

**Dr.S.KANNAN**

Professor, Department of Computer Applications  
 School of Information Technology, Madurai Kamaraj University  
 Madurai – 625021 Tamil Nadu

Email: kannan.dca@mkuniversity.org (off)

skannanmku@gmail.com (personal)

Phone: ..... (Off); 8248039075(Mobile)

[MKU web page link of the faculty](#)

[Scopus link if available](#)

[Vidwan link if available](#)

**1. Personal Details**

Date of Birth & Age : 31-05-1965 & 57  
 Gender & Marital Status : Male & Married  
 Community : MBC  
 Nationality : Indian  
 Place of Birth : Thiruthangal

**2. Educational Qualifications****2.1. Academic**

Degree/ Examination	Name of the Exam	University/ Institute	Year of Passing	Percentage/ Grade	Main Subject
Under Graduate	BSc/BA/BCom etc. Degree	Madurai Kamaraj University	1985	75.7	Physics
Teacher Education	BEEd / MEd				
Post Graduate	MSc/MA/MCom etc. Degree	Madurai Kamaraj University	1987	70.67	Physics
Post Graduate	MSc/MA/MCom etc. Degree	Madurai Kamaraj University	1996	78.7	Computer Science
PG Diploma	PBDCSA	Madurai Kamaraj University	1988	78.3	Computer Science & Applications
NET	CSIR-UGC/ NET/ NET-LS				

*\*Add additional rows for other academic degrees obtained / remove if not necessary*

**2.2. Research**

Degree	Name of the University	Title of the Thesis	Date of Submission	Date of Award
PhD	Madurai Kamaraj University	An Integration of Association Rules and	02-07-2010	09-11- 2010

		Classification – An Empirical Analysis		
MPhil	MononmaniamSundaranar University	A Study and Analysis of Filter/Convolution Back Projection Algorithm – An Object Oriented Approach	25-08-2003	May 2003
DSc/DLitt				

### 3. Post-Doctoral/ Research Associate / Industrial Experience

Name of the University / Institute / Industry	Period of Work	Nature of Work

### 4. Professional Experience

No	Name of the University / Institution	Position Held	From (Date)	To (Date)
1	Madurai Kamaraj University	Lecturer/Programmer	20-09-1993	19-09-1999
2	Madurai Kamaraj University	Lecturer Senior Scale	20-09-1999	19-09-2004
3	Madurai Kamaraj University	Lecturer Selection Grade	20-09-2004	19-09-2007
4	Madurai Kamaraj University	Associate Professor	20-09-2007	9-11-2010
5	Madurai Kamaraj University	Professor	10-11-2010	Till date

### 5. Teaching(List all the courses taught (semester-wise) – MPhil, PG and UG)

No	Year	Semester	Course Code	Course Title	Hours per Week
1	2022-23	I		Open	3+6 hours
2	2022-23	III	DCA	Internet of Things, OST Lab	3 hours

\*Add additional rows

### 6. Design/Development of New Curricula and Courses

No	Description	Organization for which it was Developed	Level(PG/UG)
1	Designed syllabus for MCA	Madurai Kamaraj University	PG
2	Designed syllabus for BCA, MCA, PGDCA and diploma computer courses	DDE, Madurai Kamaraj University	UG and PG
3	BOS for BCA, MCA, B.Sc(CS),	Various Autonomous	UG and PG

	M.Sc(CS) and Diploma courses	Colleges and Universities	
--	------------------------------	---------------------------	--

## 7. Creation of ICT Mediated Teaching-Learning Pedagogy

### 7.1. SWAYAM / MOOCs

No	Description	Organization for which it was Developed	Level(PG/UG)

### 7.2. E-Contents

No	Description	Organization for which it was Developed	Level(PG/UG)
	PPTs for all semester courses such as Data Structures and Algorithms Python BigData Analytics Computer Networks Network Securities Network Programming	Madurai Kamaraj University	PG

### 7.3. Development of other ICT Mediated Teaching-Learning Pedagogy

No	Description	Organization for which it was Developed	Level(PG/UG)
	Real Time hands on demonstration for language courses such as Python	Madurai Kamaraj University	PG

## 8. Research Specialization / Field of Research (Give in bullet points)

- Data Science
- Image Processing
- Natural Language Processing
- Computer Networks

## 9. Research Publications

Type	International	National
Papers Published in UGC-CARE Listed Journals		
Papers in Refereed Journals (Not mentioned above)	42	2
Books Published		2
Books Edited		
Contributions to Book Chapters		
Editor of Conference/Seminar Proceedings		
Papers Published in Conference/Seminar Proceedings	13	26
Papers Presented in Conferences/Seminars		
Conference/Seminar/Workshop Attended		12
Deposits in CCDC, PDB, etc.		

