



**DR. K. MAHESH**  
Professor and Head(i/c)

### Contact

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### Academic Qualifications

Degree	Institution	Year	Branch	Class
Ph.D.	Alagappa University	2014	Computer Science	Awarded
M.Phil.	Bharathidasan University	2004	Computer Science	First
M.C. A	Madurai Kamaraj University	1988	Computer Applications	First
B. Sc	Madurai Kamaraj University	1985	Chemistry	First

## Teaching Experience

Total Teaching Experience : 34 Years

Position	Institution	Duration
Professor and Head (i/c)	Alagappa University	04.01.2024 to till date
Professor	Alagappa University	10.12.2014 to till date
Associate Professor	Alagappa University	27.07.2006 to 09.12.2014
Lecturer (Selection Grade)	Alagappa University	27.07.2003 to 26.07.2006
Lecturer (Senior Scale)	Alagappa University	27.07.1998 to 26.07.2003
Lecturer	Alagappa University	10.11.1990 to 26.07.1998
Teaching Assistant	Alagappa University	20.10.1989 to 09.11.1990

## Research Experience

Total Research Experience :10 Years

Position	Institution / University	Duration
Ph.D. Guide	Alagappa University	10.12.2014 to till date

### Academic and Additional Responsibilities

S. No	Position	UniversityBodies	Period	
			From	To
1	Head i/c	Department of Computational Logistics	04.01.2024	Till Date
2	Director	Science Campus, Alagappa University	25.05.2023	Till Date
3	Academic Counsellor	MCA DDE, Alagappa University	26.04.2022	Till Date
4	Director	Data Management Center, Alagappa University	17.05.2021	24.05.2023
5	Warden	AUCPE Women's Hostel	16.03.2021	06.02.2022
6	Chief Warden	Alagappa University Hostels	22.02.2021	25.05.2023
7	Warden	PG Men's Hostel	09.07.2019	21.02.2021

### Areas of Research

- Video Processing
- Image Processing
- Cloud Computing

### Research Supervision/Guidance

Program of Study		Completed	Ongoing
Research	PDF	-	-
	Ph.D.	06	04
	M.Phil.	46	-
Project	PG	236	17
	UG/ Others	-	-

## Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/Chapters/Monographs/Manuals
117	53	03	27	04

Cumulative Impact Factor(asperJCR) : 3.06

h-index : 09

i10 index : 07

Total Citations : 310

## Publications

Thesis Evaluated : 26

Viva-voce Examiner : 20

## Funded Research Projects

### Ongoing Projects:

S. No	Agency	Period		Project Title	Budget (Rs. in lakhs)
		From	To		
1.	RUSA 2.0 EIR PHASE II	01-12- 2023	29-02- 2024	3D Video Stabilization Using Weight Space Based Optimization	0.50

**Completed Projects:**

S. No	Agency	Period		ProjectTitle	Budget (Rs. in lakhs)
		From	To		
1	NTRO, New Delhi	July 2007	Aug 2012	Collaborative Directed Basic Research in Smart and Secure Environment	100

**Distinctive Achievements / Awards**

- Certificate of Commemoration for completing 25 years of unblemished service
- Received Letter of Appreciation Certificate for Cultural Club Coordinator in Alagappa University
- Received Letter of Appreciation Certificate for Chief Warden in Alagappa University.

**Events organized in leading roles**

Number of Seminars /Conferences /Workshops/ Events organized:

Position	Programme	Duration	Institution
Organizing Committee Member	One-day National Seminar on Technology Trends in Digital World,	April 11, 2022	Department of Computer Applications, Alagappa University, Karaikudi
Co-convener and Advisory Committee Member	National Conference on Recent Research Trends in Computer Science (NCRRTCS' 19)	November 4, 2019	Department of Computer Applications, Alagappa University, Karaikudi
Chair	International Conference on Computational Sciences	October 23-24, 2019	Department of Computer Science, Alagappa University, Karaikudi
Co-Convener	National Conference on Cybersecurity (NCCS-2018)	January 25 ,2018	Department of Computer Science Alagappa University, Karaikudi

