



**Dr. K. KUPPUSAMY**  
**Professor**

### Contact

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Date of Birth : 13-04-1962

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**Academic Qualifications: M.Sc., M.Phil., M.C.A., B.Ed., Ph.D.**

**Teaching Experience: 29 Years**

**Research Experience: 15 Years**

### Additional Responsibilities

1. Chairperson, School of Computer Sciences, Alagappa University from 22-6-2015 onwards
2. Warden, PG Men's Hostel, Alagappa University from 8.8.2013 onwards
3. Director i/c, Computer Centre, Alagappa University, Karaikudi. From 30-10-2009 to 29-11-2011

4. Chief Superintendent for University PG, B.Ed.,M.Ed and M.Phil Examinations April 2011, December 2011 and April 2012
5. Chief Superintendent for DDE Examinations May 2012.
6. Coordinator for M.C.A (Week End) Program from April 2008 to April 2012

### Areas of Research

Network / Information Security, Neural Networks, Operations Research

### Research Supervision / Guidance

| Program of Study |                         | Completed | Ongoing |
|------------------|-------------------------|-----------|---------|
| Research         | Ph.D.                   | 7         | 5       |
|                  | M.Phil.                 | 28        | 4       |
| Project          | PG                      | 120       | 8       |
|                  | UG / Others<br>(M.Tech) | 2         | --      |

### Publications

| International |             | National |             | Others   |
|---------------|-------------|----------|-------------|--|
| Journals      | Conferences | Journals | Conferences | Books /<br>Chapters /<br>Monographs /<br>Manuals |
| 84            | 30          | 6        | 40          | Book - 1<br>Chapter - 1                          |

**Cumulative Impact Factor (as per JCR) :** 78.053  
**h-index :** 7  
**i10 index :** 5  
**Total Citations :** 168

## Funded Research Projects

### Completed Projects

| S. No | Agency          | Period |        | Project Title  | Budget (Rs. In lakhs) |
|-------|-----------------|--------|--------|--|-----------------------|
|       |                 | From   | To     |  |                       |
| 1     | NTRO, New Delhi | 8/2008 | 8/2012 | CDBR - Smart and Secure Environment (Role : Addl. Co-Investigator)           | 100                   |
| 2     | AURF            | 4/2010 | 4/2011 | Cryptanalysis of Image Encryption Algorithms (Role : Principal Investigator) | 0.20                  |

## Distinctive Achievements / Awards

Certification of Commemoration by Alagappa University

25 years completion of service in Alagappa University - Teacher's day Sep.2016 Celebration

## Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 7

1. Co-Convenor , International Workshop on "Data Science and Analytics" on 27-28<sup>th</sup> Sep.2016
2. Member, Parent Teacher Association Meeting on 8<sup>th</sup> Nov. 2016
3. Co-Convenor, International Conference on Innovations in Computer Science and Technology (ICICST 2016) organized by Dept. of Computer Sci.&Engg Alagappa University,, Karaikudi. 4-5 April 2016.
4. Conference Coordinator, National Conference on Mining, Internetworking and Data Security (MINDS 2014) organized by Dept. of Computer Science and Engg., Alagappa University, Karaikudi, Mar. 27-28, 2014.
5. Organizing Committee Member, National Seminar on Advanced Computing Technologies organized by School of Computer Science Alagappa University Karaikudi, March 31, 2010
6. Organizer, Computer Security Day organized by Alagappa University, Karaikudi 1<sup>st</sup> December 2010

7. Organizing Committee Member, Seminar on Convergent Technologies in IT Industry organized by Department of Computer Science and Engineering, Alagappa University Karaikudi, October 10, 2009