## 10. Citation Metrics

Cumulative Impact Factor (Recent Annual JCR)	
Total Citations (Scopus/Web of Science)	446(google)
h-Index (Scopus/Web of Science)	8(google)
g-Index (Scopus/Web of Science)	
i10 Index (Scopus/Web of Science)	7(google)

## 11. Details of Patents

## 12. Research Guidance/Supervision

Degree / Programme	Completed	Submitted	Ongoing
PhD (Full-time)			2
PhD (Part-time)	6+2	3	4
MPhil Research Project (Full-time)	22		
MPhil Research Project (Part-time)	58		
MSc Projects/Dissertation	50		
MSc Internships/Summer or Winter Projects			3

## 13. Funded Research Projects

### 13.1. Ongoing

No	Title of the Project	Funding Agency	Period / Duration	Total Grants Sanctioned (Rs)
	Centre of Excellence for Computational Intelligence and Artificial Intelligence	RUSA 2.0	2022-2024	36 Lakhs

### 13.2 Completed

No	Title of the Project	Funding Agency	Duration and Month & Year of Completion	Total Grants Received (Rs)	No of Papers out of Project

## 14. Reviewer in Journals (List of Journals and Total No of Articles Reviewed)

Name of the Journal	Publisher	No of Papers Reviewed
ANJAC Journal of Science (ISSN : 0972 – 6012)”	AyyaNadarJanakiAmmal College, Sivakasi	8
Elsevier international journal “Information Sciences”	Elsevier	2
Hindawi international journal “Security and Communicatin Networks”	Hindawi	1

## 15. Research Collaborations

Name of the Collaborator	Institute	Collaboration Details

## 16. Countries Visited

Name of the Country	Period	Purpose

### 17. Honours / Awards / Recognitions

Name of the Honours / Awards / Recognition	Awarding Agency	International / National / State / Institute Level

### 18. Conferences / Seminars / Workshops Organized

Level	Conference Title	Date(s)	Place	Role Played	Funding

### 19. Invited Lectures / Resource Person

No	Institute / Organizer	Name of the Conference / Seminar / Workshop	International / National / State / Institute Level	Date(s)
1	AyyaNadarJanakiAmmalCollege, Sivakasi	Delivered a Invited special lecture in Seminar	Institute Level	10-01-2012
2	AyyaNadarJanakiAmmalCollege, Sivakasi	Delivered a special lecture under Staff Development Programme on Research for the faculty members of Computer Science	Institute Level	16-03-2013
3	Academic Staff College, MK University	Delivered lecture for Refresher Course in Library and Information Science on 12-02-2014.	National Level	12-02-2014
4	Thiagarajar College, Madurai	Delivered a Guest lecture in state level Seminar on Open Source Technology organized on 24-02-2014.	/ State Level	24-02-2014
5	Cardamom Planters' Association College, Bodinayakanur	Given a Key Note Address for the state level Seminar on 6 <sup>th</sup> March 2014.	/ State Level	06-03-2014
6	S.VellaichamyNadar College, Madurai	Delivered a guest lecture in the state level Seminar Com Pro-14 on 04-09-2014.	/ State Level	04-09-2014
7	Cardamom Planters' Association College, Badinayakanur	Delivered a talk in the UGC sponsored one day workshop Explore-2015 on 10-08-2015.	/ State Level	10-08-2015
8	Cardamom Planters' Association College, Bodinayakanur	Delivered a technical lecture in the UGC sponsored State level one day Workshop on Big Data Analytics (BDA-2016) on 4 <sup>th</sup> October 2016.	/ State Level	04-10-2016

