Dr. K. Mahesh
Professor

Contact

Address	:	Department of Computer Applications
		Alagappa University
		Karaikudi – 630003
		Tamil Nadu, INDIA
Employee Number	:	51402
Date of Birth	:	25-05-1965
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Academic Qualifications: M.A./M.Sc./M.Phil./Ph.D./

M.C.A., M.Phil., Ph.D.

Teaching Experience: _____Years

28 Years

Research Experience: _____Years

12 Years 5 Months

Additional Responsibilities

1. Cultural Club Coordinator
2. NAAC Coordinator
3. Class Advisor for M.C.A students
4. Department member in the design of curriculum for M.C.A programmes
5. Addl. Chief Superintendent to conduct DDE examinations at various centres

Areas of Research

Specialization(s): Video Segmentation, Video Processing, Image Processing

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	-	05
	M.Phil.	40	08
Project	PG	196	08
	UG / Others	-	-

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters / Monographs / Manuals
79	33	03	27	03

Cumulative Impact Factor (as per JCR) :   2.9
h-index   :   05
i10 index   :   01
Total Citations   :   1-3

Funded Research Projects

Completed Projects

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

Ongoing Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1					
2					

Consultancy Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	**To**		
1					
2					

Others

1. Chaired a Paper presentation session in the National Conference on Mining, Internetworking and Data Security – MINDS 2014, conducted by the Department of Computer Science and Engineering, Alagappa University, Karaikudi, March 27-28, 2014.

2. Chaired a Paper presentation session in the National conference on Recent Advancements in Software Development (NCRASD-2015) organized by Skill Development centre, Alagappa University, Karaikudi under the B.Voc grant sanctioned by UGC. New Delhi, March 23, 2015.

3. Chaired a Paper presentation session in the National conference on Emerging Trends in Software Development (NCETSD-2016), Alagappa Institute of Skill Development, Alagappa University, Karaikudi, March 24th, 2016.

4. Chaired a Paper presentation session in the International Conference on Innovations in Computer Science and Technology (ICICST 2016) Department of Computer Science and Engineering, Alagappa University, Karaikudi, April 4th - 5th, 2016.

5. Chaired a Paper presentation session in the IT Skills Show and International conference on Advancements in Computing Resources organized by Skill Development centre, Alagappa University, Karaikudi, 15th -16th February 2017.

6. Chaired a Paper presentation session in the International Conference on Mathematical Modeling And Computational Methods in Science and Engineering organized by Ramaanujam Centre for Higher Mathematics and Department of Computer Mathematics, Alagappa University, Karaikudi, February 20-22, 2017.

7. Chaired a Paper presentation session in the National Conference on Emerging Trends in Computing 2017 Department of Computer Science and Engineering, Alagappa University, Karaikudi, March 13th -14th, 2017.

8. Key-note Speaker on International Seminar on Intelligent Computing and Interactive Systems Thassim Beevi Abdul Kadeer College for Women,Kilakarai, September 5th ,2017.

9. Chaired a Paper presentation session in the International Conference on Advances in Computer Science, Engineering and Technology(ICACSET '18) Kalasalingam University , January 19th to 20th 2018.

10. Chaired a Paper presentation session in the National Conference on Cyber Security(NCCS-2018) Department of Computer Science Alagappa University, Karaikudi, January 25th ,2018.

11. Co-Convener in Hands on Training in Computer Networks and R Programming Department of Computer Applications, Alagappa University, Karaikudi, March 21st - 22nd ,2018.

12. Key-note Speaker on Recent Trends in Distributed Computing J.J.College of Arts and Science,Pudukkottai, February 21st ,2018.

13. Co-Convener and Chaired a Paper presentation session in the International Conference on Information, Communication and Digital Security (ICICDS'18)Department of Computer Applications, Alagappa University, Karaikudi, March 21st -22nd ,2018.

14. Co-ordinator in the National Seminar on "Recent Research Trends and Developments in Computer Science" Department of Computer Applications, Alagappa University, Karaikudi, March 8th 9th ,2018.

