

## **PROFILE OF THE FACULTY**

**1. Name, Address & E-mail : Dr. R. Kalaiarasi**

Assistant Professor  
School of Computer Science  
Tamil Nadu Open University  
Saidapet, Chennai - 600 015  
kalaiarasidr@gmail.com



**2. Designation & School** : Assistant professor  
School of Computer Science

**3. Subject Specialization** : Mobile Ad Hoc Networks, Sensor Networks,  
Data Mining, Deep Learning.

**4. Educational Qualification**

<b>S.No.</b>	<b>Examination Passed</b>	<b>Name of the Board/ University</b>	<b>Year of Passing</b>	<b>Subject</b>
1	PG	M C A - University of Madras	2007	Computer Science
2.	Ph.D	Anna University	2014	Computer Science

**5. Fellowship/Award**

<b>S.No.</b>	<b>Name</b>	<b>Institution</b>	<b>Purpose of Award</b>	<b>Year</b>
1	Women Scientist Award (DST- WOS-A)	Department of Science and Technology	Research Project	May 2010 - 2013
2.	Travel Grant	Department of Science and Technology, New Delhi, India	To attend the International Conference at Singapore	2011

## 6. Teaching Experience

S.No	Name of Employer	Designation	Period of Employment	
			From	To
1	Dr. R. Kalaiarasi	Assistant Professor	4.03.2015	Till Date

## 7. a) Administrative Experience

S.No.	Positions held	Name of the Institutions	Duration		Year of Experience
			From	To	
1.	Director (i/c), SOLIS	Tamil Nadu Open University	22.01.2020	Till Date	7 Months
2.	Head (i/c), Software Unit	Tamil Nadu Open University	June 2016	20.01.2020	3 Years 7 Months
3.	Coordinator (Academic Related Activities of SOCS)	Tamil Nadu Open University	03.01.2017	20.01.2020	3 Years

## b) Additional Responsibility

S.No.	Positions held	Name of the Institutions	Duration		Year of Experience
			From	To	
1	Nodal Officer, NAD	Tamil Nadu Open University	July 2017	Till date	3 Years 2 Months
2	Nodal Officer, NKN	Tamil Nadu Open University	June 2018	Till date	3 Years 4 Months
3	Nodal Officer, AISHE	Tamil Nadu Open University	Feb 2018	Till date	2 Years 7 Months
4	University Coordinator, INFLIBNET	Tamil Nadu Open University	Dec 2017	Till date	2 Years 9 Months

## 8. Research Supervision

<b>Degree</b>	<b>Number Enrolled</b>	<b>Thesis Submitted</b>	<b>Degree Awarded</b>
M.Phil.	1	Nil	Nil
Ph.D.	4	Nil	Nil

## 9. Books, Articles and Research Publications and Presentations

a) **Articles published – Regional : Nil**

b) **Research Papers in Journals (National & International)**

<b>S. No.</b>	<b>Title of the Paper</b>	<b>Journal</b>	<b>Month&amp; Year</b>	<b>Vol. (Issue), Pages</b>	<b>Impact Factor/ H index/ i10</b>
1.	Recovery of Disaster in Cloud Environment – Study	International Journal of Engineering Applied Sciences and Technology	Sep-2019	Vol. 4, Issue 5, Pages 401-404	Impact Factor: 4.982
2.	Survey on Social Networking Analysis and Clustering	Journal of Emerging Technologies and Innovative Research (JETIR)	May 2019	Volume 6, Issue 5 pp 216-218	Impact Factor: 5.87
3.	Transforming Patient Diseases Data Using Security Devices- Access	International Journal of Engineering and Techniques- IJET	Nov - Dec 2017	Vol. 3, Issue (6) Pages 7-12	Impact Factor 6.088
4.	Multi-Channel Three Dimensional Probability CSMA Protocol of Analysis with Monitoring Function for WSN	International Journal of Engineering Research in Computer Science and Engineering (IJERCSE)	September 2017	Vol 4, Issue 9	Impact Factor 4.890