### 20. Professional Development Programs / Faculty Development Programs Organized

Name of the Program	Role	Place	Date(s)	Funds in Rs&Sponsor

### 21. Professional Development Programs / Faculty Development Programs Attended

<b>Name of the Program</b>	<b>Place</b>	<b>Date(s)</b>	<b>Sponsor</b>
Orientation Course	Madurai	17-02-1999 to 16-03-1999	M.K.University
Refresher Course: Quantitative Research	Ghandigramam	24-05-2001 to 13-06-2001	G.R.I. Deemed University
Refresher Course-2: Computer Science	New Delhi	12-08-2002 to 06-09-2002	J.N.University
Refresher Course-3: Computer Science	Coimbatore	08-03-2005 to 28-03-2005	Bharathiar University
EDUSAT Training: Remote Sensing Geographical Information and Global Positioning System-Phase I	Department of Geography, Madurai	25-08-2008 to 20-11-2008	Indian Institute of Remote Sensing, Department of Space, Government of India
EDUSAT Training : Remote Sensing Geographical Information and Global Positioning System-Phase II	Department of Geography, Madurai	12-08-2009 to 30-10-2009	Indian Institute of Remote Sensing, Department of Space, Government of India
International Workshop on Advanced Data Structures and Algorithms	Patiala	4-15 June 2012	(IEEE, ACM SIGACT, Imfosys) Thapar University, Patiala
Workshop on Industry Trends in Computer Science & IT	Pune	2-6 December 2013	IBM Pune Labs, Pune 5 days (1 week)
DST sponsored Workshop on Big Data Analytics	Chennai	March 2016	Hindustan University, Chennai 10 days
DST sponsored Workshop on Big Data Analytics	Vellore	20-29 June 2016	Vellore Institute of Technology - 10 days

## 22. Administrative Experiences

<b>Role Played</b>	<b>Responsibilities</b>	<b>Period (from ... to)</b>
<b>Course In-Charge</b> for Conducting PGDCA for BC/MBC students supported by <b>Backward Classes Department of Tamil Nadu</b>	For conducting seminars, practical training and examination and other related activities such as stipend issuing etc.	1998- 2000
Served as DDE CS <b>Faculty In-Charge</b>	For allocating classes and practical training and examination and other departmental activities	1998- 2000
Member – <b>Technical advisory committee</b>	Supporting for the study of office functionalities to implement	2002

for computerization of DDE.	computerization	
Served as MCA II year and Calendar-MCA Coordinator	For doing academic activities such as collecting internal marks, fixing resource persons, conducting practical training, solving student's grievances and so on.	1999-2010
Acted as University <b>Add. Chief Superintendent</b> for conducting B.Ed.(NS) Examinations	for conducting B.Ed.(NS) Examinations at <b>R K Samy College of Education Ramanathapuram.</b>	2-6-2008 to 7-6-2008
<b>Member</b> –UGC UPE Bandwidth monitoring committee	to improve the infrastructure of internet connectivity in University campus	2008-2009
Served as an <b>Observer</b> for conducting Practical examination	for conducting Practical examination for all Diploma and PG-Diploma courses at <b>Varanasi DDE study centre</b> from	24-07-2010 to 25-07-2010.
Served as <b>Academic Coordinator</b> for all computer science courses in DDE	to carry all academic and administrative work such as arrangement of seminars, and conduct of practical for all centers, updating syllabus and introducing new courses, arranging lesson writers, collecting internal marks, conducting public viva-voce for M.Phil. and so on.	2010- 2012

### 23. Membership in Academic Bodies (BoS, DC, External Examiner, etc.)

Name of the University / Institute / College	Type of Membership	Duration / Period
Madurai Kamaraj University	Served as <b>Chairmen</b> to the Board of Examinations for all DLP Computer Science and Application courses.	2010- 2014
Madurai Kamaraj University	Member of BOS in M.C.A. of School of IT	2014-Till date
Various Autonomous Institutions affiliated to Madurai Kamaraj University	Member of BOS for B.Sc., M.Sc., and M.C.A computer courses	2010 – Till data

### 24. Membership in Recognised Professional Bodies

Name of the Professional Body	International / National	Type of Membership

### 25. Languages Known

Languages	Read	Write	Speak
Tamil	Yes	Yes	Yes
English	Yes	Yes	Yes

**26. Competence in Computer Applications**

**27. Involvement in Extension Activities other than Academic Works**

**28. Any Other Relevant Information**



## Details of Publications

### 1. Books Published *(list with link to DOI if available)*

Author(s), or Editor(s), (Year of Publication). **Title of the Book**, (The edition other than first (if applicable)), Place of Publication, Publisher's Name