Note: Budget must be rounded to two decimal places

Patents

1. xxx
2. xxx

Distinctive Achievements / Awards

1. Certificate of Commemoration for completing 25 years of unblemished service
2. Received Letter of Appreciation Certificate for Cultural Club Coordinator in Alagappa University

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events attended : 45

Number of Seminars organized : 02

Number of Events organized : 03

Number of Invited / Special Lectures delivered : 07

Number of Books / Chapters / Monographs / Manuals written : 03

Events Participated (optional)

Conferences / Seminars / Workshops: xx

1. National Seminar Organized by Dept. of. Computer Science
2. International Workshops Organized by Dept. of. Computer Science

Other Training Programs

1. xxx
2. xxx

Overseas Exposure / Visits

1. xxx
2. xxx

Membership in

Professional Bodies

1. Member in International Association of Engineers (IAENG)
2. Member, Board of studies, M.Sc(IT), Alagappa University affiliated colleges
3. Member, Board of studies, MCA and M.Phil, Alagappa University.
4. Member, Board of studies, B.Com(CA), Alagappa University affiliated colleges

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.

Advisory Board

1. Xxx

2. xxx

Academic Bodies (such as Board of Studies etc.,)

1. Member in International Association of Engineers (IAENG)
2. Member, Board of studies, M.Sc(IT), Alagappa University affiliated colleges
3. Member, Board of studies, MCA and M.Phil, Alagappa University colleges

Others

1. xxx

2. xxx

Resource persons in various capacities

1. Presented Key Note Address in the National Seminar on Current Trends in Computing Technologies organized by the PG Department of Computer Science, Government Arts College for women, Ramanathapuram, Feb 28, 2015.

2. Presented Key Note Address in the Intercollegiate Meet (TECHNO'15) organized by the PG Department of Computer Science, Idhaya College For Women, Sarugani, Sep 9th ,2015.

3. Presented Key Note Address in the International Seminar on "Intelligent Computing and Interactive systems-ISICIS 17" organized by the Department of Computer Science and Research Centre , Thassim Beevi Abdul Kader College for Women, Kilakarai, Sep 5th ,2017.

4. Presented Key Note Address in the International Seminar on Open Source Technology and Tools, J.J.College of Arts and Science,Pudukkottai. Feb 21,2017

Others

1. Articles published in Newspapers / Magazines : xx

2. Products developed : xx

3. No. of PhD Thesis evaluated : 3

4. No. of PhD Public Viva Voce Examination conducted : 3

5. Sequences submitted in GenBank

**Social Interests and Initiatives / Articles in News papers etc can also be included

Recent Publications

1. K.Mahesh, 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. Impact Factor:8.504

2. K.Mahesh, 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. Impact Factor:8.504

3. N.Suganya, Dr.K.Mahesh, "An Effective Picture covert allocation scheme with Autostereogram", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol.3, Special issue 20, April 2016, pp.42-46, ISSN : 2394-3785. Impact Factor:4.753

4. PL.D.Lavanya, Dr.K.Mahesh, "An Efficient Hybrid approach for moving object detection in Video Surveillance system ", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol.3, Special issue 20, April 2016, pp.73-76, ISSN : 2394-3785. Impact Factor:4.753

5. U.Thavamani, Dr.K.Mahesh, "A Robust Video Compression method based on LZW encoding in 2D-DCT Domain ", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol.3, Special issue 20, April 2016, pp.91-95, ISSN : 2394-3785. Impact Factor:4.753

6. D.Elakkiya, Dr.K.Mahesh, "A Robust Video Steganography method based on Integer Haar Wavelet Transform and Spread Spectrum technique ", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol.3, Special issue 20, April 2016, pp.113-116, ISSN : 2394-3785. Impact Factor:4.753

7. R.Ranjana, Dr.K.Mahesh, "Video Compression using HEVC Standard tool", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol.3, Special issue 20, April 2016, pp.247-250, ISSN : 2394-3785. Impact Factor:4.753

8. K.Rajalakshmi, Dr.K.Mahesh, "A Survey on Video Compression and Video Embedding Methods", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol.3, Special issue 20, April 2016, pp.469-473, ISSN : 2394-3785. Impact Factor:4.753

9. D.Mohanapriya, Dr.K.Mahesh, "A Survey on Video Object Tracking System", International Journal of Advanced Research Trends in Engineering and Technology (IJARTET), Vol.3, Special issue 20, April 2016, pp.474-479, ISSN : 2394-3785. Impact Factor:4.753