5	A Realistic Study of Mobile Ad Hoc Networks	International Journal of Modern Trends in Engineering and Research (IJMTER)	October – 2015	Volume 02, Issue 10, pp. 126-131	Impact Factor 1.711
6.	A Pragmatic Study of E – Governance	Mission for Vision 2020: An Indian Journey	2015		Impact Factor
7.	A Novel RTS-CTS Collision Avoidance Algorithm to Reduce the Collisions and Improve the QoS in Mobile Ad hoc Networks	Asian Journal of Scientific Research	2013	vol.6, no.4, pp. 797-804	Impact Factor 0.31
8.	Performance Improvement of Mobile Ad Hoc Network Using Particle Swarm Optimization	Journal of Computational Information Systems	2013	vol.9, no.11 pp.1-9	Impact Factor 0.25
9.	Timeout Misbehavior Detection Algorithm: A Novel Method for the Detection of MANET Misbehavior	International Review on Computers and Software	2013	vol. 8, no.5, pp. 1091-1096	Impact Factor 0.336
10.	Performance Analysis of Contention Window Cheating Misbehaviors in Mobile Ad hoc Networks	International Journal of Computer Science & Information Technology (IJCSIT)	2010	vol. 2, no.5, (pp. 31-42)	Impact Factor 2.28
11.	Energy efficient clustering and routing in mobile wireless sensor network	International Journal of Wireless and Mobile Networks	2010	vol. 2, no 4, PP 106-114	Impact Factor 0.23

**c) Full paper in Conference/Seminar Proceedings**

S.No.	Title with page	Details of Publications	ISSN/ ISBN No.
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	<b>no's</b>		
1.	Survey on Social Networking Analysis and Clustering	Proceedings of the International Conference on Researches in Science and Technology (ICRST – 19).	ISSN:9788192958050
2.	A Study of Wi-Fi access data security in Internet of Things PP 106-114.	Proceedings of the National Conference on Emerging Trends in Computing Technologies (NCETCT-18 )– Jan 2018	ISSN: 2395-1303
3.	Smart Technology for healthcare side using Internet of Things	Proceedings of the National Conference on “ Recent Innovations in Engineering, Technology, Management & Applications (RIETMA – 2018) held on 6 <sup>th</sup> & 7 <sup>th</sup> April 2018.	ISBN: 9788193802403
4.	Multi-Channel three Dimensional probability CSMA protocol of analysis with monitoring function for WSN	Proceedings of the 3rd International Conference on Recent Challenges in Engineering and Technology (ICRCET-17) held 12 <sup>th</sup> -13 <sup>th</sup> September 2017, Tirupati	ISSN (Online) 2394-2320
5.	Data Mining for Internet of Things pp. 231- 238.	Proceedings of the State level Conference on Latest Trends in Computing Technologies (InnovIT – 2017), held on 3 <sup>rd</sup> March 2017.	ISBN:978-81-932645-8-4
6.	Energy Balanced on Demand Clustering Algorithm Based on LEACH-C in Wireless Sensor Network PP 5-7	Proceedings of the International Conference on Consequences of Recent Researches in Engineering & Technology – 2016 (IC2R2ET'16)	
7.	Mitigating Misbehaving Node Using Receiver Network Allocation Vector	proceedings of the 3 <sup>rd</sup> International Conference on Signal Acquisition and Processing (ICSAP 2011) February 26-28, 2011, Singapore.	ISBN: 978-1-4244-9385-2

8.	ANAV Timer for Detecting MAC Layer Misbehavior in MANET, pp. 75-78	Proceedings of International Conference on Advances in Communication, Network, and Computing (CNC 2010) October 04-05, 2010, Calicut.	ISSN: 1793-8163
9.	Energy efficient mobile wireless sensor network routing protocol pp. 642-650.	Communication in Computer and Information Science, Recent Trends in Network and Communications, Springer-Verlag Berlin Heidelberg, 2010	Print ISBN: 978-3-642-14492-9 Online ISBN: 978-3-642-14493-6