## Events Participated

### Conferences / Seminars / Workshops: 31

#### INTERNATIONAL CONFERENCES

1. IEEE -4<sup>th</sup> International Conference on Electronics Computer Technology (ICECT 2012) organized by IEEE & IETE held at Kanyakumari, India, April 6-8, 2012
2. IEEE - International Conference on Network and Computer Science (ICNCS 2011) organized by IACSIT, IETE & IEEE held at Kanyakumari, India on April 8-10, 2011
3. International Conference on Operations Research and its Recent Development and Applications organized by S.V.University, Tripati, 15-12-2008 to 17-12-2008
4. International Conference on Statistical Science, OR and IT organized by Dravidan University Kuppam and ISPS held at Tirupathi on 7-1-2007 to 9-1-2007
5. International Conference on Operations Research Applications in Infrastructure Development (ICORID) organized by Operations Research Society of India held at Indian Institute of Science, Bangalore on 27-12-2005 to 29-12-2005

#### NATIONAL CONFERENCES / SEMINARS

1. National Seminar on Recent Developments in Computer Networks (NSRDCN 2016) organized by Dept. of Computer Application on 7-8 Nov.2016
2. National Conference on Emerging Trends in Software Development (NCETSD-2016) organized by Skill Development Centre, Alagappa University, Karaikudi. on March 24, 2016
3. National Seminar on "Mobile Banking System and Indian Economy" organized by Dept. of Economics, Bharathidasan University, Tiruchirappalli, Feb.3, 2016
4. National Conference on Recent Developments in Software Development (NCRASD-2015) organized by Skill Development Centre, Alagappa University, Karaikudi. March 23, 2015
5. National Conference on Data Science (NCDS-2014) organized by Dept. of Computer Science and Research Centre, S.T.Hindu College, Nagercoil, August 8-9, 2014.

6. National Conference on Mining, InterNetworking and Data Security (MINDS-2014) organized by Dept. of Computer Science and Engineering, Alagappa University, Karaikudi, March 27-28, 2014.
7. National Conference on Future Computing, (NCFC-2012) organized by Dept. of Computer Science, Pondicherry University, Karaikal Campus, March 30, 2012.
8. National Conference on Advanced Computing organized by Jamal Mohamed College, Tiruchirappalli, February 8, 2011
9. National Conference on Recent Trends in Mathematics and its applications organized by Department of Mathematics, Alagappa University Karaikudi, December 22, 2010
10. National Seminar on Advanced Computing Technologies organized by School of Computer Science, Alagappa University Karaikudi, March 31, 2010
11. Seminar on Convergent Technologies in IT Industry organized by Department of Computer Science and Engineering, Alagappa University Karaikudi, October 10, 2009.
12. 9<sup>th</sup> National Tamil Science Congress, Alagappa University, Karaikudi organized by Alagappa University Karaikudi, September 11-13 2009
13. Seminar on Recent Trends in Information Technology organized by Dept. of Computer Science & Engg. Alagappa University Karaikudi, March 16-17, 2009
14. National Conference on Analysis of Computer Algorithms (NCAC-2005) organized by Department of Computer Science and Engineering, Annamalai University, Annamalainagar, March 19-20, 2005.
15. National Seminar on Fuzzy Mathematics and its applications organized by Dept. of Mathematics, Alagappa University, Karaikudi, 3-3-2006 to 4-3-2006
16. National Seminar on Fuzzy Mathematics and its applications organized by Dept. of Mathematics, Alagappa University, Karaikudi, 28-3-2008 to 29-3-2008

## **WORKSHOPS**

1. Workshop on "Curriculum Designing and Development" for the Chairpersons of Boards of Studies of Affiliated Colleges organized by Curriculum Development Cell, Alagappa University, Karaikudi, 24-4-2013
2. National Workshop on "Expansion and Enrichment of Distance Learning" (EEDL-2012) organized by Directorate of Distance Education, Alagappa University, March 27-28, 2012.
3. 16<sup>th</sup> Workshop on Smart and Secure Environment Project (funded by NTRON New Delhi) organized by Alagappa University Karaikudi, December 17-18, 2010