10. K.Rajalakshmi, Dr.K.Mahesh, "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. Impact Factor:3.152

11. D.Mohanapriya, Dr.K.Mahesh, "Video Tracking System by suppressing shadow and Feature Extraction- A Review", International Journal of Computer Engineering and Applications(IJCEA), Vol.10, No 6 ,June , 2016, ISSN : 2321-3469 Impact Factor:3.715

12. D.Mohanapriya, Dr.K.Mahesh,"Robust Video Tracking System with shadow suppression based on Feature Extraction",Australian Journal of Basic and Applied Sciences, Vol.10, No.11 (July), 2016, ISSN :1991-8178, EISSN: 2309-8414. Impact Factor:0.786

13. U.Thavamani, Dr.K.Mahesh," Hybrid Video Compression Using 2D DCT and Area Encoding Techniques", International Journal Of Research & Development Organization (IJRDO)--Journal Of Computer Science and Engineering, Vol 2,Issue 7,July 2016. ISSN: 2456-1843. Impact Factor:4.25

14. PL.D.Lavanya, Dr.K.Mahesh," Hybrid Approach for Moving Object Detection in Video Surveillance System", International Journal Of Research & Development Organization (IJRDO)-Journal Of Computer Science and Engineering, Vol 2, Issue 7, Page No: 34-36, July 2016. ISSN:2456-1843 Impact Factor:4.25

15. D.Elakkiya, Dr.K.Mahesh," Video Steganography Method Based on Haar DWT and Spread Spectrum Technique", International Journal Of Research & Development Organization (IJRDO)-Journal Of Computer Science and Engineering, Vol 2, Issue 7, Page No: 34-36, July 2016. ISSN:2456-1843 Impact Factor:4.25

16. N.Suganya, Dr.K.Mahesh," Creative Image Covert Sharing Method with Auto stereogram for Image Security", International Journal Of Computer Science Trends and Technology(IJCST), Vol 4, Issue 4, , July-Aug 2016. ISSN:2347-8578 Impact Factor:4.378

17. K.Rajalakshmi, Dr.K.Mahesh, "Video Embedding with Compression Based on Patchwise Code Formation", Australian Journal of Basic and Applied Sciences, Vol.10, No.13 (August), 2016, ISSN : 1991-8178, EISSN: 2309-8414. Impact Factor: 0.786

18. R.Ranjana, Dr.K.Mahesh," Video Compression Using Compact Tool (HEVC)", International Journal Of Advanced Research in Computer Science and Software Engineering (IJARCSSE), Vol 6, Issue 7, August 2016. Impact Factor:2.5

19. D.Mohanapriya, Dr.K.Mahesh," 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,DOI 10.1007/s11042-017-4409-3 Online :March2017.Impact Factor:1.403

20. Y.ArockiaDayana,Dr.K.Mahesh "Detecting Facial Retouching using SDL Technique" International Journal for Modern Trends in Science and TechnologyVolume: 03, Issue No: 05, May 2017, PP:143-150. ISSN: 2455-3778.Impact Factor:2.375.

21. G.Prabavathi, Dr.K.Mahesh, "Automated Analysis of Microaneurysm Detection of Diabetic Retinopathy"International Journal for Modern Trends in Science and Technology Volume: 03, Issue No: 05, May 2017, PP:151-156.ISSN: 2455-3778. Impact Factor:2.375.

22. K.Rajalakshmi,Dr.K.Mahesh "A Survey: Secure Data Transmission on Video Embedding Using PCF Technique" International Journal for Modern Trends in Science and TechnologyVolume: 03, Issue No: 05, May 2017,PP-279-282.ISSN: 2455-3778.Impact Factor:2.375.

23. D.Mohanapriya,Dr.K.Mahesh "A Comparative Analysis of Video Tracking Techniques" International Journal for Modern Trends in Science and Technology, Volume: 03, Issue No: 05, May 2017, ISSN: 2455-3778.Impact Factor:2.375.

24. K.Bhuvaneswari,Dr.K.Mahesh" An Efficient Chaotic Cryptosystem for Real-time MPEG Video Encryption Algorithm using Arnold's Cat Map and Henon Map" International Journal of Research & Development Organisation,Volume: 03,Issue 5,May 2017. Impact Factor:4.25

25. S.Shanmugapriya,Dr.K.Mahesh" An Efficient Hybrid Approach for Detecting and Tracking Moving Objects for Video Surveillance" International Journal of Research & Development Organisation,Volume: 03,Issue 5,May 2017.Impact Factor:4.25

26. S.Prabhuraja,Dr.K.Mahesh" An Optimized Video Steganographic Method based on Ant Colony Optimization (ACO) Algorithm" International Journal of Research & Development Organisation,Volume: 03,Issue 5,May 2017.Impact Factor:4.25

27. S.Arunpandian, Dr.K.Mahesh "A Review on Various Encryption Techniques and Quality Metrics for Images" International Journal for Modern Trends in Science and Technology Volume: 03, Issue No: 07, May 2017, ISSN: 2455-3778.Impact Factor:2.375.