Co-Ordinator	National Seminar on “Recent Research Trends and Developments in Computer Science	March 8-9, 2018	Department of Computer Applications, Alagappa University, Karaikudi
Co-Convener and Chair	International Conference on Information, Communication and Digital Security (ICICDS’18)	March 21-22 ,2018	Department of Computer Applications, Alagappa University, Karaikudi
Chair	National Conference on Emerging Trends in Computing 2017	March 13-14, 2017	Department of Computer Science and Engineering, Alagappa University
Chair	International conference on Advancements in Computing Resources	February 15-16, 2017	Skill Development Centre, Alagappa University
Chair	International Conference on Mathematical Modeling and Computational Methods in Science and Engineering	February 20-22, 2017	Ramaanujam Centre for Higher Mathematics and Department of Computer Mathematics, Alagappa University
Chair	International Conference on Innovations in Computer Science and Technology (ICICST 2016)	April 4 - 5, 2016	Department of Computer Science and Engineering, Alagappa University
Chair	National conference on Emerging Trends in Software Development (NCETSD-2016)	March 24, 2016	Alagappa Institute of Skill Development, Alagappa University

Chair	National conference on Recent Advancements in Software Development (NCRASD-2015)	March 23, 2015	Skill Development Centre, Alagappa University
Chair	National Conference on Mining, Internetworking and Data Security	March 27-28, 2014	Department of Computer Science and Engineering, Alagappa University

## Events Participated

Number of Conferences/Seminars/Workshops	: 55
Number of Seminars organized	: 03
Number of Events organized	: 05
Number of Invited/ Special Lectures delivered	: 10

## Membership

### Editorial Board

1. Reviewer, ICTACT Journal on Image and Video Processing (IJIVP) Publisher: ICT Academy of Tamil Nadu.
2. Reviewer, International Journal of Advanced Research Trends in Engineering and Technology (IJARTET) Publisher: ACE Publishers.
3. Reviewer, Journal of King Saud University - Computer and Information Sciences, SCIE Journal, Publisher: Elsevier.
4. Reviewer, Security and Privacy, ESCI Journal, Publisher: Wiley

### Advisory Board

Year/Period	Name of the BoS/Administrative Committee / Academic Committee	Role
May 2023 to till date	M.Sc (CS & IT)	Member

March 2023 to till	Diploma Programme in Information Security, Post-Graduate Diploma Programme in Cyber Security	Member
Aug 2021 to till date	Post Graduate Diploma in Data Science	Member
Dec 2016 to till date	MCA	Member
May 2016 to till date	BCA	Member

#### Academic Bodies in Other Institutes / Universities

Year/Period	Name of the BoS/Administrative Committee / Academic Committee	Role
June 2023 to till date	Commerce(PG)	BOS Member
April 2022 to till date	M.Sc (Information Technology)	BOS Member

#### Ph.D. Thesis Guided

- No. of PhD Thesis evaluated : 06
- No. of PhD Public Viva-voce Examination conducted : 06

S. No	Name of the Scholar	Title of the Thesis	Year of Completion
1	Dr.M. Ramesh	Hybrid approach for Sports Video Classification Using Key-Frame Extraction and Optimization methods	2024
2	Dr.P. Karthick	Efficient Video Compression using GAN	2023



		and CNN Techniques	
3	Dr.N. Gayathri	Efficient Feature and Classification Techniques for Video Indexing and Retrieval	2023
4	Dr.N. Geetha	Secure Video Transmission Framework using Symmetric Encryption and Meta-Heuristic based Optimal Key Generation	2023
5	Dr.K. Rajalakshmi	An Enhanced Video Steganographic Techniques for Embedding Data in Video Security	2021
6	Dr.D. Mohanapriya	An Efficient Human Tracking and Activity Recognition System in Video Surveillance	2020

