

E.G.S. Pillay Engineering College (Autonomous), Nagapattinam

Department of Information Technology

Research and Development

(2018 onwards)

Ph.D Awarded Faculty Members:

S.No	Name of the Faculty	Academic Year
01	Dr.K. Manikanda Kumaran	2020-21
02	Dr. S. Manikandan	2020-21
03	Dr.K.Raju	2021-22

Ph.D Pursuing Faculty Members:

Sl. No	Name	University	Status
1	Mrs. K. Nagalakshmi	Vel Tech University	Synopsis Submitted
2	Mr. V.M. Suresh	Anna University	Confirmation Completed
3	Mrs. R.G. Gokila	Anna University	Confirmation Completed
4	Mr. R. Anand Babu	Anna University	Confirmation Completed
5	Mrs. R. Lavanya	Anna University	Thesis Submitted

Cumulative Publications (2018-2022) :

S. No	Name	SCIE	Scopus	Other Referred Journal
1	Dr. P. Vijayalakshmi	-	-	2
2	Dr. A.S. Anankath	3	4	1
3	Dr. S. Manikandan	4	5	1
4	Dr. K. Manikanda Kumaran	2	2	1
5	Mrs. K. Nagalakshmi	-	1	1
6	Mr. V.M. Suresh	-	-	2
7	Mrs. R.G. Gokila	-	-	1
8	Mr. R. Anand Babu	-	1	1
9	Mrs. R. Lavanya	1	2	1
10	Mr. K. Raju	1	1	1

Research Paper Publications

SCI/SCI-E Publication

S.No	Paper Title	Journal Name	Authors Name	Volume Number, Issue No and Page No	Online Link
1	Evaluation of Students' Performance in Educational Sciences and Prediction of Future Development using TensorFlow	International Journal of Engineering Education	S.Manikandan M.Chinnadurai	Vol. 36, No. 6, pp. 1–8, 2020, 0949-149X/91, TEMPUS Publications	https://www.ijee.ie/
2	Cloud-based robotic system for crowd control in smart cities using hybrid intelligent generic algorithm	Journal of Ambient Intelligence and Humanized Computing, Springer	K. Manikanda Kumaran & M. Chinnadurai	https://doi.org/10.1007/s12652-020-01758-w	https://link.springer.com/article/10.1007/s12652-020-01758-w
3	A Competent Ad-hoc Sensor Routing Protocol for Energy Efficiency in Mobile Wireless Sensor Networks	<i>Wireless Personal Communications</i> , Springer	K. Manikanda Kumaran & M. Chinnadurai	https://doi.org/10.1007/s11277-020-07741-0	https://link.springer.com/article/10.1007/s11277-020-07741-0
4	Effective Energy Adaptive and Consumption in Wireless Sensor Network Using Distributed Source Coding and Sampling Techniques	<i>Wireless Personal Communications</i> , Springer	Manikandan, S, Chinnadurai, M,	https://doi.org/10.1007/s11277-021-08081-3	https://doi.org/10.1007/s11277-021-08081-3
5	<u>An Identity-Based Secure and Optimal Authentication Scheme for the Cloud Computing Environment</u>	Computers, Materials & Continua	K. Raju, M. Chinnadurai	<i>Vol.69, No.1, 2021, pp.1057-1072,</i>	doi:10.32604/cmc.2021.016068
6	An IoT based Green Home Architecture for Green Score Calculation towards Smart Sustainable Cities	KSII Transactions on Internet and Information Systems	K. Manikanda Kumaran, . Chinnadurai, S. Manikandan, S. Palani Murugan, E. Elakiya	VOL. 15, NO. 7, Jul. 2021	https://doi.org/10.3837/tiis.2021.07.000