## 10. National/International Conferences

### a) Papers Presented in National/International Conferences

S.No	Title of the Paper	Title of the Conference/ Seminar	Organized by
1.	Approach to Climate Changes Prediction Using AI Technology	Virtual International Conference on Computational Intelligence and Applications (ICCIA-2020)	Department of Computer Science and Engineering, & Information Technology at Mohamed Sathak A J College of Engineering
2.	Essential Role of Technology Management in Empowering Education	two day National Conference on Technology Enabled Learning: Challenges and Strategies	School of Education, TNOU, Chennai
3.	Survey on Social Networking Analysis and Clustering	International Conference on Researches in Science and Technology (ICRST - 19)	Association for Scientific and Academic Research
4.	Multi-Channel three dimensional probability CSDMA protocol Analysis with monitoring function for WSN	International Conference on Recent Challenges in Engineering & Technology (ICRCET-17), held at Tirupati on September 2017	Annamacharya Institute of Technology & Sciences & Institute For Engineering Research and

			Publication (IFERP)
5.	Sensor interface for Industrial wireless based on Development ARM7 Sensor Network in IOT Environment	International Conference on Trending researches in Engineering, Science & Technology – August 2017	Institute of Engineering Research
6.	Energy Balanced on Demand Clustering Algorithm Based on LEACH-C in Wireless Sensor Network	International Conference on “Consequences of Recent Researches in Engineering & Technology – 2016 (IC2R2ET’16)” and held on 5 <sup>th</sup> November, 2016 at Salem	Institute of Engineering Research
7.	A Pragmatic Study of E Governance	Two-day National Seminar on Vision India 2020: Dr. A.P.J. Abdul Kalam’s Dreams through Women on 15 <sup>th</sup> & 16 <sup>th</sup> , October 2015	Publication Division & Department of Women’s Studies, Bharathidasan University, Tiruchirappalli
8.	Mitigating Misbehaving Node Using Receiver Network Allocation Vector	International Conference on Signal Acquisition and Processing (ICSAP 2011) at Singapore, between February 26-28, 2011	Institute of Electrical and Electronics Engineers (IEEE)
9.	ANAV timer for detecting MAC layer misbehavior in MANET	International Conference on Advances in Communication, Network, and Computing (CNC 2010) October 04-05	The Association of Computer Electronics and Electrical Engineers (ACEEE)

**b) Participation in International Conferences/ Seminars/ Symposia/ Workshop**

<b>S.No.</b>	<b>Name of the event</b>	<b>Place &amp; dates</b>	<b>Attended</b>
1.	TamilNadu Open University- Board of Studies-Member-Orientation Programme	TNOU 08.06.2020	Attended
2.	NAAC Accreditation Process for ODL Institutions in India	TNOU 14 <sup>th</sup> Dec, 2019	Attended
3.	International Conference on Trending researches in Engineering, Science & Technology - 2017 (IER-TEST'17)	Salem 31 <sup>st</sup> August 2017	Attended
4.	Inclusive Education for Children with Diverse Needs	Tamil Nadu Open University, Chennai 18 <sup>th</sup> Sep 2016	Attended
5.	Skill Development: Global Trends and Best Practices	Loyola College, Chennai 25 <sup>th</sup> July 2016	Attended
6.	Tamil Minnool (e-Book) Uruvakkan	Tamil Nadu Open University, Chennai 11 <sup>th</sup> July 2016	Attended
7.	Effective Office Administration & Disciplinary Procedures	Tamil Nadu Open University, Chennai, 4 <sup>th</sup> May 2016	Attended
8.	Communication Skill for Effective Teaching & Innovation in Higher Education	Tamil Nadu Open University, Chennai 3 <sup>rd</sup> May 2016	Attended
9.	Enhancing Quality of Work Life: The Role of Soft Skills”	Tamil Nadu Open University, Chennai 30 <sup>th</sup> Nov 2015	Attended
10.	Author Workshop	Anna University, Chennai 2 <sup>nd</sup> Nov 2015	Attended
11.	Iron Man of India Shri Sardar Vallabhai Patel: Role in Integration of Indian States	Tamil Nadu Open University, Chennai 30 <sup>th</sup> October 2015	Attended
12.	Thrust Areas in Mathematics	Tamil Nadu Open University,	Attended



