PROFILE

Dr. RAMAKRISHNAN. T

1/14 A, Agraharam Street,
Palankottai (Po),
Kalugumalai (Via),
Tenkasi (Dt.) – 628552
Tamilnadu.

Mobile: 91 – 9159228122

Career Objective:

I would like a career that gives me rich exposure through diverse assignment.

1. **Official Address** : Assistant Professor (Senior Grade)

Dept. of Electronics and

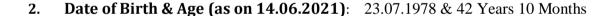Instrumentation Engineering

National Engineering College

K.R.Nagar, Kovilpatti – 628 503, Tamilnadu.

Mobile : **9159228122**

E-mail: 1. ramakrishnan@nec.edu.in

2. tramakrishnanklu@gmail.com

3. rndramakrishnan@gmail.com

2. **Date of Birth & Age (as on 14.06.2021)**: 23.07.1978 & 42 Years 10 Months

3. **Educational Qualifications**:

Exam Passed	Specialization	Percentage of Marks / CGPA	Month & Year of Passing	Institute/University
SSLC (10th Std)	Mathematics, Science, Social Science	83.2 % (First Class with Distinction)	April 1993	Government Higher Secondary School, Kalugumalai, Thoothukudi (Dt.), Tamilnadu. / Board of Secondary Education, Tamilnadu.
HSC (12th Std)	Mathematics, Physics, Chemistry, Biology	82.8 % (First Class with	March 1995	Government Higher Secondary School, Kalugumalai,

		(Distinction)		Thoothukudi (Dt.), Tamilnadu. / Board of Higher Secondary Examination, Tamilnadu.
B.E.	Electronics and Instrumentation Engineering	67.6 % (First Class)	April 1999	National Engineering College, Kovilpatti / Manonmaniam Sundaranar University, Tirunelveli, Tamilnadu.
M.Tech.	*Specialization:* Biomedical Engineering (Department of Applied Mechanics, IITM, Chennai)	CGPA 8.27 (First Class with Distinction)	June 2008 (June 2006 – June 2008)	Indian Institute of Technology Madras (IITM), Chennai, Tamilnadu.
Ph.D	*Specialization:* Biomedical Engineering (Under the Faculty of Information and Communication Engineering)	CGPA 8.00	Awarded on 22.12.2018	Anna University, Chennai, Tamilnadu.

4. Details of Employment :

Name of the Organization / Industry	Position / Designation held	Period		Duration		Total Experience
		From	To	Yrs	Mns	
National Engineering College, Kovilpatti.	Assistant Professor (SG) / EIE	01.08.2008	Till Date	12	08	18 Years 09 Months
	Lecturer / Electronics and Instrumentation Engineering	05.06.2002	31.07.2008 (Including M.Tech., study period)	06	01	
Arulmigu Kalasalingam College of Engineering, Srivilliputhur.	Lecturer / Instrumentation and Control Engineering	21.06.2001	19.12.2001	00	06	06 Months

| Lakshmi Ammal Polytechnic College, Kovilpatti. | Lecturer / Electronics and Communication Engineering | 15.12.2000 | 30.04.2001 | 00 | 04 | 04 Months |
| Scad Gramodhaya Polytechnic College, Cheran mahadevi. | Lecturer / Electronics and Communication Engineering | 22.01.2000 | 30.10.2000 | 00 | 09 | 09 Months |

5. **Research Papers Published in the International Journals:**

Academic year	Name of the Journal	Title of the Journal Paper	Indexed in			
			Web of Science	Scopus	PUBMED	Indian Citation Index
2014-15	International Journal of Applied Engineering Research (IJAER) *Impact factor: 0.18*	Neighbourhood Weighted Fuzzy C-Means (NWFCM) Clustering Algorithm for Segmentation of Brain Tumors in CT Images.	-	-	-	**Yes.** Vol. 10 No.20 (2015) Special Issues pp.15327-15330. May 2015.
	International Journal of Applied Engineering Research (IJAER) *Impact factor: 0.18*	Automatic Segmentation of Brain Tumor in CT Images using LIPC.	-	-	-	**Yes.** Vol. 10 No.20 (2015) Special Issues pp.15478 - 15483. May 2015.