4. 11<sup>th</sup> Workshop on Smart and Secure Environment Project (funded by NTRO New Delhi) organized by PSG College of Technology, Coimbatore 18-19 Sep 2009
5. Workshop on Smart and Secure Environment Project (funded by NTRO New Delhi) organized by Alagappa University, Karaikudi 20-21 June 2008
6. Workshop on Smart and Secure Environment Project (funded by NTRO New Delhi) organized by National Institute of Technology, Tiruchirappalli 23-24 March 2007
7. Workshop on Information Security Education & Awareness organized by Dept. of Computer Sci. & Engg, Pondicherry University, Pondicherry, 26-27 December 2006
8. Workshop on Information Security Education & Awareness organized by Dept. of Computer Sci. & Engg, Thiagarajar College of Engg, Madurai 26-27 September 2006
9. Workshop on Information Security Education & Awareness organized by Network Systems Laboratory, Dept. of Computer Sci. & Engg, I.I.T.M, Chennai, 26-27 June 2006
10. National Workshop on Restructuring Higher Education Curriculum in the context of Globalization organized by Curriculum Development Centre, Alagappa University, Karaikudi, 24-26 March 2006

### **Other Training Programs**

1. Cloud Infrastructure and Services conducted by ICT Academy of Tamilnadu, Chennai at Alagappa University, Karaikudi, 23-2-2015 to 27-2-2015
2. J2EE and Best Practices in Application Development conducted by ICT Academy of Tamilnadu, Chennai at Alagappa University, Karaikudi, 8-9<sup>th</sup> October 2009

### **Membership in**

#### **Professional Bodies**

- Member, Operational Research Society of India, Kolkatta.
- Member, Cryptology Research Society of India, Kolkatta.

#### **Editorial Board**

- Editorial Board Member, Thiagarajar Journal of Arts and Science (TeJAS)

#### **Reviewer**

- Neural Computing and Applications – Springer ISSN: 0941-0643
- Journal of Information Science and Engineering, Taiwan

- International Journal of VLSI design & Communication Systems (VLSICS)  
Publisher: Academy & Industry Research Collaboration Center (AIRCC)
- 2nd IEEE NATIONAL CONFERENCE REVIEW-ncetacs 2011, Shillong

### **Alagappa University**

- Member, Board of Studies in Computer Science (University Dept. MCA, M.Sc (CS), MPhil.(CS), MCA (DDE) Courses)
- Member, Board of Studies in M.Phil. Computer Science for Affiliated Colleges.
- Chairman, Board of Studies for Affiliated Colleges B.Sc.(Software).
- Chairman, Board of Studies for Affiliated Colleges PGDCA & DCA. .
- Member, Board of Studies for Affiliated Colleges B.Sc.(Computer Science) .
- Member, Board of Studies for Affiliated Colleges B.Com.(CA)
- Member, Department Doctoral Committee.
- Member, MCA, Admission Interview Committee
- Member, E-Literacy Cell
- Member, Placement Cell
- Member, Website Network Committee
- Affiliated Colleges Programmes / Research Centre Inspection Committee Member
- Nodel Officer, NMEICT-NKN Connectivity upto 29-11-2011

### **Other Institutions**

- Member. SET 2011, Oct 2012 Examinations Computer Science, Bharathiar University
- Bharathidasan University Nominee, Board of Studies for Computer Science, Govt. Arts College, Pudukkottai
- Bharathidasan University Nominee, Board of Studies for Computer Science, National College, Trichirappalli.
- Member, Board of Studies for Computer Science, Scott Christian College, Nagercoil.
- Member, Research Committee, Saradha Nikethan College for Women, Amaravathi pudur, Karaikudi.