### List of Research Articles / Recent Publications

S. No	Authors/ Title of the paper/ Journal	Impact Factor
1	S, Muthakshi., and <b>K. Mahesh</b> 2024. SECURE AND ENERGY-EFFICIENT TASK SCHEDULING IN CLOUD CONTAINER USING VMD-AOA AND ECC-KDF. Malaysian Journal of Computer Science. 37, 1 (Jan. 2024), 48–70.	0.436
2	Muthakshi, S., <b>K. Mahesh</b> (2023). Container Division and Optimization (CDO) Algorithm for Secured Job Processing in Cloud. In: Singh, Y., Singh, P.K., Kolekar, M.H., Kar, A.K., Gonçalves, P.J.S. (eds) Proceedings of International Conference on Recent Innovations in Computing. Lecture Notes in Electrical Engineering, vol 1001. Springer, Singapore.	0.37

3	Muthakshi S and <b>K. Mahesh</b> 2023. Long-Term Container Allocation via Optimized Task Scheduling Through Deep Learning (OTS-DL) And High-Level Security. KSII Transactions on Internet and Information Systems, 17, 4, (2023), 1258-1275. DOI: 10.3837/tiis.2023.04.012.	1.5
4	K. Panneerselvam, <b>K. Mahesh</b> , V. L. Helen Josephine, and A. Ranjith Kumar, "Effective and efficient video compression by the deep learning techniques," Computer Systems Science and Engineering, vol. 45, no.2, pp. 1047–1061, 2023.	4.397
5	M. Ramesh & <b>K. Mahesh</b> (2023), Efficient key frame extraction and hybrid wavelet convolutional manta ray foraging for sports video classification, The Imaging Science Journal, DOI: 10.1080/13682199.2023.2191539	0.242
6	Geetha, N., <b>K. Mahesh</b> , An Efficient Enhanced Full Homomorphic Encryption for Securing Video in Cloud Environment. Wireless Personnel Communication 123, 1553–1571 (2022).	2.019
7	M. Ramesh, <b>K. Mahesh</b> , "Sports Video Classification Framework Using Enhanced Threshold Based Key Frame Selection Algorithm and Customized CNN on UCF101 and Sports1-M Dataset", Computational Intelligence and Neuroscience, vol. 2022, Article ID 3218431, 15 pages, 2022.	3.12
8	Karthick Panneerselvam, K. Rajalakshmi, V. L. Helen Josephine, Dhivya Rajan, L. Visalatchi, <b>K. Mahesh</b> , Meroda Tesfaye, "Improving the Security of Video Embedding Using the CFP SPE Method", Journal of Engineering, vol. 2022, Article ID 6903695, 5 pages, 2022.	2.58
9	S Muthakshi, <b>K Mahesh</b> , "Container selection processing implementing extensive neural learning in cloud services", Materials Today: Proceedings, 2021, ISSN 2214-7853.	1.46

10	D. Mohanapriya and <b>K. Mahesh</b> , "Multi object tracking using gradient-based learning model in video-surveillance," in China Communications, vol. 18, no. 10, pp. 169-180, Oct. 2021, Doi : 10.23919/JCC.2021.10.012	2.688
11	S Muthakshi, <b>K Mahesh</b> , "Enhanced Cloud Optimization Model for CSP, Tenant and User Through Container," 2021 IEEE International Conference on Mobile Networks and Wireless Communications (ICMNBC), Tumkur, Karnataka, India, 2021, pp. 1-5, IEEE Explore, Doi:10.1109/ICMNBC52512.2021.9688531.	1.21
12	N. Gayathri, <b>K. Mahesh</b> "Improved Fuzzy-Based SVM Classification System using Feature Extraction for Video Indexing and Retrieval" International Journal of Fuzzy Systems, Volume: 22, Number: 5, Pg. No: 1716–1729, ISSN No:1562-2479, DOI: HTTPs://doi.org/10.1007/s40815-020-00884-z, Published Online:28.05.2020[Springer].	4.085
13	N. Geetha and <b>K. Mahesh</b> , "Video Frame Encryption using Symmetric Algorithm," 2020 International Conference on Communication and Signal Processing (ICCSP), 2020, pp. 114-118, IEEE Explore.	1.5
14	Subraja, K., Geetha, N., & <b>K. Mahesh</b> , (2020). BITS – A Novel Video Encryption Algorithm. In International Journal of Innovative Technology and Exploring Engineering (Vol. 9, Issue 8, pp. 101–105). Blue Eyes Intelligence Engineering and Sciences Engineering and Sciences Publication - BEIESP.	5.662
15	M. Ramesh and <b>K. Mahesh</b> , "A Performance Analysis of Pre-trained Neural Network and Design of CNN for Sports Video Classification," 2020 International Conference on Communication and Signal Processing (ICCSP), 2020, pp. 0213-0216, IEEE Explore.	1.55
16	M. Ramesh, <b>K. Mahesh</b> , "Sports Video Classification with Deep Convolution Neural Network: A test on UCF101 Dataset", International	5.662

