

## BIO DATA



Name : Dr. M.GOMATHY NAYAGAM

Designation : Associate Professor

Department : Computer Science and Engineering

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### 1. Educational Qualification

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Degree	Branch / Specialization	Institute/University	Year of Passing
B.E.	Computer Science and Engineering	Manonmaniam Sundarana rUniversity, Tirunelveli	2003
M.E	Network Engineering	Anna University, Chennai	2006
Ph.D	Information and Communication Engineering	Anna University, Chennai	2020

### 2. Professional/ Industry Experience (in chronological order) (16.1 Years)

S.No	Designation	Institution/Organization	Period	
1.	Associate Professor	Ramco Institute of Technology, Rajapalayam	Sep 2021	Till date
2	Assistant Professor (SG)	Ramco Institute of Technology, Rajapalayam	June 2018	Sep 2021
3.	Assistant Professor	Mount Zion College of Engineering and Technology, Pudukkottai	Dec 2016	May 2018

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4.	Assistant Professor	Einstein College of Engineering, Tirunelveli	June 2012	July 2016
5.	Assistant Professor II	Kalasalingam University, Krishnankoil	Jan 2011	May 2012
6.	Senior Lecturer	Kalasalingam University, Krishnankoil	Jul 2009	Jan 2011
7.	Lecturer	ArulmiguKalasalingam College of Engineering, Krishnankoil	Jul 2006	Jul 2009
8.	Lecturer	Sun College of Engineering and Technology, Nagercoil	Jul 2003	Aug 2004

### 3. Research Interest

**Grid and Cloud Computing, Computer Vision Algorithms and Networking**

### 4 Publications

#### 4.1. PATENT PUBLISHED & GRANTED

1. Dr.J.Amutharaj,**M.Gomathy Nayagam**, Dr.D.Sobya, Gethzi Ahila Poornima and P.Ramkumar, "Surveillance Automation for Detection and Identification of Human Behaviors", **ApplicationNo.202041036283A**, India, **Date of Publication:11.09.2020.Status:** Published
2. Janani, A. P.; S, Arjun.; G.S, Prasanna Lakshmi.; Subhashini, R.; Sudha, N.; Usha, D.; Kavitha, K.; **Gomathy Nayagam, M.**; Thangakrishnan, M. Suresh; Rathika, A, "**Integrated Intelligence Resource And Security Management System For Cloud Data Centers**",**Application No. 2021102752, Date of Filed: 21.05.21, Australia, Status:** Granted
3. Dr. D. Vijendra Babu, Dr. C. Karthikeyan,Dr. Somasundaram Krishnan, Dr. M. Venkatesan, Mr. T Ch Anil Kumar, Mr. N. Bharath Kumar,Dr. Karthikeyan Palaniappan, **Dr. M. Gomathy Nayagam**, Dr. N. Satheesh Kumar, Dr. K. Venkatachalam," **Pre-Programmed Drone To Capture Images And Record Video**",**Application No. 345670-001, Date of Filed: 03.07.2021, India, Status:** FER Received
4. Amutharaj, J.; Usha, S.; Anitha, J.; Bhuvanewari, P.; T., Kamalraj; S., Vijayanand; D. N, Bhagya Lakshmi; **M.Gomathy Nayagam**; Poornima, I. Gethzi Ahila; C. V., Pallavi; C., Niranjan Murthy; Subburaj, T., "**Dryland agriculture and yield gap analysis by machine learning algorithms using IOT Sensors**", **Application No. 2021104029, Date of Filed:25.08.2021, Australia, Status:** Granted.

#### 4.3. JOURNAL PUBLICATIONS

1. N. Arivazhagan, K. Somasundaram ,D. Vijendra Babu, **M. Gomathy Nayagam**, R. M. Bommi, Gouse Baig Mohammad, Puranam Revanth Kumar, Yuvaraj Natarajan, V. J. Arulkarthick, V. K. Shanmuganathan, K. Srihari , M. Ragul Vignesh and Venkatesa Prabhu Sundramurthy, (2022) "Cloud-Internet of Health Things (IOHT) Task Scheduling Using Hybrid Moth Flame Optimization with Deep Neural Network Algorithm for E Healthcare Systems", Scientific Programming, Vol. 2022, pp. 1-12, (IF: 1.45), <https://doi.org/10.1155/2022/4100352>. (SCIE Indexed)
2. **Gomathy Nayagam M**, K.Srinithisivasankari, Dr.K.Ramar and Dr.K.Vijayalakshmi (2020),"A study of CNN based Brain Tumor Detection using Deep Learning", Interantional Journal of Critical Reviews, Vol.7, No.14., pp.1930-1937.(Scopus Indexed)