### **Resource persons in various capacities**

Number of Invited / Special Lectures delivered: 11

1. Valedictory Address in National Conference on “Recent Trends in Computer Science and Applications” (NCRTCSA-2016) organized by Dept. of Computer Science and

Applications, Rabiammal Ahamed Maideen College for Women, Tiruvarur. 23-24 Sep. 2016

2. Session Chair, National Conference on Emerging Trends in Software Development (NCETSD-2016) organized by Skill Development Centre Alagappa University, Karaikudi, 24-3-2016
3. Session Chair, National Conference on Emerging Trends in Software Development (NCETSD-2015) organized by Skill Development Centre Alagappa University, Karaikudi, 23-3-2016
4. Resource Person, "IT Trends and Security Concerns", TECHSA-15 National Seminar on "Current Trends in Computing Technologies" organized by PG Dept. of Computer Science, Govt. Arts College for Women, Ramanathapuram 28-2-2015
5. Session Chair, UGC sponsored National Conference on Data Science (NCDS-2014) organized by Dept. of Computer Science and Research Centre, S.T.Hindu College, Nagercoil, Aug. 8-9, 2014.
6. Felicitation Address, Short Term Course on Web-Designing, Image Editing and Office Automation Skills organized by Entrepreneurship & Skill Development Centre, Alagappa University, Karaikudi May 2, 2014
7. Key note Address on "Trends in Computing Technologies", TECHSA-14 Intra-department meet festival organized by PG Dept. of Computer Science, Govt. Arts College for Women, Ramanathapuram 6-3-2014
8. Valedictory Address, UGC sponsored Two day workshop on Adv. Research Concepts in Computer Science using Matlab (ARCICS-2013) organized by Alagappa Govt. Arts College, Karaikudi Feb.. 27-28, 2013.
9. Session Chair, IEEE - 4<sup>th</sup> International Conference on Electronics Computer Technology (ICECT 2012), organized by IETE & IEEE Kanyakumari April 6-8, 2012
10. Inaugural Address, Inaugural function of Computer Science Association organized by Dept. of Computer Science Alagappa University Evening College. Rameshwaram, September 10-12, 2012
11. Session Chair, IEEE - International Conference on Network and Computer Science (ICNCS 2011) organized by IACSIT, IETE & IEEE Kanyakumari April 8-10, 2011
12. Lecture on "IT Skills", National Workshop on Placement Training organized by Placement Cell, Alagappa University, Karaikudi, 25-26 March 2010
13. Resource Person, Lecture on "Network Security Challenges and Solutions" State Level Seminar on 3G Mobile Technology & E-Learning organized by Thiagarajar Arts College, Madurai 29<sup>th</sup> Sep 2009



14. Resource Person, Lecture on Network Security and Issues in National Seminar on “Resources and Challenges of Network Security” organized by Dept. of Computer Science Syed Hameed College of Arts and Science, Ramanathapuram 13<sup>th</sup> August 2009

## Others

1. No. of PhD Thesis evaluated : 21
2. No. of PhD Public Viva Voce Examination conducted : 21

## Recent Publications

### International / National Journals

1. J. Mahalakshmi and K.Kuppusamy, (2016), “Security-as-a-Service” for files in cloud computing — A novel application model”, IEEE Xplore (ISBN: 978-1-4673-7807-9), 5<sup>th</sup> Nov. 2016. (I.F. 5.629)
2. P.Elango and K.Kuppusamy, (2016), “Fuzzy FP-Tree based Data Replication Management System in Cloud”, *International Journal of Engineering Trends and Technology (IJETT)*, (ISSN: 2231-5381), Vol.36, No.9, June 2016, pp. 481-489. (I.F: 1.656)
3. J. Mahalakshmi and K.Kuppusamy, (2016), “Data Security in Cloud Computing Via Bio – Inspired Optimization Technique”, *International Journal of Advanced Research Trends in Engineering and Technology(IJARTET)*,(ISSN:2394-3777),Vol.3, Special Issue 20, April.2016, pp 573-577. (I.F.4.753)
4. P.A.Moralie and K.Kuppusamy, (2016), “CBIC: A Novel Image compression Algorithm”, *International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)*, (ISSN:2394-3777), Vol.3, Special Issue 20, April.2016, pp 631-634. (I.F.4.753)
5. A. Hema and K.Kuppusamy, (2016), “Fuzzy based multilevel security access control mechanism for pervasive computing application: Smart Library Management”, *International Journal of Advanced Research Trends in Engineering and Technology (IJARTET)*, (ISSN:2394-3777),Vol.3,Special Issue 20, April.2016, pp 106-109. (I.F.4.753)
6. K.Thamodaran and K.Kuppusamy, (2016), “Security Scheme for Data Authentication Based on Elliptic Curve Cryptography”, *International Journal of Computer Science & Engineering Technology (IJCSET)* (ISSN : 2229-3345), Vol. 7 No. 04 Apr 2016, pp 156-162.

