stock Management S/W with IOT based Automated Weighscale Hardware Integration**”.Profive Infotech sanctioned amount Rs 3 Lakhs during the year 2023. It is extended during 2025 with further sanction of Rs 1 Lakh

Professional Memberships

MISTE, MIETE

Awards & Recognitions

1. RSST Excellency Award in the year 2005.
2. Academic Excellence award for the year 2007-08 by RSST Trust.
3. Academic Excellence award for the year 2008-09 by RSST Trust.

Student Supervision

- Ph.D. Candidates: 06 graduated
- M.Tech : [15]
- Undergraduate Research Mentees: [50]

Professional Roles

- Committee Member:
 - Adviser to UPSC Board New Delhi from 2011 till date .
 - Member of Panel of Expert for Recruitment and Assessment Centre , DRDO.
 - BoS Member for Department of EIE, DY Patil college of Engineering, Pune from 2024.
 - BOS member for Presidency University from Nov-2015 to 2018.
 - BOE member for E&IE BMSCE from 2012 to 2014.
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● Teaching

Core Courses

- EI363IA , Data communication networks, VI Sem.2015
- HS248AT, Universal Human Values,IV,2015.

Professional Roles

Responsibilities

- Warden, RV Girls Hostel, RVCE.
- Co-ordinator of Center for Gandhian Principles and Value-Based Education.
- Member fo Malpractice Committee from 2025.

External Connect

- BoS Member for Department of EIE, DY Patil college of Engineering, Pune from 2024.
- Adviser to UPSC Board, New Delhi from 2011.
- Member of Ant ragging committee of RVU, Bengaluru from 2022.

