

Name : K.SUMATHI
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Department : Computer Science and
Engineering



PERSONAL DETAILS

Date of Birth : 29.10.1983
Age : 38
Date of Joining : 02.06.2021
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	3 years (June 2018-May2021)
02	Assistant Professor	Erode Builder Educational Trust Group of Institution, Kangayam	5 years (June2013 to May2018)
03	Assistant Professor	Velalar College of Engineering and Technology, Erode	03 Years 01 months (May2010 to May 2013)
04	Lecturer	Erode Sengunthar Engineering College	11 months (June 2006 to Apr 2007)
05	Lecturer	Maharaja Engineering College	10 months (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",2nd 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 INFYTQ 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 4th to 9th 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)