	Journal of Engineering and Advanced Technology (JEAT) ISSN: 2249 – 8958, Volume-8 Issue-4S2, April 2019.	
17	D. Mohanapriya, <b>K. Mahesh</b> ,” Robust Visual Target Tracking Via Nearest Sequential Boundary Pattern” International Journal of Pure and Applied Mathematics Volume 118 No. 7 2018, 207-213, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on line version), February 2018.	0.53
18	S. Priyadharshini, D. Mohanapriya, <b>K. Mahesh</b> ,” A Robust Framework for Multiple Object Detection and Tracking in Video Surveillance” International Journal of Pure and Applied Mathematics, Volume 118 No. 7 2018, 207-213, ISSN:1311-8080 (printed version); ISSN: 1314-3395 (on-line version), February 2018.	0.53
19	S. Karolin Mary, D. Mohanapriya, <b>K. Mahesh</b> ,” Sequential Pixel Text Detector: A Cohesive Framework for Text Detection and Recognition in Video”, International Journal of Pure and Applied Mathematics, Volume 118 No. 7 2018, 207-213, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version), February 2018.	0.53
20	N. Gayathri, <b>K. Mahesh</b> ,” A Systematic Study on Video Indexing” International Journal of Pure and Applied Mathematics, Volume 118 No. 7 2018, 207-213, ISSN: 1311-8080 (printed version); ISSN: 1314-3395 (on-line version), February 2018.	0.53
21	K. Rajalakshmi, <b>K. Mahesh</b> ,” ZLBM: Zero Level Binary Mapping Technique for Video Security” Multimedia Tools and Applications – Springer, Vol 77, Issue 11, Page no. 13225-13247, June 2018, Online: July 2017.	1.403
22	D.Mohanapriya, <b>K. Mahesh</b> ,” A novel foreground region analysis using NCP-DBP texture pattern for robust visual tracking” Multimedia Tools and Applications–Springer, “Intelligent Systems for Digital Archiving, Analysis and Documentation of Multimedia Content, Online: March 2017	1.403

23	K. Rajalakshmi, <b>K. Mahesh</b> , “A Review on Video Compression and Embedding Techniques”, International Journal of Computer Applications (IJCA), Vol.141, No.12, May 2016, pp.32-36, ISSN: 0975-8887.	3.152
24	<b>K. Mahesh</b> , S. Narmatha, “Independent Component Analysis (ICA) based Face Recognition System”, International Journal for Advance Research in Engineering and Technology (IJARET), Vol.3, Issue VII, July 2015, pp.4-8, ISSN: 2320-6802.	8.504
25	<b>K. Mahesh</b> , N. Priyanka, “A New Hybrid Video Segmentation Approach to detect moving objects”, International Journal for Advance Research in Engineering and Technology (IJARET), Vol.3, Issue VII, July 2015, pp.9-13, ISSN: 2320-6802.	8.504

### Resource persons in various capacities

International Conferences : 01  
Invited Lectures : 09

Date :

Place :