Year	Journal	Title				
2015-16	International Journal of Control Theory and Applications (IJCTA) *Impact factor: 0.10*	Automatic Detection of Microaneurysm using Local Rotating Cross Sectional Profile Analysis.	-	-	-	**Yes.** 8(4), 2015, pp. 589 – 597. Sep' 2015.
2016-17	Journal of Medical Imaging and Health Informatics [Web of Science, SCI & Scopus Journal] (Publisher: American Scientific Publishers) *Impact factor: 0.659*	A Professional Analysis and Evaluation of Computed Tomography Brain Tumor Images using SDNN for Segmentation and SOM-LS-SVM for Classification.	**Yes.** Vol. 6, No.6, pp.1426–1429, Oct' 2016.	-	-	-
	International Journal of Biomedical Engineering and Technology [Web of Science, SCI & Scopus Journal] (Publisher: Inderscience Enterprises Ltd.)	Efficient implementation for classifying and segmenting of computed tomography brain tumor images using modified region growing with lion algorithm.	-	**Yes.** Vol. 23, No. 2/3/4, pp.159–179, Feb'2017.	-	-

	Impact factor: 0.245					
2017-18	Pattern Recognition Letters [Anna University – Annexure - I Journal] (Publisher: Elsevier) *Impact factor: 3.255*	A professional estimate on the computed tomography brain tumor images using SVM-SMO for classification and MRG-GWO for segmentation.	**Yes.** Vol.94, pp.163-171, July 2017.	-	-	-

6. <u>As Journal Reviewer:</u>

Active reviewer in the following research journals:

- Computers & Electrical Engineering (Publisher: Elsevier, Impact Factor: **2.663)**
- The Journal of Supercomputing (Publisher: Springer, Impact Factor: **2.469)**
- Computer Methods in Biomechanics and Biomedical Engineering: Imaging & Visualization (Publisher: Taylor & Francis, Impact Factor: **0.76)**
- Journal of Experimental & Theoretical Artificial Intelligence (Publisher: Taylor & Francis, Impact Factor: **2.111)**

7. <u>Research Papers Published in the International Conferences:</u>

S.No	Title of the Paper	Name of the Conference	Date	Organizer
1.	Emerging trends in Instrumentation phase for Medical Imaging.	ICDF 2008 (Sponsored by BIRC, University of Massachusetts, USA)	11th to 13th August, 2008.	Coimbatore Institute of Technology, Coimbatore, Tamilnadu.
2.	Segmentation and Location of Abnormality in Brain MR Images using Distributed	ICEVENT 2013 (IEEE Sponsored)	7th to 9th January, 2013.	SKP Engineering College, Tiruvannamalai,

				Tamilnadu.
3.	Comparison of Automatic Blood Vessel Segmentation methods in Retinal Images.	ICEVENT 2013 (IEEE Sponsored)	7th to 9th January, 2013.	SKP Engineering College, Tiruvannamalai, Tamilnadu.
4.	Segmentation of Brain Tumors in Computed Tomography Images using SVM Classifier	ICECS 2014 (IEEE Sponsored)	13th to 14th February, 2014.	Karpagam College of Engineering, Coimbatore, Tamilnadu.
5.	Neighbourhood Weighted Fuzzy C-Means (NWFCM) Clustering Algorithm for Segmentation of Brain Tumors in CT Images.	ICIIECS 2015 (IEEE Sponsored)	19th & 20th March, 2015.	Karpagam College of Engineering, Coimbatore, Tamilnadu.
6.	Automatic Segmentation of Brain Tumors in CT Images using LIPC.	ICIIECS 2015 (IEEE Sponsored)	19th & 20th March, 2015.	Karpagam College of Engineering, Coimbatore, Tamilnadu.
7.	An IOT based Respiration Rate Measurement using Breath Rate Sensor	ICRAET 2K18	22nd & 23rd March, 2018.	Arunachala College of Engineering for Women, Vellichanthai, Tamilnadu.
8.	A Professional Analysis on the Segmentation of Brain Cancer in MR Images using M-FCM	ICICT 2020	26th to 28th, Feb 2020	RVS Technical Campus, Coimbatore

