

Name : K.SUMATHI  
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Department : Computer Science and  
Engineering



## PERSONAL DETAILS

Date of Birth : 29.10.1983  
Age : 38  
Gender : Female  
Marital Status : Married  
Religion : Hindu  
Nationality : Indian  
Community : MBC  
AADHAR NO : 806020321744  
Blood group : A+ve  
Languages Known : English and Tamil  
Permanent Address : W/O S.Thirumurugan  
100, North Street,  
Kandasamypalayam,  
Sivagiri (Via)  
Erode-638 109

## ACADEMIC QUALIFICATION

Qualification	Name of Institute / University	Year of Passing	Percentage of Marks	Achievements
Ph.D.,	Anna University , Chennai	Nov'17		
M.E (CSE)	Velalar College Of Engineering and Technology	May'10	9.39(CGPA)	First Class with Distinction
B.E (CSE)	Velalar College Of Engineering and Technology	May'05	76%	First Class with Distinction
HSC	S.S.V. High Sec.School,Kodumudi	Mar 2001	83.5%	First
SSLC	Government High School,Thandampalayam	Mar 1999	88.6%	First

## ACADEMIC EXPERIENCE : 12 YEARS 10 MONTH

S.No	Designation	Name of the Employer / Institution	Period of Employment
01	Associate Professor	M.Kumarasamy College of Engineering, Karur	<b>3 years</b> (June 2018-May2021)
02	Assistant Professor	Erode Builder Educational Trust Group of Institution, Kangayam	<b>5 years</b> (June2013 to May2018)
03	Assistant Professor	Velalar College of Engineering and Technology, Erode	<b>03 Years 01 months</b> (May2010 to May 2013)
04	Lecturer	Erode Sengunthar Engineering College	<b>11 months</b> (June 2006 to Apr 2007)
05	Lecturer	Maharaja Engineering College	<b>10 months</b> (Aug 2005 to May 2006)

## RESEARCH INTERESTS

- Networks & Network Security
- Internet of Things
- Machine Learning

## SUBJECTS HANDLED (UG & PG)

- Computer Architecture
- Problem solving and python programming
- Computer Networks
- Cryptography and Network Security
- High speed Networks

- Software Engineering
- Data structures and Algorithms (UG & PG)
- Theory of Computation (Anna University – Covai)
- Data warehousing and data mining
- Information security
- Embedded systems
- Compiler design
- Programming for problem solving
- Internet of things

## JOURNAL PUBLICATIONS

1. K.Sumathi ,Dr.M.Venkatesan,2014," A survey on detecting compromised nodes in Wireless sensor networks", International Journal of Computer Science and Information Technologies, Vol. (6)/ 2014/7720-7722.
2. K.Sumathi ,Dr.M.Venkatesan,2015," Identification of packet droppers in wireless sensor networks using a novel algorithm", International Journal of Applied Engineering Research, ISSN 0973-4562, Vol. 10 No.38 /2015/ 28548-28552.
3. K.Sumathi ,Dr.M.Venkatesan, ,2016," Trust based detection of malicious nodes in wireless sensor networks", International Journal of Advanced Research in Computer Engineering &Technology,Volume 5 Issue 2/2016/378-381.
4. K.Sumathi ,Dr.M.Venkatesan, ,2016," A Survey on congestion control in WSN", International Journal of Computer Applications, Volume 147(6)/2016/6-11.
5. K.Sumathi ,Dr.M.Venkatesan, ,2017," An Effective Load Balanced and Congestion Control Protocol for Wireless Multimedia Networks", Asian Journal of Research in Social Sciences and Humanities 2249-7315,Volume 7/3/2017/289-301.
6. Dr.K.Sumathi ,K.Jose Triny,2019," Secured data outsourcing in cloud with ECC Encryption ",International Journal of Innovative Technology and Exploring Engineering 2278-3075, Volume 8 /8/ 2019/ 1223-1227.
7. Dr.K.Sumathi,Soundarya S, 2019," Adaptive Clock Synchronization In Wireless Sensor Networks Using Pi Method", Intelligent Computing Research Studies in Life Science ISSN 2250 – 0480, Volume SP-06/SP-5/32-39.
8. Dr.K.Sumathi, Dr.P. Pandiaraja,2019," Dynamic alternate buffer switching and congestion control in wireless multimedia sensor networks", Peer-to-Peer Networking and Applications.