7. S. Murugan and K. Kuppusamy, (2016), "Functioning of Intelligence Intrusion Multi-Detection Prevention System", *i-manager's Journal on Information Technology*(JIT) (ISSN 2277-5110), Vol.5. No.1, Dec-February 2016, pp 18-27.
8. J. Mahalakshmi and K.Kuppusamy, (2016), "An Efficient Image Encryption Method based on Improved Cipher Block Chaining in Cloud Computing as a Security Service", *Australian Journal of Basic and Applied Sciences (AJBAS)* (ISSN 1991-8178 EISSN: 2309-8414), Vol. 10(2) Feb. 2016, pp 297-306., (I.F.0.786)
9. S. Murugan and K. Kuppusamy, (2015), "Unknown Malware Attack by using Intelligence Intrusion Multi Detection Systems", *International Journal of Applied Engineering Research (IJAER)*(ISSN 0973-4562), Vol.10. No.69, July 2015, pp 49 - 54 (I.F.0.12).
10. K. Mahesh and K.Kuppusamy, (2015), "A Comparative Study of Hybrid Video Segmentation Techniques using Fuzzy Clustering Algorithms", *International Journal of Applied Engineering Research (IJAER)*(ISSN 0973-4562), Vol.10. No.12, July 2015, pp 32321-32334, (I.F.0.12)
11. J. Mahalakshmi and K.Kuppusamy, (2015), "A Block Cipher based Cryptographic Algorithm to enhance the Data Security", *International Journal of Applied Engineering Research (IJAER)*(ISSN 0973-4562), Vol.10. No.55, June 2015, pp 1866-1870. (I.F.0.12)
12. K.C.Chandra Sekaran and K. Kuppusamy, (2015), "Block Truncation Code and Discrete Cosine Transform in Biometric Images", *International Journal of Computing Algorithm (IJCOA)* (ISSN 2278-2397), Vol.4, Spl.Issue, March 2015 pp.1355-135, (I.F 0.309)
13. A. Balu and K. Kuppusamy, (2014), "**An expressive and provably secure Ciphertext-Policy Attribute-Based Encryption**", *Information Sciences, ScienceDirect Elsevier journal*, Vol.276, 20 August 2014, pp 354-362 ISSN: 0020-0255. (I.F 3.643)
14. Kuppusamy K and Malathi S, (2014), "A new methodology to prevent DDoS attacks during peak hours of Server", Elsevier Publications, Proceedings of *National Conference on Data Science (NCDS-2014)*", August 8-9, 2014, pp 288-294, (ISBN : 978-93-5107-294-2)..
15. Kuppusamy K and Sharmila K, (2014), "A new hybrid Image Compression method using DCAT and Fractal with Quadtree Technique" Elsevier Publications, Proceedings of *National Conference on Data Science (NCDS-2014)*", August 8-9, 2014, pp 144-150, (ISBN : 978-93-5107-294-2).
16. K. Thamopdaran and K. Kuppusamy, (2014), "Optimized Partial Image Encryption Scheme Based on PSO and DE", *Journal of Computer Science and Applications (JCSA)* (ISSN 2231-1270), Vol.6, Number 1, May 2014 pp. 335-339.