7	Tour Planning Design for Mobile Robots Using Pruned Adaptive Resonance Theory Networks	Computers, Materials & Continua	Palani Murugan, Chinnadurai, M., Manikandan, S.	70(1), 181–194, doi:10.32604/cmc.2022.016152	doi:10.32604/cmc.2022.016152
8	User Interaction Behavior Analysis for Insider Attack Detecting with Deep Belief Neural Network in Cloud Computing	Computer Systems Science and Engineering	A.S.Anakath R.Kannadasan	Accepted DOI:10.32604/csse.2021.019940 2021	---
9	Computationally efficient and secure anonymous authentication scheme for cloud users	Personal and Ubiquitous Computing	A.S.Anakath S.Rajakumar	https://doi.org/10.1007/s00779-021-01566-9 2021	https://doi.org/10.1007/s00779-021-01566-9
10	A novel RSA algorithm for secured key transmission in a centralized cloud environment	International journal of Communication System	S. Ambika, S.Rajakumar A.S.Anakath	Vol 33, PP 1-9, 2020.	https://onlinelibrary.wiley.com/doi/abs/10.1002/dac.4280
11	Virtualized Load Balancer for Hybrid Cloud Using Genetic Algorithm	<i>Intelligent Automation & Soft Computing</i>	Manikandan, S, Chinnadurai, M,	32(3), 1459–1466	doi:10.32604/iasc.2022.022527
12	Intrusion Detection System for Energy Efficient Cluster Based Vehicular Adhoc Networks	<i>Intelligent Automation & Soft Computing</i>	R.Lavanya Kannan.S	32(1), 323-337	DOI:10.32604/iasc.2022.021467

Scopus:

S.No	Paper Title	Journal Name	Authors Name	Volume Number, Issue No and Page No	Online Link
1	Intelligent and Deep Learning Collaborative method for E-Learning Educational Platform using TensorFlow	Turkish Journal of Computer and Mathematics Education	Manikandan S	Vol.12 No.10 (2021), E-ISSN: 1309-4653, 2669-2676	https://turcomat.org/index.php/turkbilmat/article/view/4881/4104
2	Computation of Automatic Logistic Handling Using Artificial Intelligence in Data Mart Applications	Annals of the Romanian Society for Cell Biology	Manikandan S	25(6), 9422–9426, E-ISSN: 1583-6258	https://www.annalsofrscb.ro/index.php/journal/article/view/7233
3	Prediction of Human Motion Detection in Video Surveillance Environment Using Tensor Flow	International Journal of Advanced Science and Technology	Manikandan S, Chinnadurai M, Thiruvenkatasuresh M.P, Sivakumar M	Vol. 29 No. 05 (2020)	http://sersc.org/journals/index.php/IJAST/article/view/11386
4	Real Time Traffic Flow Prediction and Intelligent Traffic Control from Remote Location for Large-Scale Heterogeneous Networking using TensorFlow	International Journal of Future Generation Communication and Networking	S.Manikandan, M.Chinnadurai, D.Maria Manuel Vianny and D.Sivabalaselvamani	ISSN: 2233-7857, Vol.13, No.1, (2020), pp.1006-1012	http://sersc.org/journals/index.php/IJFGCN/article/view/7557/4410
5	Dynamic Cued Click Point Algorithm to Provide Cryptographic Password Authentication	International Journal of Pure and Applied Mathematics	P. Ashok,R.R. Prianka, R. Lavanya, R.G. Gokila	Volume 117 No. 21 2017, 961-965	https://acadpubl.eu/jsi/2017-117-20-22/articles/21/85.pdf

6	A Comparison survey paper on Block chain technology, Bit coin and Ethereum	International Journal of Psychosocial Rehabilitation	Ashok. P, Lavanya. R , Vidhya V, Karthick. K, Mohammed Sanjarkhan	Volume 24, Issue 6, page no 6448-6452,2020	https://www.psychosocial.com/article/PR260649/18414/
7	Evolution of Nature-inspired Intelligent Robots – A Review	International Journal of Computer Science and Information Security (IJCSIS)	V. Sathiya, Dr. M. Chinnadurai, R. Anand Babu , K. Nagalakshmi	Vol. 15, No. 10, October 2017 pp. 257-263	https://sites.google.com/site/ijcsis/vol-15-no-10-oct-2017
8	Criticality-aware partitioned task scheduling with limited migratory on multicore platforms	Journal of Industrial Pollution Control	Nagalakshmi, K Gomathi, N	33(2)(2017) pp 1745-1753	https://www.icontrolpollution.com/peer-reviewed/criticalityaware-partitioned-task-scheduling-with-limitednmigratory-on-multicore-platforms-86777.html
9	Criticality-cognizant Clustering-based Task Scheduling on Multicore Processors in the Avionics Domain	International Journal of Computational Intelligence Systems	Nagalakshmi, K. Gomathi, N	Volume 11, Issue 1 , 2018, Pages 219 - 237	https://doi.org/10.2991/ijcis.11.1.17
10	Recognition of Font and Tamil Letter in Images using Deep Learning	Applied Computer Science	Manikandan Sridharan , Delphin Carolina Rani Arulanandam, Rajeswari K Chinnasamy, Suma Thimmanna, Sivabalaselvamani Dhandapani	vol. 17, no. 2, pp. 90–99, 2021,	doi: 10.23743/acs-2021-15
11	Creating a Novel Consensus Algorithm for Distributed Computing use Cases	International Journal of Innovative Technology and Exploring Engineering	R.Kannadasan, A.S.Anakath	Volume-9 Issue-1S, November 2019.	https://www.ijtee.org/wp-content/uploads/papers/v9i1S/A10591191S19.pdf