9. M.Hemasri Dr.K.Sumathi,2020," SLA Based Combinatorial Resource Allocation Model in Cloud Computing", International Journal of Advanced Science and Technology, ISSN: 2005-4238 (Print) ISSN: 2207-6360 (Online), Vol.29, No.7S, April 2020,1151-1159.
10. Dr.K.Sumathi ,Naveena,Prasanth,Revanthkumar,Srikeerthanaa,March 2020," E-Health based Patient Surveiling device", International Journal of Emerging Trends in Engineering Research, vol.8,No.3, 792-796
11. Dr.K.SumathiAdchayaP,Jayasri M ,Nandhini B ,Pavithra J T, April 2020 "Smart Irrigation and Agriculture Monitoring system using Cloud Server based on IoT", International Journal of Advanced Trends in Computer Science and Engineering, Vol.9, No.2, 1082-1085.
12. Dr.K.Sumathi,Soundarya S, 2020,"Wireless sensor network protocols of clock synchronization-A survey",International journal of Advanced science and Technology,Vol.29.N0.12s.180-185.
13. Achyut Shankar, P Pandiaraja, K Sumathi, Thompson Stephan, Pavika Sharma,2021,"Privacy preserving E-voting cloud system based on ID based encryption",Peer-to-Peer Networking and Applications, vol.14,No.4, 2399-2409.
14. Dr.K.Sumathi,Priyadharshini,2021,"Insect detection in rice crop using Google code lab",Turkish Journal of Computer and Mathematics Education (TURCOMAT),vol.12,No.2, 2328-2333.

## CONFERENCE PUBLICATIONS

1. K.Sumathi,2013," Secure Data routing in Wireless sensor networks", National Conference-NCICIC'13- Easa College of Engineering and Technology.
2. K.Sumathi,2016," Enhancing the life time of wireless sensor network by using cluster head selection mechanism",2<sup>nd</sup> National conference on technological advancements in Engineering - SreeNarayana Guru College of Engineering.
3. Dr.K.Sumathi,A.Anusuya,2019,"ECC encryption and Secure auditing", International Conference on Advanced Science and Engineering Research -Alameen Engineering College.
4. Dr.K.Sumathi,2019,"Data outsourcing in cloud with ECC encryption and Secure auditing", International Conference on Recent Trends in Computer Science-Bharathidhasan Arts and Science.

5. Dr.K.Sumathi,2020,"Patient monitoring system using IoT",International Online conference on current trends and challenges in health care informatics and technology-KSR College of Engineering.
6. Dr.K.Sumathi,2021,"E-Healthcare Patient Information Retrieval and Monitoring System Using SVM", Virtual mode-Advances in communication, Machine learning, Embedded with Internet of Things-Kongu Engineering College.

#### FACULTY PARTICIPATION

S.No	Year	From	To	Event type	Title of the Event	Name of the Organizer
1.	2006-2007	13.7.2006	24.7.2006	FDP	Mobile computing	K.S.R College of Engineering
2.	2006-2007	17.11.2006	-	Conference	Wireless Application Protocol	Erode Sengunthar Engineering
3.	2010-2011	17.9.2011	-	Workshop	Workshop on knowledge discovery	Narasu's Sarathy Institute of Technology
4.	2011-2012	10.2.2012	-	Conference	A JXTA based secure and integrated P2P platform for Distributed, Collaborative and Ubiquitous Computing	Kongu Engineering college
5.	2011-2012	17.3.2012	-	Conference	End to End Restorable oblivious routing of host model traffic	Sasurie College of Engineering
6.	2011-2012	14.9.2012	15.9.2012	Seminars	Cyber security challenges and role of intelligence	K.S.R College of Engineering
7.	2012-2013	1.2.2013	2.2.2013	Conference	Fast detection and recovery of compromised nodes in sensor networks.	Maharaja Engineering college for Women
8.	2012-2013	22.2.2013	-	Conference	Cloud computing	Easa College of Engineering and Technology
9.	2013-2014	20.6.13	-	Orientation course	ISO 9001-2008 Internal Audit	Erode Builder Educational Trust Group of Institutions
10.	2013-2014	24.8.2013	-	Seminars	Latex and Research publications	Sri Krishna College of Engineering and Technology