3. **Gomathy Nayagam M**, Amirtha P, Dr.K.Ramar, and Dr.K.Vijayalakshmi (2020), “Tomato Plant Disease Detection based on Convolutional Neural Network with Data Augmentation”, *International Journal of Critical Reviews*, Vol.7, No.14., pp. 1921-1929.(Scopus Indexed).
4. **Gomathy NayagamM** and Ramar K(2019), “Reliable Object Recognition system for cloud video data based on LDP features”, *Computer Communications-Journal,Elsevier-BV*, Vol.149,pp.343-349. Impact factor:2.766,DOI <https://doi.org/10.1016/j.comcom.2019.10.027>
5. **Gomathy NayagamM et.al** (2019), “Content Based Video Classification Using SVM”, *International Journal of Recent Trends in Engineering and Research*, Spl.Issue., pp.468-477,Online ISSN:2455-1457.
6. DivyaDharshini N and **GomathyNayagam M** (2018), “Face Recognition Based on Kinship Using Distance Learning Approach”, *International Journal of Innovative Research in Computer and Communication Engineering*, Vol.6, No.2, pp.978-984.
7. **GomathyNayagam M** and Ramar K (2016), “A Design of Hybrid Workflow Model for Real Time Object Detection using Temporal Frame Differencing Algorithm: A Cloud Computing Approach”, *Asian Journal of Research in Social Sciences and Humanities*, Vol.6, No,10, pp.2099-2113,DOI: 10.5958/2249-7315.2016.01155.2
8. **GomathyNayagam M and** Ramar K (2015), “A Survey on Real Time Object Detection and Tracking Algorithms”, *International Journal of Applied Engineering Research*, Vol.10, No.9,pp.8290-8297.
9. **GomathyNayagam M** and JeyaRanjani T (2015), “An Effective Buffer Management for Interdependent Aggregated Streaming Packet”, *International Journal of Applied Engineering Research*, Vol.10, No.20,pp.16187-16193
10. Arun K and **GomathyNayagam M** (2014), “Building Applications with Social Networking API’s”, *International Journal of Advanced Networking and Applications*, Vol.5, No.5,pp.2070-2075,ISSN.0975-0290.
11. Paulrani A and**GomathyNayagam M** (2013), ,”Multi Objective QoS optimization based on multiple workflow Scheduling in Cloud Environment”, *International Journal of Innovative Research in Computer and Communication Engineering*, Vol. 1, No.2, pp.403-408, ISSN (Online):2320- 9801.
12. J. Amutharaj, **M.GomathyNayagam** and S. Radhakrishnan,(2010), “Design of Equitable Dominating Set Based Semantic Overlay Network for Balanced Content Distribution”, *MES Journal of Technology and Management*, vol 01,No.02, ISSN 0976-3724, pp.104-110. ISSN 0976-3724.
13. **GomathyNayagamet. al** (2009), "Novel Parallel MSA Algorithm implementation Approach on a Computer Cluster",*Journal of Advanced Research in Computer Engineering*, Vol.3, No.1,pp.175-178, ISSN: 0974-4320
14. **GomathyNayagamet. al** (2007), “Efficient Utilization of Computing Resources Using Highest Response Next Scheduling in Grid”, *Asian Journal of Information Technology*, Vol.6, No.5, pp. 544-547, ISSN: 1682-3915

#### 4.4 CONFERENCE PUBLICATIONS

##### International Conferences:

1. M.Gomathy Nayagam, et.al. (2021), “Web App for Plant Disease Detection using Deep Learning”, In the First International Conference on Social Work, Science and Technology (ICSST-Online) organized by the Shrimathi Devkunvar Nanlal Bhatt

Vaishnav College for Women, Chennai, India in collaboration with Global Conference Hub, Coimbatore on 29<sup>th</sup> and 30<sup>th</sup> July 2021.