1. S.Kannan, (2010), Classification Based on Association Rules, Shanlax Publications with ISBN 978-93-80686-03-5

2. S.Kannan, (2013), Classification Based Association Rule Mining by SKOV Publications (state) with ISBN 978-81-927379-0-4

#### Example

1. Jackson, L. M. (2019). **The psychology of prejudice: From attitudes to social action** (2nd ed.). American Psychological Association.  
<https://doi.org/10.1037/0000168-000>

### 2. Books Edited *(list with link to DOI if available)*

Editor(s), (Year of Publication). **Title of the Book**, Publisher's Name

#### Example

1. Bruya, B. (Ed.). (2010). Effortless attention: A new perspective in the cognitive science of attention and action. MIT Press.  
<https://doi.org/10.7551/mitpress/9780262013840.001.0001>

### 3. Contribution to Book Chapters *(list with link to DOI if available)*

Author(s), (Year of Publication), "**Title of the Chapter**" in the Book, Author(s), or Editor(s), **Name of the Book**, (Page No). The edition other than first (if applicable), Place of Publication, Publisher's Name.

#### Example

1. Aron, L., Botella, M., & Lubart, T. (2019). "**Culinary arts: Talent and their development**". In the Book, R. F. Subotnik, P. Olszewski-Kubilius, & F. C. Worrell (Eds.), **The psychology of high performance: Developing human potential into domain-specific talent** (pp. 345–359). American Psychological Association.  
<https://doi.org/10.1037/0000120-016>

### 4. Editor of Conference/Seminar Proceedings *(list with link to DOI if available)*

Editor(s). Title of book of proceedings. Number and name of conference; date of conference; place of conference. Place of publication: publisher; date.

#### Example

1. Antonioli GE, editor. Pacemaker leads 1997. Proceedings of the 3rd International Symposium on Pacemaker Leads; 1997 Sep 11-13; Ferrara, Italy. Bologna (Italy): MonducciEditore; 1997.

## 5. Research Publications

### 5.1. UGC-CARE Listed Journals *(list with link to DOI if available/Article web page)*

Title of the Paper, Authors (Corresponding Author with a \*), **Journal Name**, **year**, **volume**, **page**.

Impact Factor:                      Citations:

Link to DOI

#### Example

1. Nickel catalyzed hydroamination reactions: An overview, Purushothaman Yamuna, Rose Mary Philip, Gopinathan Anilkumar,\* *Tetrahedron*, **2022**, *122*, 132936.  
Impact Factor: 2.388; Citations: 100;  
<https://doi.org/10.1016/j.tet.2022.132936>

**5.2. Other Refereed Journals** (Not covered above, list with link to DOI/Article web page)  
Title of the Paper, Authors (Corresponding Author with a \*), Journal Name, year, volume, page.  
Impact Factor: Citations:  
Link to DOI

**Research Papers Published in International Journals**

- 1) S. Kannan, and R. Bhaskaran, "Association Rule Pruning based on Interestingness Measures with Clustering", *International Journal of Computer Science Issues*, Vol 6, No. 1, 2009, pp 35-43. (IF: 0.242)
- 2) S. Kannan, and R. Bhaskaran, "Role of Interestingness Measures in CAR Rule Ordering for Associative Classifier: An Empirical Approach", *Journal of Computing*, Vol 2, Issue 1, January 2010, pp 8-15. (IF: 0.21)
- 3) K.Sumathi, S.Kannan, K.Nagarajan, "A New MFI Mining Algorithm with effective Pruning Mechanisms", *International Journal of Computer Applications*(0975 - 8887) Volume 41- No.6, March 2012. (IF: 0.752)
- 4) Saranya A, Dr.S.Kannan, "SPI Challenges Of Small and Medium Sized Software Companies Problems and Prospects", *International Journal of Engineering Research and Technology IJERT*, Vol 2, Issue 1, January 2013. (IF: 2.85)
- 5) A.Saranya, Dr.S.Kannan, M.Suganya, A.Sumithra, "Analyzation and Extraction of Knowledge through Model Evaluation Techniques in SPI", *International Journal of IJAIR*, Vol. 2, Issue 2, Feb 2013. (IF: 0.349)
- 6) K.Sumathi, S.Kannan, K.Nagarajan, "Discovering Maximal Frequent Item set using Association Array and Depth First Search Procedure with Effective Pruning Mechanisms", *International Journal of Computer Applications*(0975-8887) Volume 76 - No.13, August 2013. (IF: 0.752)
- 7) P.Kayal, S.Kannan, "Efficient Association Rule Mining using Fuzzy weight on Fuzzy Values", *International Journal of Scientific and Research Publications (IJSRP)*, Volume 3, Issue 10, October 2013. **ISSN: 2250-3153.** ((IF: 3.27)