11.	2013-2014	14.12.2013	-	Seminar	Research colloquium	Erode Builder Educational Trust Group of Institutions
12.	2014-2015	19.7.2014	-	Seminar	Writing Effective Research Paper(s) and Thesis	K.S.R College of Engineering
13.	2014-2015	25.5.2015	30.5.2015	STTP	Introduction to design and Analysis of Algorithms	Erode Builder Educational Trust Group of Institutions
14.	2017-2018	23.8.17	24.8.17	Workshop	Applications of Artificial Intelligence for combating cyber crimes	Nandha Engineering college
15.	2017-2018	13.11.17	26.11.17	FDP	Deep learning and its applications in machine vision and robotics	Nandha Engineering college
16.	2017-2018	5.12.17	11.12.17	FDP	Knowledge management	Vidyaa Vikas college of Engineering and Technology
17.	2018-2019	4.1.19		FDP	Data Science using Python	NIIT Karur
18.	2018-2019	13.5.19	14.5.19	FDP	Introduction to Bigdata analytics	MIET Engineering,Trichy
19.	2018-2019	1.2.19	3.2.19	WORKSHOP	Blockchain and Cryptocurrency	NIIT,Trichy
20.	2018-2019	22.2.19		WORKSHOP	Question paper setting and Evaluation Techniques	MKCE,Karur
21.	2019-2020	29.1.20	30.1.20	FDP	Deep learning and Artificial Intelligence	Sri KrishnaCollege of Technology,CBE

22.	2019-2020	4.5.20		FDP	WE THE LEADERS FOUNDATION	MKCE,Karur
23.	2020-2021	26.6.20		FACULTY INDUCTION	Effective and Ethical way of doing Research	MKCE,Karur
24.	2020-2021	6.7.2020		FDP	Key Attributes of Engineering	MKCE,Karur
25.	2020-2021	8.8.2020		WEBINAR	Increasing the effectiveness of Online classes	PSNA,Dindugul
26.	2020-2021	3.10.2020		WEBINAR	IoT Protocols: Design and Challenges for Wireless Communication Systems	JECRC,Jaipur

**Books/Instruction materials/monographs published:**

- Aptitude Training material (Private Circulation)
- E-BOX Training material (Private Circulation)

**ONLINE CERTIFICATIONS**

- Completed 12 weeks NPTEL online course in the title “Introduction to Internet of Things” and secured 89% and got Elite certification in the academic year 2018-19.
- Completed online course in “Game development using PYGAME” conducted by GUVI.
- Completed 12 weeks SWAYAM online course in the title “Computer Networks” and secured 75% in the academic year 2019-20.
- Participated online Faculty Enabled Program on “Python programming through INFYTO Platform” conducted by INFOSYS from 25.5.20 to 29.5.20 and got A+ grade.
- Completed online course in “Introduction to Project Management” conducted by SIMPLI LEARN.

- Completed AICTE & ATAL online FDP on “Block chain” from 15.9.20 to 19.9.20 at LAKSHMI NARAIN COLLEGE OF TECHNOLOGY.
- Completed online course in “PYTHON 3” conducted by SOLO LEARN.
- TEQIP-III Sponsored online workshop on “Emerging Trends in Nanotechnology” from 21.9.20 to 25.9.20 organized by Jaipur Engineering College and Research Centre, Jaipur.
- Completed AICTE & ATAL online FDP on “Cyber Security” from 23.11.20 to 27.11.20 at Sri Jayachamarajendra College of Engineering.
- Completed 12 weeks NPTEL online course in the title “Computer Networks and Internet Protocol” and secured 66% and got Elite certification in the academic year 2020-21.
- Attended AICTE Sponsored online 6 days training programme on “Artificial Intelligence and Deep learning for Computational Biology” from 4<sup>th</sup> to 9<sup>th</sup> January 2021.

#### **MEMBERSHIP IN PROFESSIONAL BODIES**

- Life Membership in Indian Society For Technical Education

#### **DECLARATION**

I hereby declare that all the information provided above is true to the best of my knowledge.

Place:  
Date:

yours faithfully,  
  
(K.SUMATHI)