17. K.C.Chandra Sekaran and K. Kuppusamy, (2014), "Efficiency of Gaussian Pyramid Compression Technique for Biometric Images" *International Journal of Computer Science and Issues (ISSN 1694-0814)*, Vol.11, Issue 3, May 2014 pp. 77-82. (I F : 0.242)
18. K.Kuppusamy and J. Mahalakshmi, (2013), "A Survey on Routing Algorithms for Cloud Computing" *International Journal of Computer Applications (ISSN:0975 – 8887)* International conference on Computing and Information Technology (IC2IT) Dec.2013, pp. 5-8. (I.F 0.715)
19. K.Kuppusamy and R. Mehala, (2013), "A New Image Compression Algorithm using Haar Wavelet Transformation", *International Journal of Computer Applications (ISSN:0975 – 8887)* International Conference on Computing and Information Technology (IC2IT) Dec.2013, pp. 1-4. (I.F 0.715)
20. K.Kuppusamy and P. Elango, (2013), "Data Replication for the Distributed Database using Decision Support Systems", *International Journal of Computer Applications (ISSN:0975 – 8887)* Vol 69, No.3, May 2013, pp. 28-39 (I.F 0.715)
21. Balu and K. Kuppusamy, (2013), "Ciphertext-Policy Attribute-Based Encryption with User Revocation Support", Springerlink Quality, Reliability, Security and Robustness in Heterogeneous Networks\ Lecture Notes of the Institute for Computer Sciences, Social Informatics and Telecommunications Engineering *Proceedings of 9th International Conference, QShine 2013, Greder Noida, India, January 11-12, 2013*, Volume 115, 2013, pp 696-705, DOI: 10.1007/978-3-642-37949-9\_61 ISSN : 978-3-642-37948-2 (I.F. 1.631)
22. K.Kuppusamy and K. Thamodaran, (2013), "Optimized Hybrid Image Security Scheme for Copyright Protection, Authentication and Confidentiality using PSO", *European Scientific Journal*, ISSN: 1857-7881, Vol.9, No.6, Feb. 2013, pp 129-146.(I.F.3.1)
23. Thamarai SM, Kuppusamy, K and Meyyappan T, (2012), "Test Compaction for Combinational Benchmark Circuits using Genetic Algorithm", *International Journal of Advanced Computing*, ISSN:2051-0845, Vol.35, Issue.10, Nov. 2012, pp 398-402.
24. K. Kuppusamy and S.Malathi, (2012), "Prevention of Attacks under DDoS Using Target Customer Behavior" *IJCSI International Journal of Computer Science Issues*, Vol. 9, Issue 5, No 2, September 2012 ISSN: 1694-081, pp 301-307. (I.F 0.242)
25. C. Pandimuthu and K. Kuppusamy, (2012), "High-Resolution Satellite Imagery Changes Detection using Agglomerative Fuzzy K-Means Clustering Algorithm" *International Journal of Computer Applications (0975 – 8887)* Volume 54– No.1, September 2012, pp 31-35. (I.F 0.715)
26. K. Mahesh and K. Kuppusamy, (2012), "FKM Based Approach for Hybrid Video Segmentation" *International Journal of Multimedia & Its Applications (IJMA)*" Vol.4, No.4, August 2012, pp 47-58. ISSN: 0975 – 5934