2. M.Gomathy Nayagam, et.al. (2021), "People Detection and Tracking using Improved Temporal Frame Differencing and CSRT Tracking", In the Proc. of AICTE Sponsored International Conference on Trends in Electronics and Communication (IC-TELCON-2021), Thakur College of Engineering and Technology, Mumbai.
3. M.GomathyNayagam, et.al. (2019), "Automatic Traffic Rule Violator Detection System", In the Proc. of International Conference on Recent Developments in Engineering, Dhaanish Ahmed Institute of Technology, Coimbatore.
4. P.Sobiya and M.GomathyNayagam, (2014)" Dominating Set based Content Cloud Architecture for Video Distribution Services", IEEE International Conference on Green Computing Communication and Electrical Engineering (ICGCCEE),DOI:10.1109/ICGCCEE.2014.6921424, PP.1-6..
5. P.Sobiya, M.GomathyNayagam and Dr.K.Ramar,(2014)" A Survey on Video Distribution Services in Cloud Computing", IEEE International Conference on Information Communication and Embedded Systems (ICICES),DOI:10.1109/ICICES.2014.70338,ISBN:978-1-4799-3835-3,PP.1-7.
6. K.Somasundaram, S.Karthikeyan, M.GomathyNayagam and S.Radhakrishnan,(2010), "Efficient Resource Scheduler for Parallel Implementation of MSA Algorithm on Computational Grid", International Conference on Recent Trends in Information, Telecommunication and Computing (ITC 2010),Kochi, Kerala, India, pp 365-368, DOI 10.1109/ITC2010.90.
7. J.Amutharaj, M.GomathyNayagam and S.Radhakrishnan,(2010)"Design of Equitable Dominating Set Based Semantic Overlay Networks with Optimal Fast Replica Algorithm for Resilient and Balanced Content Distribution", ACEEE International Conference on Advances in Computer Science (ACS), Thiruvananthapuram, Kerala, India, pp. 1-6, DOI:02.ACS.2010.1.24.
8. J.Amutharaj, M.GomathyNayagamand S.Radhakrishnan,(2010), "Design of Dominating Set Based Semantic Overlay Networks with Optimal Fast Replica Algorithm for efficient Content Distribution", International Conference on Information and Communication Technology (ICICT-2010), Thiagarajar School of Management, Madurai, India, pp. 99-101.

#### **National Conferences:**

1. M.GomathyNayagam, et.al., "Automatic Traffic Rule Violator Detection System", In the Proc. of International Conference on Recent Developments in Engineering, Dhaanish Ahmed Institute of Technology, Coimbatore, 2019.
2. R.Monica, **M.GomathyNayagam** and Dr.K.Ramar,(2016) "A Study of Various Workflow Model with BAT Optimization Technique for Object Detection in Cloud Computing, National Conference on VISIO'16,Governement College of Engineering, Tirunelveli.
3. A.Paul Rani and M.GomathyNayagam,(2013) " MultiobjectiveQoS Guided Multiple workflow Scheduling in Cloud Environment", CSIR Sponsored 9th National Conference on Advanced Image Processing and Networking (NACIPAN'13), National Engineering College, Kovilpatti.
4. R.Divya and M.GomathyNayagam,(2012)" An Efficient Dynamic Data Placement and Replication in Grid (EDDPR),5th National Conference on Recent Trends in Information and Communication Technology (RTICT-2012), Bannari Amman Institute of Technology, Sathyamangalam.