		Chennai 16 <sup>th</sup> October, 2015	
13.	Regional Training Programme on URKUND – An Anti Plagiarism Detection Tool	Anna University, Chennai 22 Sep 2015.	Attended
14.	Researching, Writing and Publishing – Special Reference to Education	Tamil Nadu Open University, Chennai 21 <sup>st</sup> August 2015	Attended
15.	Empowering India Through Open and Distance Learning: Breaking Down Barriers, Building Partnership and Delivering Opportunities	Tamil Nadu Open University, Chennai 23 <sup>rd</sup> to 25 <sup>th</sup> April 2015	Attended
16.	Author Workshop	Anna University, Chennai 17 <sup>th</sup> March 2015	Attended
17.	Indo – Australian Conference on Biomaterials, Tissue Engineering, Drug Delivery System & Regenerative Medicine (BiTERM - 2015)	Anna University, Chennai 5 <sup>th</sup> to 7 <sup>th</sup> February 2015	Attended
18.	Author Workshop on Book / Journal Publishing	Anna University, Chennai 24 <sup>th</sup> September 2014	Attended
19.	IEEE Xplore Digital Library User Awareness Workshop	Anna University, Chennai 18 <sup>th</sup> November, 2013	Attended
20.	SANGOSHITHI – 2012 (Recent trends in computer and networking technologies)	BHAVINI, Kalpakkam 23 <sup>rd</sup> December, 2012	Attended
21.	International Workshop on Decision Making and Optimization	Anna University, Chennai 18 <sup>th</sup> – 30 <sup>th</sup> April, 2011	Attended
22.	AICTE-QIP Sponsored Short-term Course on Recent Trends in Computer Networks	Anna University, Chennai 18 <sup>th</sup> – 30 <sup>th</sup> April, 2011	Attended
23.	16th International Conference on Advanced Computing &	Madras Institute of Technology,	Attended

	Communications (ADCOM 2008)	Chennai 14 <sup>th</sup> – 17 <sup>th</sup> December 2008	
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**c) Number of Conferences/Seminars/Symposia/Workshop attended through virtual platform : 25**

**11. Conferences/Seminars/Symposia/Workshop organized (Regional, National, International)**

<b>S.No.</b>	<b>Name of the Event</b>	<b>Place and Date</b>	<b>Role</b>
1.	URKUND (Anti-plagiarism) Web Training programme	Tamil Nadu Open University 29.02.2020	Organizing Secretary
2.	One Day National Seminar on “Research Article writing and Plagiarism Checking”	Tamil Nadu Open University 07.02.2019	Organizing Secretary
3.	One Day National Seminar on “Emerging Technologies in Big Data and Social Media”	Tamil Nadu Open University 01.09.2016	Organizing Secretary
4.	One Day National Seminar on “E-Governance in Universities”	Tamil Nadu Open University 29.9.2015.	Organizing Secretary

**12. Served as Member in Professional Bodies/Committees (BoS, Academic Council, Inspection Committees, National forums etc.)**

<b>S. No.</b>	<b>Member in Professional Bodies</b>
1.	Member, Board of Studies of SOCS , TNOU
2.	Member, Academic Council Member, TNOU
3.	Expert committee member- Commissionerate of e-Governance to finalize the draft Scheme and Curriculum.
4.	Member - State Integrated Board of Studies for Tamilnadu State Council for Higher Education.