27. K.Kuppusamy and K. Thamodaran, (2012), "Optimized Image Watermarking scheme based on PSO", *Procedia Engineering ELSEVIER International Conference on Modeling and Computing*, June 2012, Volume 38, pp 493-503. ISSN: 1877-7058 (I.F. 0.25)
28. KC.Chandrasekaran and K. Kuppusamy, (2012), "Digital image compression using sparse matrix", *Indian J. Edu. Inf. Management., Vol. 1, No. 5 (May 2012)* ISSN 2277 – 5374, pp 182-184.
29. K. Mahesh and K. Kuppusamy, (2012), "A new hybrid algorithm for video segmentation", *Proceedings in Springerlink Advances in Computer Science, Engineering & Application Computer of Second International Conference on Computer Science, Engineering and Applications (ICCSEA 2012) May 2012* Volume 166, DOI: 10.1007/978-3-642-301575.
30. A.M Hema and K.Kuppusamy, (2012), "Trust based access control scheme for pervasive computing environment" *IEEE Explorer (IEEE ICRTIT-2012)* April 2012, pp 157-161. (I.F. 5.629)
31. K.Kuppusamy and K. Thamodaran, (2012), "Optimized Partial Image Encryption Scheme Using PSO", *IEEE Explorer (IEEE PRIME-2012)* March 2012, pp 236-241. (I.F. 5.629)
32. J.Mahalakshmi and K.Kuppusamy, (2012), "A new technique for Image Encryption using RIJNDAEL Block Cipher Algorithms", *International Journal of Computer Applications*, Vol. 45, No 11, May 2012, pp 7-10, ISSN 0975-8887. (I.F 0.715)
33. K. Shankar, K.Mahesh and K Kuppusamy, (2012), "Video Segmentation on 2D Images with 3D Effect" *"International Journal of Computer Applications"*, Vol. 43, No 8, April 2012, pp 1-4, ISSN 0975-8887. (I.F 0.715)
34. K. Mahesh and K Kuppusamy, (2012), "A New Hybrid Video Segmentation Algorithm using Fuzzy C Means Clustering" *"International Journal of Computer Science Issues(IJCSI)"*, Vol. 9, Issue 2, No 1, March 2012, pp 229-237, ISSN (Online): 1694-0814. (I F : 0.242)
35. K. Mahesh and K Kuppusamy, (2012), "Video Segmentation using Hybrid Segmentation Method" *"European Journal of Scientific Research"* Vol.71 No.3 (2012), pp. 312-326 (ISSN 1450-216X) (I.F. 0.802)
36. Kuppusamy K and Malathi S, (2011), "An effective prevention of attacks using GI Time frequency algorithm under DDOS" *International Journal of Network Security & Its Applications (IJNSA)*, Vol.3, No.6, November 2011, pp 249-257 (ISSN : 0975-2307)
37. Mahesh K, Kuppusamy K and Radha Priyadharsini G, (2011), "Tracking Objects of Deformable Shapes", *International Journal of Computer Science and Engineering Research and Development (IJCSERD)*, June 2011, Vol.1, No.1, pp 28-37 , (ISSN : 2248-9363)

38. Kuppusamy, K, Thamarai SM and Meyyappan T, (2011), "Fault based Test minimization for adder and subtractor circuits" IEEE Explorer (*IEEE ICCET 2011*) May 2011, pp 308-312. (I.F. 5.629)
39. Kuppusamy K and Malathi S, (2011), "A new Methodology to Prevent DDos Attacks using File Watcher and IP Watcher" *International Journal of Advanced Research in Computer Science* Vol.2 No.1 Jan-Feb. 2011, pp.391-396, (ISSN: 0976-5697).
40. Natarajan K and Kuppusamy K, (2011), "New Fast Clipping Algorithm for 2D-Polygon against Rectangular Windows" *CiiT International Journal of Digital Image Processing* Vol.1 No.11 January 2011, pp.63-69, (ISSN: 0974-9691).