5. M.GomathyNayagam, P.Kavitha,(2012) “Modified MSA Symmetric Key Encryption Algorithm using OPENCL”5th National Conference on Recent Trends in Information and Communication Technology, Bannari Amman Institute of Technology,Erode.
6. M.GomathyNayagam, D.EstherSoniya,(2012), “Inspired Honeybee foraging Load Balancing Algorithms in Cloud Computing”, 5th National Conference on Recent Trends in Information and Communication Technology, Bannari Amman Institute of Technology,Erode.
7. M.GomathyNayagam, P.Srividya,(2012), “Efficient Data Transmission in Data Cloud”,5th National Conference on Recent Trends in Information and Communication Technology, Bannari Amman Institute of Technology,Erode.
8. M.GomathyNayagam, A. Sona,(2012), “ GA and ACO based Scheduling in Cloud”, 5th National Conference on Recent Trends in Information and Communication Technology, Bannari Amman Institute of Technology,Erode.
9. Brammanandha Raj V, GomathyNayagam M,(2011) “QoS Aware Check pointing and Replication: Towards Efficient Fault Tolerant Grids”, ”, in the proceedings of National Conference on Emerging Trends in Engineering and Technology, Anna University of Technology, Madurai.
10. Senthilkumar.P, M.GomathyNayagam,(2011) “ A Manifold QoS Constraint Scheduling Algorithm in Cloud Computing”, in the proceedings of National Conference on Emerging Trends in Engineering and Technology, Anna University of Technology, Madurai.
11. R.Karthika and **M.GomathyNayagam,(2011)**, “Construction of Resilient Block Cipher Cryptographic Algorithm for Security Applications in Cloud”, in the proceeding of Forth National Conference on Digital Communication.
12. Karthika and **M.GomathyNayagam,(2011)** “Cloud based Resilient Block Cipher Crptographic Algorithm Construction”, the proceedings of the National Conference on Advanced Image Processing and Networking (NACIPAN’11).
13. K.Appasamy, B.Jefferson and **M.GomathyNayagam,(2011)** “ A Novel Approach of an Ant colony optimization based workflow scheduling Algorithms in Cloud Computing”,in the proceedings of National Conference in Crypt Analysis Techniques in Computer Hacking (CATCH’11), pp: 517-519.
14. M.Ramalakshmi and **M.GomathyNayagam, (2010)**, ”On the Construction of Resilient Block Cipher”, the proceedings of the National Conference LIIT 2010.
15. **M.GomathyNayagam**, K.Somasundaram,(2007), “Dynamic Secured Authentication Service in Grid”, the proceedings of First Indian Conference on Computational, Intelligenece and Information Security (ICIIS 2007),Thiyagarajar College of Engineering,Madurai.
16. **M.GomathyNayagam**, K.Somasundaram,(2006), ”Secured Data Grid Framework” ,the proceedings of National Conference on Networking (NCON2006), ArulmiguKalasalingam College of Engineering,2006.

#### 4.5 Book/Book chapter publications

1. Dr.K.Somasundaram, **M.Gomathy Nayagam**, S.Leelavathy, & R.Latha, “HUMAN COMPUTER INTERACTION”, Charulatha publications, 2016.

## 5 Funded Projects

S.No.	Title of the project	Funding Agency	Duration	Amount	Status
1	Guiding Visually Challenged within build RFID Walk Stick	Computer Society of India (CSI)	1 year (2012-2013 Academic Year)	25,000	Completed

## 6.Short term Courses / Seminars /FDP/Workshop/ConferenceAttended:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	FDP on AI & ML	ISTE in association with BNY Mellon	23.12.2020	13.03.2021
2.	Five Days FDP on Virtual Lab	IIT-PALS in association with NITK	23.08.2021	27.08.2021
3.	Five days online FDP on Quantum Computing	Muthayammal Engineering College, in association with AICTE Training and Learning Academy (ATAL)	07.12.2020	11.12.2020.
4.	Five days online FDP on Artificial Intelligence	Velalar College of Engineering and Technology, in association with AICTE Training and Learning Academy (ATAL)	24.08.2020	28.08.2020
5.	One day FDP on "Role of Faculty in Challenging Situations"	Training and Placement Cell in association with RIT-ISTE Faculty Chapter, RIT	26.07.2020	-
6.	One day online FDP on Writing a Research Paper for Scopus Journals	Industry Institute Interaction Program	13.07.2020	-
7.	Five days online FDP on Deep Learning and its application- Theory to Practice	Department of Computer Science and Engineering, SASI Institute of Technology and Engineering, Tadepalligudem, AP	06.07.2020	10.07.2020

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8.	One week online STTP on “Microsoft Azure: with Hands-on Session”	Department of Computer Science and Engineering, Lakireddy Bali Reddy College of Engineering (A), Mylavaram AP	29.05.2020	30.05.2020
9.	Five Days FDP on Deep Neural Networks and Expert Systems	Department of Electronics and Communication Engineering, P.S.R. Engineering College	25.05.2020	29.05.2020
10.	Five days online AICTE recognized FDP on Open Source Cyber Security Tools	National Institute of Technical Teachers Training and Research, Chandigarh	18.05.2020	22.05.2020
11.	One day faculty awareness programme on Outcome Based Education (OBE) and NBA Accreditation	Sihggad Institute of Technology and Science, Narhe, Pune	07.05.2020	
12.	One day online workshop for Enhancing Research Communication skills through SiceceDirect and Mendeley	International Quality Assurance Cell (IQAC) & School of Education (PMMMNTT), Dayalbagh Educational Institute, Dayalbagh, Agra in association with Elsevier	03.05.2020	
13.	Webinar on “Machine Learning with ScikitLearn”	Codegnan IT Solution OPC PVT. LTD.	01.05.2020	
14.	Three days online FDP on Moodle Learning Management System	The Department of Computer Science, Kaypeeyes College of Arts and Science, Kotagiri in association with Spoken Tutorial Project, IIT-Bombay, MHRD, of India	29.04.2020	01.05.2020