8.   Research Papers Published in the National Conference:

S.No	Title of the Paper	Name of the Conference	Date	Organizer
1.	A Novel Iontophoresis approach for the treatment of Hyperhidrosis.	RETINA 2009	19th & 20th March, 2009.	National Engineering College, Kovilpatti.

9. Short Term Courses / Seminars /Workshops Attended :

S.No.	Title	Date	Organizer
1.	Modern trends in Industrial Instrumentation and Control.	3rd & 4th March, 2003	J.J.College of Engineering & Technology, Trichy.
2.	Advances in DSP & its applications.	17th to 19th April, 2003	National Engineering College, Kovilpatti.
3.	Embedded controllers for solid state drives.	21st & 22nd April, 2003.	K.S.Rangasamy College of Technology, Tiruchengode.
4.	Staff Development Programme	28.04.2003 to 11.05.2003	R.V.S college of Engineering & Technology, Dindigul.
5.	Recent Trends in Digital Signal Processing and its applications.	17.05.2004 to 28.05.2004	SSN college of Engineering, Kalavakkam, Chennai.
6.	Virtual Instrumentation	17.07.2004	National Engineering College, Kovilpatti
7.	Industrial Automation Using PLC.	13th to 15th October, 2004	National Engineering College, Kovilpatti.
8.	High Voltage Testing Techniques – HVTT '06	26.05.2006	National Engineering College, Kovilpatti.
9.	DCS & PLC overview	05.10.2009 to 09.10.2009	Yokogawa India Ltd., Bangalore & National Engineering College, Kovilpatti.
10.	Graphical System Design using LABVIEW for Researchers and Engineers.	11th to 13th November, 2009	National Instruments, Bangalore & National Engineering College, Kovilpatti.
11.	Research Issues on Biomedical Signal Processing and Instrumentation.	24th to 26th February, 2010	National Engineering College, Kovilpatti.
12.	Advancements in Medical Engineering towards Research (CSIR Sponsored).	17th to 19th March, 2011	National Engineering College, Kovilpatti.
13.	Advancements in Medical Engineering towards Research (DRDO Sponsored).	5th & 6th August, 2011	National Engineering College, Kovilpatti.
14.	Research Issues on Non Destructive Evaluation (BRNS Sponsored)	19th to 21st September, 2013.	National Engineering College, Kovilpatti.
15.	SCADA and its Recent Trends	18.04.2014	Vincisive Solutions Pvt Ltd.,

			Bangalore & National Engineering College, Kovilpatti.
16.	Empowering Indian Engineering Education for Global Expectations (DST Sponsored).	7th & 8th November, 2014.	ISTE (TN & P Section) and National Engineering College, Kovilpatti.
17.	Research Approaches and Contemporary Issues of Functional Genomics, Proteomics & Micro array Biological Modeling using Machine Learning in Bioinformatics Applications (DBT Sponsored).	13th & 14th November, 2014.	National Engineering College, Kovilpatti.
18.	Pedagogy for Effective use of ICT in Engineering Education.	5th to 31st January, 2015.	IIT Bombay & MHRD. Centre: Regional Centre of Anna University, Tirunelveli.
19.	Embedded System Design using PIC Microcontroller.	31st July, 1st & 3rd August, 2015	National Engineering College, Kovilpatti.
20.	Implementation of Soft Computing Techniques (IEEE Sponsored).	5th to 7th, August, 2015	IEEE Computational Intelligence Society, Madras Chapter and National Engineering College, Kovilpatti.
21.	Technology Enabled Teaching Learning Process	27th to 29th May, 2017	MHRD, Govt. of India & NITTTR Chennai
22.	Research perspectives and challenges in instrumentation aspects of IoT (IOT'17).	25th to 27th October, 2017	National Engineering College, Kovilpatti.
23.	Foundations on Machine and Deep Learning	23rd to 27th April, 2018	IISc, Bengaluru.
24.	*GIAN* Course: Models of Walking and Running: Human Gait and Robot Locomotion	22nd to 26th July, 2019	Indian Institute of Technology Madras (IITM), Chennai.