<http://www.ijsrp.org/research-paper-1013/ijsrp-p2210.pdf>

- 8) K.Sumathi, S.Kannan, K.Nagarajan, “A Search Space Reduction Algorithm for Mining Maximal Frequent Itemset”, International Journal of Computer Applications(0975-8887) Volume 82 - No.9, November 2013. (IF: 0.752)
- 9) K.Sumathi, S.Kannan, K.Nagarajan, “Improving Maximal Frequent Itemset Mining for Sparse Dataset”, IFRSA International Journal of Data Warehousing & Mining, Vol 3, Issue 4, November 2013. (IF: 0.625)
- 10) S.Kannan, T.Pushparaj, “A Study on Variations of Bottlenecks in Software Testing”, International Journal of Computer Sciences and Engineering (JCSE), Volume 2, Issue 5, May 2014.(IF: 2.638), , Page No (8 -14 ), UGC J.No :63193, [https://ijcseonline.org/ijcse\\_search.php](https://ijcseonline.org/ijcse_search.php).
- 11) P.Kayal, S.Kannan, “Building Fuzzy Associative Classifier Using Fuzzy Values”, International Journal of Science & Research (IJSR), Volume 3, Issue 7, July 2014;ISSN: 2319-7064. (IF: 0.23)

<https://www.ijsr.net/archive/v3i7/MDIwMTQxMjM3MQ==.pdf>

- 12) Murugesan R, Elango C, Kannan S, “Resource Allocation in Cloud Computing with M/G/s – Queueing System”, International Journal of Advanced Research in Computer Science and Software Engineering, Volume 4, Issue 9, September 2014, pp 443-447, ISSN: 2277 128X. (IF: 2.5)
- 13) Murugesan R, Elango C, Kannan S, “Cloud Computing Networks with Poisson Arrival Process – Dynamic Resource Allocation”, IOSR Journal of Computer Engineering (IOSR-JCE) e-ISSN: 2278-0661, p-ISSN: 2278-8727, Volume 16, Issue 5, Ver. IV, September-October 2014, pp 124-129. (IF: 3.712)
- 14) Murugesan R, Elango C, Kannan S, “Resource Allocation in Cloud Computing with General Classification Time and Exponential Service (G/M/s)”, International Journal of Engineering and Computer Science ISSN: 2319-7242, Volume 3, Issue 10, October 2014, pp 8905-8910. (IF: 2.38)
- 15) Murugesan R, Elango C, Kannan S, “A Status Report on Resource Allocation in Cloud Computing using Queuing Theory”, International Journal of Advanced

Research in Computer Engineering & Technology”, Volume 3, Issue 11, November 2014, pp 3603-3608 ISSN: 2278-1323. (IF: 3.696)

- 16) Monica sushil Cynthia, S.Kannan “Cancer Recognition using Conditional Entropy based Fuzzy Classification Approach for Gene Expression Data” IJCTA, Vol 6 (1), Feb-2015, ISSN:2229-6093.(IF: 4.08)
- 17) A Saranya, S.kanann “Software Process Quality assessment in Medium Sized software Organization”, IJCS, Vol 3(1), April 2015, ISSN:2346-6600. (IF: 0.453)
- 18) Monica sushil Cynthia, S.kannan “Quad tree based multiple kernel fuzzy c-means clustering for gene expression data” , IJCTT, Vol 27(3), Sep 2015, ISSN 2231-2803. (IF: 1.494)
- 19) <<Umarani, Kannan “Comparative Analysis Of Various Sorting Methods In Kruskal Algorithm”, OPTIMA, Journal of Physical Science, ISSN:2320-4834,Sep 2015.
- 20) <<Umarani, Kannan “Comparative Analysis Of Cobit 5 And Itil In Information Security”, OPTIMA, Journal of Physical Science, ISSN:2320-4834,Sep 2015.
- 21) P.Kayal and Dr.S.Kannan,”A Partial Weighted Utility Measure for Fuzzy Association RuleMining” in Indian Journal of Science and Technology, Vol 9(10),March 2016. (Scopus, Elsevier). (IF: 1.63)  
  