15.	Webinar on “Building API with Python”	Codegnan IT Solution OPC Pvt. Ltd	29.04.2020.	
16.	Webinar on The Art of Writing Research Papers	Chennai Institute of Technology, Chennai	29.04.2020	
17.	Five days online AICTE recognized FDP on Linux Application in Engineering Education	Department of Computer Science and Engineering, National Institute of Technical Teachers Training and Research, Chandigarh	27.04.2020	01.05.2020.
18.	Live online webinar on “How to publish a High Quality Technical Journal Paper”	IEEE	20.04.2020	
19.	One week online FDP on R Programming	Sri Krishna Arts and Science College, Coimbatore in association with IIT-Spoken Tutorial	19.04.2020	24.04.2020
20.	ICTAcademy SkyCampus Digital Knowledge Series webinar on Digital Transformation in Enterprise	ICT Acadmy of Tamilnadu	18.04.2020	
21.	ICTAcademy SkyCampus Digital Knowledge Series webinar on Design Thinking- Preparing the mind for disruption	ICT Acadmy of Tamilnadu	17.04.2020	
22.	ICTAcademy SkyCampus Digital Knowledge Series webinar on Cybersecurity Essentials	ICT Acadmy of Tamilnadu	16.04.2020	
23.	ICTAcademy SkyCampus Digital Knowledge Series webinar on Introduction to AI & ML	ICT Acadmy of Tamilnadu	15.04.2020	

24.	ICTAcademy SkyCampus Digital Knowledge Series webinar on Introduction to VmWare Cloud	ICT Academy of Tamilnadu	11.04.2020	
25.	Two week Internship Programme on Delearning on Graphic Design Techniques	Department of Information Technology, St. Peter's Institute of Higher Education and Research, Chennai	01.04.2020	16.04.2020.
26.	FDP on Cloud Computing	NPTEL-AICTE	Aug 2019 to Oct 2019 (One Week FDP Programme)	
27.	Workshop on NVIDIA GPU, KUbernetes& ML Frameworks	Ramco Institute of Technology, Rajaplayam	25 <sup>th</sup> July 2019	26 <sup>th</sup> July 2019
28.	Training Programme on Dotnet 4.6 Framework	Ramco Systems, Chennai	27 <sup>th</sup> May 2019	31 <sup>st</sup> May 2019
29.	Workshop on Design of Robotics and its Applications	MepcoSchlenk Engineering College, Sivakasi	16 <sup>th</sup> May 2019	18 <sup>th</sup> May 2019
30.	STTP on High Performance Computing for Science and Engineering	AICTE-QIP Sponsored Short Term Course- Department of Computer Science and Engineering, Thigarajar College of Engineering, Madurai	04 <sup>th</sup> February 2019	10 <sup>th</sup> February 2019
31.	FDP on Demystifying Machine Learning	National level Faculty Development Programme- Department of Computer Science and Department of Mathematics, Amrita VishwaVidyapeetham, Amirtapuri campus	10 <sup>th</sup> December 2018	14 <sup>th</sup> December 2018
32.	Workshop on Introduction to Robotics	CMR Institute of Technology, Bangaluru in association with IIT, Bombay	5 <sup>th</sup> October 2018	6 <sup>th</sup> October 2018
33.	Training Programme on Art of Counseling	Ramco Institute of Technology	19 <sup>th</sup> June 2018	21 <sup>st</sup> June 2018
34.	AWS EDUCATE DAY 2017	ICT Academy, Chennai	13 <sup>th</sup> July 2017	Nil