### **International Conferences**

1. J. Mahalakshmi and K.Kuppusamy, (2016),"Data Security in Cloud Computing Via Bio – Inspired Optimization Technique", Proceedings of International Conference on Innovations in Computer Science and Technology (ICICST-2016), organized by the Department of Computer Science and Engineering, Alagappa University, Karaikudi, April 4-5, 2016. ISBN:978-81-920462-8-0
2. P.A.Moralie and K.Kuppusamy, (2016), "CBIC: A Novel Image compression Algorithm", Proceedings of International Conference on Innovations in Computer Science and Technology (ICICST-2016), organized by the Department of Computer Science and Engineering, Alagappa University, Karaikudi, April 4-5, 2016. ISBN:978-81-920462-8-0
3. J. Mahalakshmi and Kuppusamy K, (2016),, "A Novel approach for Data Encryption in Cloud Computing and its Cryptanalysis", Proceedings of International Conference on Robotics and Automation (IETEICRA-2016), organized by The Institution of Electronics and Telecommunication Engineers, Thiruvananthapuram Centre, Trivandrum, Feb. 19-21, 2016.
4. J. Mahalakshmi and Kuppusamy K, (2016),, "An efficient Image Encryption method based on Improved Cipher Block Chaining in Cloud Computing as a Security Service", Proceedings of First International Conference on Recent Trends and Challenges in Computational Models (ICRTCCM-16), organized by Dept of Computer Science and Engineering, University College of Engineering, Tindivanam, Feb. 11-13, 2016.
5. J. Mahalakshmi and Kuppusamy K, (2016), "Security-as-a-Service" for Files in Cloud Computing – A Novel Application Model", Proceedings of 10<sup>th</sup> International Conference on Intelligent Systems and Control (ISCO'16), organized by Dept of Information Technology, Karpagam College of Engineering, Coimbatore, Jan. 7-8, 2016, pp 353-357.
6. S.Murugan and Kuppusamy K, (2015), "Unmanned Systems-Malware Attack by Using IIMDPS", Proceedings of International Conference on Innovations in Computer Science and Information Technology (ICICSIT-2015), organized by Department of

Information Technology, MGIT, Hyderabad, August 28-29,2015, ISBN: 975-83-85100-08-6, pp 172-176.

7. J. Mahalakshmi and Kuppusamy K, (2015), "A Block Cipher based Cryptographic Algorithm to enhance the Data Security", Proceedings of International Conference on Advances in Applied Engineering and Technology (ICAAET-2015), organized by Dept of Electronics and communications, Syed Ammal Engineering College, Keelakkarai, Ramanathapuram, May 14-16, 2015.
8. K.C.Chandrasekar and Kuppusamy, K, (2015), "Block Truncation Code and Discrete Cosine Transform in Biometric Images", Proceedings of International Conference on Computing and Intelligent Systems (ICCIS-2015), organized by PG & Research Dept. of Computer Science and Applications, D.G. Vyshnav College, Chennai 600 106, March 19~21, 2015.
9. Kuppusamy, K, and Thamodaran K, (2013), "PSO Based Optimized Security Scheme for Image Authentication and Tamper Proofing", Proceedings of Third International Conference on Computer Science, Engineering & Applications (ICCSEA 2013), organized by AIRCC, May 24~26, 2013, Delhi, India. (ISBN : 978-1-921987-13-7), pp 143-152
10. K. Mahesh and K. Kuppusamy, (2012), "A new hybrid algorithm for video segmentation", ***Proceedings in Springerlink Advances in Computer Science, Engineering & Application Computer of Second International Conference on Computer Science, Engineering and Applications (ICCSEA 2012) May 2012*** Volume 166, DOI: 10.1007/978-3-642-301575.
11. A.M.Hema and Kuppusamy, K, (2012) "Trust based access control scheme for pervasive computing environment" International Conference on Recent Trends in Information Technology (ICRTIT) organized by Anna University, Chennai, Tamilnadu, April 19-21, 2012.
12. Kuppusamy, K, and Thamodaran K, (2012), "Optimized Image Watermarking Scheme based on PSO", ***Proceedings of ELSEVIER - International Conference on Modeling Optimization and Computing (ICMOAC-2012)*** organized by Noorul Islam University, Thukkalai, Tamilnadu, India, April 10-11 2012.
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