28. K.PasalikkaJansi,Dr.K.Mahesh "A Review on Motion Detection and Tracking Techniques" International Journal for Modern Trends in Science and TechnologyVolume: 03, Issue No: 06, June 2017, PP-219-224.ISSN: 2455-3778.Impact Factor:2.375.

29. K.Rajalakshmi, Dr.K.Mahesh," ZLBM:Zero Level Binary Mapping Technique for Video Security" Multimedia Tools and Applications –Springer.DOI 10.1007/s11042-017-4942-0 Volume 77, Issue 11, Pageno. 13225-13247, June 2018 ,Online :July 2017.Impact Factor:1.403

30. K.PasalikkaJansi,Dr.K.Mahesh "Detection Of Motion And Tracking Based On Consecutive Frame Using Differnce Hybrid Filtering Method" International Journal of Engineering and Computer Science,Volume: 06, Issue No: 07, July 2017, PP-.ISSN: 2319-7242.Impact Factor:2.38.

31. S.Arunpandian, Dr.K.Mahesh "Image Encryption Using Genetic Algorithm" International Journal of Engineering and Technology (IJET) Volume: Issue No: e-ISSN: 0975-4024 (online Version).

32. C. Kathirvel, D. Mohanapriya, Dr. K. Mahesh, "A Novel Robust Approach for Moving Object Detection and Tracking in Video Surveillance System", International Journal of Scientific Research in Science and Technology(IJSRST), Print ISSN : 2395-6011, Online ISSN : 2395-602X, Volume 3, Issue 8, pp.1235-1241, November-December-2017. Impact Factor:5.327

33. S. Pandiammal, K. Rajalakshmi, Dr. K. Mahesh, "An Enhanced Approach for Video Compression", International Journal of Scientific Research in Science and Technology (IJSRST), Print ISSN : 2395-6011, Online ISSN : 2395-602X, Volume 4, Issue 2, pp.167-173, January-February-2018. Impact Factor:5.327

34. A. Syed Kalith, D. Mohanapriya, Dr. K. Mahesh, "Video Scene Segmentation : A Novel Method to Determine Objects", International Journal of Scientific Research in Science and Technology(IJSRST), Print ISSN : 2395-6011, Online ISSN : 2395-602X, Volume 4, Issue 2, pp.90-94, January-February-2018. Impact Factor:5.327

35. D. Mohanapriya, Dr. K. Mahesh," 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. Impact Factor:2.13

36. K.Rajalakshmi, Dr. K. Mahesh," An Innovative Video data Embedding Method for Video Security" 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. Impact Factor:2.13

37. S.Karolin Mary, D. Mohanapriya, Dr. K. Mahesh," 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. Impact Factor:2.13

38. S.Priyadharshini, D. Mohanapriya, Dr. K. Mahesh,"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. Impact Factor:2.13

39. N.Gayathri, Dr. K. Mahesh,"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. Impact Factor:2.13

40. P.Ananthi, K.Rajalakshmi, Dr. K. Mahesh," Efficient Data Hiding for MPEG-4 using Extended Prediction Algorithm" 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. Impact Factor:2.13

41. M.Ramesh, Dr. K. Mahesh," Significance of Various Video Classification Techniques and Methods " 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. Impact Factor:2.13

42. N.Geetha, Dr. K. Mahesh," Efficient Video Encryption Using RRS Algorithm" 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. Impact Factor:2.13

43. M.Suryakala, K.Rajalakshmi, Dr. K. Mahesh," A Systematic Study on Multimedia Compression and its techniques" 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. Impact Factor:2.13

44. M.Ramesh,Dr.K.Mahesh," Multidimensional View of Automatic Video Classification : An Elucidation " International Journal of Computer Science and Engineering, Volume 5 Issue 8, EISSN: 2347-2693 ,February 2018. Impact Factor:2.638