35.	IIPC Sponsored two days Hands on Training in OpenCV and Matlab on Image and Video Processing	Department of Electronics and Communication Engineering in association with Microelectronics Club, KLN College of Engineering, Pottapalayam, Madurai	19 <sup>th</sup> March 2016	20 <sup>th</sup> March 2016
36.	Seminar on Research towards Image Processing	Department of Computer Science and Engineering, Einstein College of Engineering, Tirunelveli	08 <sup>th</sup> June 2015	09 <sup>th</sup> June 2015
37.	Seminar on Enhancing the Skills for writing Research Proposal and Patent Application	Research Cell, Einstein College of Engineering, Tirunelveli	27 <sup>th</sup> June 2014	-
38.	workshop on Network Simulation (NS-2)	Department of computer science and engineering and CSI student chapter of Kalasalingam University.	24 <sup>th</sup> September 2011	25 <sup>th</sup> September 2011.
39.	Workshop on Hardware Identification, Installation & Troubleshooting, OS Installation and Network Troubleshooting	Dept. of CSE, Kalasalingam University that is jointly organized by HCI career Development Center, Chennai	17 <sup>th</sup> September 2011	-
40.	CISCO Networking Academy Retooling Workshop	CISCO Venue: Coimbatore	29 <sup>th</sup> July 2011	-
41.	seminar on Skilling Students for remunerative careers in IP infrastructure management- Opportunities in managing Wireless LAN networks	Kalasalingam University that is jointly organized by Fluke Networks and TIFAC-CORE in Network Engineering	08 <sup>th</sup> July 2011	-
42.	Training program on SkillEdge- OOPS and C+	ICT Academy of Tamil Nadu	13 <sup>th</sup> June 2011	15 <sup>th</sup> June 2011
43.	EMC Academic Summit 2011	SRM University, Chennai	4 <sup>th</sup> Feb 2011	5 <sup>th</sup> Feb 2011

44.	CISCO SAARC Academy Meet 2010	CISCO Venue: Bangalore	26 <sup>th</sup> March 2010	-
45.	Faculty Awareness Camp on Entrepreneurship	Department of Computer Science and Engineering in association with Entrepreneurship Development Cell	16 <sup>th</sup> July 2008	18 <sup>th</sup> July 2008
46.	FDP on Software Quality	NASSCOM at Kalasalingam University	1 <sup>st</sup> August 2008	2 <sup>nd</sup> August 2008
47.	CISCO SAARC Academy Meet 2008	CISCO Venue: Bangalore	28 <sup>th</sup> March 2008	-
48.	Workshop on Free and Open Software	Department of Information Technology, Kalasalingam University organized by IBM	16 <sup>th</sup> August 2007	17 <sup>th</sup> August 2007

#### 7. Short term Courses / Seminars /FDP/Workshop/Conference organized:

Sl.No	Title of the event	Organized by	Date	
			From	To
1.	Guest Lecture (Online) on Google App Engine	IE(I)-CSE and Department of Computer Science and Engineering, RIT	21.11.2021	-
2.	Guest Lecture on Computer Networks	RIT-CSI	12.11.21	-
3.	One Day Webinar on Challenges in the design of Unmanned Vehicle	RIT-AI Research Group, RIT	09.10.2021	-
4.	Webinar on AI and ML in Industry 4.0	RIT-AI	02.10.21	-
5.	Webinar on Wings to Career Aspirations	RIT-Clustra, Department of Computer Science and Engineering, RIT	16.08.2021	-
6.	Two days workshop on Capstone Project: Deep Learning	The Department of Computer Science and Engineering, RIT in association with IE(I)	18.01.2021	19.01.2021
7.	Five days FDP on Demystifying Machine Learning algorithm using Python	RIT AI Research Cell, Rit	28.12.2020	02.01.2021

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8.	Webinar on Profile Carving	The Department of Computer Science and Engineering, RIT	20.12.2020	-
9.	Webinar on SAP in AWS Cloud	The Department of Computer Science and Engineering, RIT	25.09.2020	-
10.	Webinar Series on Future IT-4.0 Topics: 1. Software Development with GOLang 2. Cloud Computing Tool: Cloud Sim 3. Robotics- An Implementation Approach 4. Network Protocol Analyzer.	The Department of Computer Science Engineering in association with CSI students' Chapter and ISTE Faculty Chapter, Ramco Institute of Technology.	31.05.2020	05.06.2020 (Except 03.06.2020)
11.	Webinar on Latest trends in Networking Technology	The Department of Computer Science Engineering in association with CSI students' Chapter and ISTE Faculty Chapter, Ramco Institute of Technology.	22.05.2020	
12.	Two day Workshop on Smart phone service training	Ramco Institute of Technology in association with New Technologies, Coimbatore	04.01.2019	05.01.2019
13.	Four day workshop on AngularJS.	Ramco Institute of Technology	Four Days- (21,22 <sup>nd</sup> July 2018 & 11&18 <sup>th</sup> August 2018)	
14.	One day Pre-workshop on Machine Learning and AI for HCL Hackathon.	Ramco Institute of Technology in association with HCL & GUVI	10.08.2018	-
15.	CSI sponsored national workshop on "The Art of Exploiting SQL injection – I (Ethical Hacking)	Department of Computer Science and Engineering, Einstein College of Engineering, Tirunelveli-12	25 <sup>th</sup> August 2014	26 <sup>th</sup> August 2014