10.   NPTEL Online Certification

i.   Introduction to Research (Jan to Feb 2016) – ELITE Certification

ii.   Biomedical Nanotechnology (Aug to Sep 2018) – ELITE Certification

iii.   BioMEMS and Microfluidics (Sep to Nov 2020) – ELITE with SILVER Certification

11. **Industrial Knowhow Training**

    i.   Attended an Industrial Training - 1 at "The Ramco Cements Ltd., Virudhunagar, Tamilnadu" during the period from 30.10.2016 to 08.11.2016.

    ii.   Attended an Industrial Training – 2 at "Madura Coats Private Limited, Ambasamudram, Tirunelveli (Dt), Tamilnadu" during the period from 01.02.2020 to 07.02.2020.

12. **Acted as Chair Person / Co-chair Person for the Technical Sessions:**

Acted as Chair person / Co-chair person	Type of Programme	Date	Organizer
Chair person	Technical Symposium (INTESY'15)	20.03.2015	EIE Dept., National Engineering College, Kovilpatti.
Judge	JUMP'17	August 2017	EIE Dept., National Engineering College, Kovilpatti.

13. **Additional Assignments:**

Position Held	College Level / Department level	Period
NEC (*National Engineering College*) - Staff Club Treasurer	College Level	June 2004 – June 2006 & June 2008 – June 2009
NEC - ISTE Students Chapter – Overall Co-ordinator	College Level	June 2009 – June 2014
Stock Verification Committee Convener (Boys hostel, High Voltage Lab & Hydraulics Lab)	College Level	April 2011 & April 2014
Parents Interaction Committee Coordinator (for NBA)	College Level	August 2013
NEC – Alumni Association – EIE Department Executive Member	College Level	2014 - 2015
NEC - IEEE Students Chapter – Faculty Co-Coordinator	College Level	June 2014 – June 2017
Practical Exam Time Table – Faculty In-charge	Department Level	June 2010 – June 2013
Consumables – Purchase and Maintenance – Faculty	Department	June 2010 – June 2014

In-charge	Level	
Actively assisted for NBA Document preparation	Department Level	2012 - 2013
Actively involved in Curriculum identification/Syllabus framing under 2013 Regulations.	Department Level	2013 - 2014
Computer Lab – Purchase and Maintenance – Faculty In-charge	Department Level	June 2014 – Till Date
Department Association – Faculty In-charge	Department Level	June 2015 – June 2016
Department – BOS Member	Department Level	June 2016 – Till Date
NEC –Youth welfare association – Faculty Advisor	College Level	June 2017 – June 2018
Consumables – Purchase and Maintenance – Faculty In-charge	Dept. Level	June 2018 – Till date
NEC –Youth welfare association – Faculty Co-advisor	College Level	June 2018 – Till date
NEC –Institution Innovation Cell (IIC) – EIE Department Faculty In-charge	College Level	Jan' 2019 – Till date

14. **Society Membership:**   Life member – **ISTE**

Life Member – **Biomedical Engineering Society of India (BMESI)**

Secret of success: " I²CS "
i.e. Interest, Involvement, Commitment & Success

With kind and humble regards,

Dr. T. RAMAKRISHNAN

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