Google Scholar Citations Details:

S. No	Name	Citations	h-Index	i10-Index
1	Dr. P. Vijayalakshmi	4	1	-
2	Dr. A.S. Anankath	11	2	-
3	Dr. S. Manikandan	97	5	4
4	Dr. K. Manikanda Kumaran	24	3	1
5	Mrs. K. Nagalakshmi	12	1	-
6	Mr. V.M. Suresh	45	2	2
7	Mrs. R.G. Gokila	6	1	-
8	Mr. R. Anand Babu	2	1	-
9	Mrs. R. Lavanya	12	2	-
10	Mr. K. Raju	11	2	-

Scopus Publication and Citation Details:

S.No	Name of the Faculty	Number of Documents	Citation by Documents	h-Index
1	Dr.S.Manikandan	9	19	3
2	Dr.A.S.Anakath	5	16	2
3	Dr.K.Manikanda Kumaran	2	10	2
4	Ms.K.Nagalakshmi	2	2	1
5	Mr.V.M.Suesh	2	18	1
6	Mr.K.Raju	1	-	-
7	Ms.R.Lavanya	1	-	-

Book Chapter:

S.No	Chapter Title`	Chapter Name	Authors Name	ISBN No	Online Link
1	Enterprise Java Beans (EJB) Running Procedure	International Society for Green, Sustainable Engineering and Management, National Board of Quality Promotion, QCI, Govt of India	S.Manikandan	978-81-930406-6-9	Hard Copy
2	APPLICATIONS OF IT AND ITeS IN TODAY'S WORLD	Technical Pages, IEI - TLC - NEWS, In-House News Letter of Institution of Engineers (India), Tiruchirappalli Local Centre,	S.Manikandan	2018/01-02	https://drive.google.com/file/d/1k_xWIHX-bdRji6KydHjSURUml9WIBILS/view
3	Deep Learning in Artificial Intelligence	IEEE India Council	S.Manikandan M.Chinnadurai	Vol.13, No.2, July'2018	https://site.ieee.org/indiacouncil/newsletter/
4	Review of Momo attack in WhatsApp	IEEE India Council	S.Manikandan	Vol.13, No.3, September'2018	https://site.ieee.org/indiacouncil/newsletter/
5	Driving Artificial Intelligence into IT and ITES	The Institution of Engineers (IEI) Annual Technical Volume of Computer Engineering Division Board	S.Manikandan M.Chinnadurai	978-81-938404-4-3, Vol.2, 2018	https://drive.google.com/file/d/14y412BjVthMDY3I9TF7hnHFHgsVZQxiy/view
6	Artificial Intelligence in Education Using Gaming and Automatization with Courses and Outcomes Mapping	Empowering Artificial intelligence Through Machine Learning Apple Academic Press, CRC Taylor and Francis Book	S.Manikandan M.Chinnadurai	9781771889308	https://www.appleacademicpress.com/empowering-artificial-intelligence-through-machine-learning-/9781771889308?fbclid=IwAR2rKEx2_p0cUqdVkjKwFctmEE2cgnSt1KSFCCZ4XdolbBJGaNX2srKTPg

International Participation:

1. **S.Manikandan**, Presented paper on "Intelligent Genetic Algorithm Usage and Implementation", International Seminar on Innovations in Engineering and Sciences at Multimedia University, Melaka Campus, Malaysia, 22/06/2018
2. **S.Manikandan**, Presented paper on "Measuring Life Time of Electro Magnetic Computation in Wireless Sensor Network using NP-Complete Optimization" at International Congress on Super Computing 2018 (ICSC 2018) in Association of Scientists Developers and Faculties (ASDF) held at Holiday Inn Bangkok, Silom, Kindom of Thailand dated from 18-October-2018 to 20-October-2018
3. **S.Manikandan**, Invited Talk, 8th International Symposium on Innovative Multidisciplinary Research in Green Development at South Eastern University of Sri Lanka on 17th& 18th December'2018 on the topic of "Intelligent Genetic Algorithm Usage and Implementation in Library Dataset using Amazon Red Shift"
4. **K. Raju**, Invited Talk, 8th International Symposium on Innovative Multidisciplinary Research in Green Development at South Eastern University of Sri Lanka on 17th& 18th December'2018 on the topic of "Secure Deduplication with Identity based broadcast Encryption technique "
5. **S.Manikandan** and Dr.M.Chinnadurai, "A SURVEY ON INTELLIGENT SYSTEM IN IT AND ITES", International Conference on Emerging Trends in Engineering , Science and Technology, Bangkok, Thailand at the conference on 20th Jan - 21st Jan'2020, International Institute of Education, Research and Development, pp.51-53 (proceedings)
6. **K.Manikanda Kumaran** and Dr.M.Chinnadurai, "Improved Consistency and Efficiency in WSN", International Conference on Emerging Trends in Engineering , Science and Technology, Bangkok, Thailand at the conference on 20th Jan - 21st Jan'2020, International Institute of Education, Research and Development, pp.47-50 (proceedings)
7. **S.Manikandan**, "Block Chain Technology: Myths, Ethics and Current Trends in IT and ITES", 9th Annual Research Session - 2020 on 25/11/2020, Integrated Applied Sciences and Smart Technologies for Sustainable Development at South Eastern University of Sri Lanka ([Link](#))
8. R. Kannadasan, R. S. Kumar, K. S. Devineni, N. Prabakaran, **A. S. Anakath** and A. Jayanthiladevi, "Vehicle Navigation Protocol in Real-Time Fleet Management," 2020 International Conference on Emerging Smart Computing and Informatics (ESCI), 2020, pp. 248-251, doi:10.1109/ESCI48226.2020.9167608.
9. **A.S.Anakath**, R. Kannadasan, S.Rajakumar and S.Ambika, "Trust Information Management System for Cloud Service Providers", Proceedings - 9th South Eastern University International Arts Research Symposium – 2020, Faculty of Arts and Culture, South Eastern University of Sri Lanka, 19th January 2021, ISBN: 978-955-627-253-6.

Patent (Published)

1. End to End Food Safety and Quality Control System - Application Number- 202041036571, Journal Number- 37/2020, Journal Date- 11/09/2020 - Published - [Link](#)
2. A novel Multiple-Access Edge Computing technique for ultra-reliable low-latency communication (URLLC), and massive Internet of Things (IoT) in 5G networks - 202041014796 - Published - [Link](#)
3. Automated vegetation mapping approach of crops through satellite image fusion and convolution neural networks-based classification - 202041014696 - Published - [Link](#)
4. Solar Lantern Powered Solar Chulla - Docket No: CBR No-38473, 201741044998, 14-12-2017 ([Link](#)) ([Details](#))
5. PORTABLE EGG QUALITY ASSESSMENT AND MONITORING SYSTEM USING IOT - Application Number: 202041047668, 13/11/2020 ([Details](#))

6. IOT Based Real Physico-Chemical Parameters Monitoring System in Mangrove Zone, Application No. 202141031081 A, The Patent Office Journal No. 29/2021 Dated 16/07/2021
7. AGRY-DRONE: A DYNAMIC WEB BASED DRONE DRIVEN CROP YIELD ESTIMATION MODEL FOR AGRICULTURE FARMS - Application Number - 202241001415, 11/01/2022
8. GREEN SCORE CALCULATION APPARATUS AND METHODS TOWARDS SMART SUSTAINABLE CITIES - Application Number: 202141032008, 30/07/2021
9. INTELLIGENT VIRTUAL REALITY KIT TO SUCCEED IN FACE INTERVIEWS - Application Number - 202241010100, 25/02/2022