16.	CSI sponsored national workshop on A Practical Approach on Cloud Computing Service – IaaS	CSI sponsored national workshop on Advanced Cloud Computing on Research Project	14 <sup>th</sup> February 2014	15 <sup>th</sup> February 2014
17.	Workshop on “Cloud Computing (Euclayptus Tool)”	Department of Computer Science and Engineering, Einstein College of Engineering	28 <sup>th</sup> September 2013	29 <sup>th</sup> September 2013
18.	CSI sponsored workshop on “Cloud Computing”	Department of Computer Science and Engineering, Einstein College of Engineering	06 <sup>th</sup> February 2013	-
19.	Workshop on “Network Simulation (NS-2)”	Department of computer science and engineering and CSI student chapter of Kalasalingam University	24 <sup>th</sup> September 2011	25 <sup>th</sup> September 2011.
20.	Microsoft DreamSpark Yatra	Kalasalingam University	February 2011.	
21.	Microsoft DreamSpark Yatra	Kalasalingam University	19 <sup>th</sup> April 2010.	
22.	ISTE sponsored Short Term Training Programme on “Computational Challenges in Molecular Biology”	Kalasalingam University	26 <sup>th</sup> May 2009	30 <sup>th</sup> May 2009

### 8. Online Courses

sno	Course title	University	Date
1.	Introduction to Cloud Computing	IBM	11 <sup>th</sup> July 2021
2.	A Machine Learning with Python: A Practical Introduction	IBM	30 <sup>th</sup> August 2020.
3.	Data Science Tools	IBM	29 <sup>th</sup> August 2020.
4.	Analyzing Data with Python	IBM	29 <sup>th</sup> August 2020.
5.	Introduction to Linear	HarvardX	27 <sup>th</sup> August

	Model and Matrix Algebra		2020.
6.	Visualizing Data with Python	IBM	25 <sup>th</sup> August 2020.
7.	Python Basics for Data Science	IBM	24 <sup>th</sup> August 2020.
8.	Data Science and Machine Learning Capstone Project	IBM	24 <sup>th</sup> August 2020
9.	Data Science: Linear Regression	HarvardX	23 <sup>rd</sup> August 2020
10.	Introduction to Computational Thinking and Data Science	Massachusetts Institute of Technology. (MITX)	20 <sup>th</sup> December 2019
11.	Cloud Computing	NPTEL-AICTE	August 2019 to Oct 2019
12.	Calculus 1C: Coordinate System and Infinite Series	Massachusetts Institute of Technology. (MITX)	12 <sup>th</sup> May 2019
13.	Calculus 1A: Differentiation	Massachusetts Institute of Technology. (MITX)	23 <sup>rd</sup> November 2018

### 9. Membership in Professional societies

- Life member in IE(I) (M – 147190-7)
- Life member in ISTE (LM 59130), NewDelhi
- Life member in CSI (00175276), Mumbai
- Life member in IAENG (Member No: 103896)
- Life Member in IACSIT (Member No: 80341486), Singapore

### 10. Guest Lecture Delivered

- Delivered the Guest Lecture on “Universal Human Values- Relationship in Family and Trust”, in Student Induction Programme-2021-2022 to the First Year students of Ramco Institute of Technology, Rajapalayam on 22.10.2021
- Delivered the guest Lecture on “ Model development using Linear and Multi-Linear Regression” in the short term training program on Predictive and user-behavior analysis using Python organized by IE(I)-CSE student chapter, the Department of Computer Science and Engineering in association with IEI Madurai Local Centre on 26.02.2021.
- Delivered the Guest Lecture on “House Price Prediction using Decision Tree” in two days workshop on Machine Learning organized by the Department of Electronics and Communication Engineering, RIT on 12.01.2021.
- Delivered the Guest Lecture on “ Decision Tree Regression Model with hands on in Google Co-lab for selling price prediction of House” in five days FDP on demystifying Machine Learning using python organized by RIT-AI on 30.12.2020.

**Updated as on 07.01.2022**

- Delivered the Guest Lecture on “ Multiple Linear regression model Hands on in Google co-lab for Weather prediction for exploring Aerial Bombing Operations” in five days FDP on demystifying Machine Learning using python organized by RIT-AI on 29.12.2020.
- Delivered the Guest Lecture on “Introduction to AI and Overview” in three days webinar on Artificial Intelligence for Beginners organized by RIT-ARC in association with RIT-ISTE Students chapter on 15.07.2020.
- Delivered the Guest Lecture on “Unsupervised Learning- Hands on K-means Clustering”, in FDP on Machine Learning using Python”, organized by the Department of Computer Science and Engineering & RIT-AI Research cell in association with RIT-ISTE Faculty Chapter of Ramco Institute of Technology on 12.07.2020.
- Delivered the Guest Lecture on “Universal Human Values- Relationship in Family and Trust”, in Student Induction Programme-2020-2021 to the First Year students of Ramco Institute of Technology, Rajapalayam on 06.11.2020.
- Delivered the Guest Lecuture on “Cloud Computing Tool:CloudSim” in Webinar Series Future IT-4.0 organized by the Department of Computer Science and Engineering in association with RIT-CSI Students’ chapter and RIT-ISTE Faculty Chapter, Ramco Instiute of Technology on 01.06.2020 and 02.06.2020.
- Delivered the Guest Lecture on “Cloud Computing” to B.E CSE students of Muthyammal Engineering College, Rasipuram on 27<sup>th</sup> September 2019.
- Delivered the Guest Lecture on “Computer Networks” to B.Tech IT students of Cape Institute of Technology, Angugramam on 14<sup>th</sup> October 2017.
- Delivered technical talk on “Computer Networks- Recent Trends and Career Opportunities” to B.Tech ISC students of Rajarejeswari College of Engineering, Bangalore, Nov 2017
- Delivered the Guest Lecture on “Networking Basics and Cabling” to MCA Students of Sri Ramakrishna Engineering College, Coimbatore, Dec 2010.
- Delivered the Guest Lecture on “Awareness on Networking Technologies and CCNA Certification” to B.E Computer Science and Engineering Students of AnnaiVallankanni College of Engineering, Kanyakumari, January 2011.
- Delivered the Guest Lecture on “ Grid Computing and Various tool kits” in Faculty Development Programme conducted by Sun College of Engineering and Technolog,Sun Nagar, Erachakulam, June 2011

- Delivered the Guest Lecture on " Networking Essentials and CCNA Awareness" to B.E and M.E students of Francis Xavier College of Engineering, Tirunelveli, 7th March 2012.
- Delivered Guest Lecture on " Networking Technologies and Cabling, conducted by Department of Information Technology, Sri Ramakrishna Engineering College, Coimbatore.
- Delivered the invited talk in workshop on "Network Simulator-2" conducted by Jeya Engineering College, Chennai, 22<sup>nd</sup> March 2012.
- Delivered the invited talk in workshop on "Grid Computing" conducted by Department of Information Technology, GKM college of Engineering and Technology, Chennai, 26<sup>th</sup> March 2012.
- Delivered the Guest lecture on "Cloud Tools" in one day methodology workshop conducted by Department of Information Technology, Kalasalingam University, AnandNaga, Krishnankoil on 10.10.2012.
- Delivered the Guest Lecture on "Cloud Computing and NS2 Simulation", in two day workshop conducted by department of Computer Science and Engineering, PSR Engineering College, Sivakasi on 04 and 05 October 2013.
- Delivered the Guest Lecture on "Cloud Computing: Cloud sim tool", conducted by Department of Information Technology, PSR Engineering College.

#### **11. Awards and Achievements**

- Reviewer in the Journal of Ambient Intelligent and Humanized Computing (Springer)
- Reviewer in the Journal of Intelligent Automation and Soft Computing
- Reviewer in the Journal of Big Data (Springer)
- Reviewer in the Journal of Microprocessors and Microsystems(Elsevier)
- Reviewer in the Journal of Medical Imaging and Health Informatics
- Reviewer in the Journal of Wireless Networks (WINE) (Springer)
- Reviewer in the Journal of Soft Computing (Springer)
- Reviewer in the Journal of Internet Technology