<http://www.indjst.org/index.php/indjst/article/view/84989/67919>
- 22) UmaraniKannan “Bio Inspired Dynamic Routing Protocol for Wireless Sensor Network”, IJPBS, June 2016, ISSN:6299-0974. (IF: 0.274)
- 23) S Kannan T Pushparaj “ A Survey on Automatic Test Case Generation”, International Journal of Trend in Research and Development(IJTRD), Impact Factor – 3.025 (Calculated by I2 OR - 2016 ), Volume-3 , Issue-6 , ISSN: 2394-9333,<http://www.ijtrd.com/papers/IJTRD5488.pdf>, December 2016.(IF: 4.004)
- 24) Balamurugan M, and Kannan S, “Analyse the Performance of Ensemble Classifiers using Sampling Techniques”, *ICTACT Journal on Soft Computing* Vol. 6, Issue 4, July 2016. (IF: 0.787)  
  
[http://ictactjournals.in/paper/IJSC\\_Vol\\_6\\_Iss\\_4\\_paper\\_5\\_1293\\_1296.pdf](http://ictactjournals.in/paper/IJSC_Vol_6_Iss_4_paper_5_1293_1296.pdf)
- 25) P. Kayal, S.kannan “An Ensemble Classifier Adopting Random SubspaceMethod based on Fuzzy Partial Mining”, Indian Journal of Science and Technology, Volume 10 (12), DOI: 10.17485/ijst/2017/v10i12/104975, March 2017, ISSN:0974-6846. (IF: 1.63)

- 26) VairaprakashGurusamy, S.kannan, T.MariaMahajan “Cryptographic Tree and its Key Management for Securing Outsourced Data in the Cloud” in IJARCSSE International Journal of Advanced Research in Computer Science and Software Engineering, Volume 7, Issue 5 May 2017, pp-255-259 ISSN:2277128X (UGC Refereed Journal). (IF: 2.5)
- 27) VairaprakashGurusamy, S.kannan, J.ReeganPrabhu “Mining the attitude of the Social Network Users Using K-Means Clustering” in IJARCSSE International Journal of Advanced Research in Computer Science and Software Engineering, Volume 7, Issue 5 May 2017, pp-226-230 ISSN:2277128X (UGC Refereed Journal). (IF: 2.5)
- 28)VairaprakashGurusamy, S.Kannan, K.Nandhini, “Performance Analysis: Stemming Algorithm for the English Language” International Journal for Scientific Research and Development, ISSN: 2321-0613, Volume 5, Issue 5, August 2017 (UGC Refereed Journal)
- 29)E.MonicaSushil Cynthia, VairaprakashGurusamy, S.Kannan, “A Study on Computational Process in Gene Expression Data”, International Journal of Engineering and Technolgy (IJET), ISSN: 0975-4024, Volume 9, Issue 4, August 2017, DOI: 10.21817/ijet/2017/v9i4/170904018. (UGC Refereed and Scopus Indexed Journal)
- 29)T.Pushparaj, Dr.S.Kannan, “A Review: Software Security Testing”, International Journal of Computer Science and Engineering (SSRG-IJCSE), ISSN : 2348 – 8387, Volume 4 Issue 9, , September 2017Impact Factor : 1.15, Paper Id : IJCSE-V4,I9,P101,  
[http://www.internationaljournalsssrg.org/IJCSE/archive\\_details?page=Volume4-Issue9-2017](http://www.internationaljournalsssrg.org/IJCSE/archive_details?page=Volume4-Issue9-2017).
- 30)VairaprakashGurusamy, S.Kannan, K.Nandhini, “Performance Analysis: Stemming Algorithm for the Tamil Language” International Journal of Engineering and Techniques (IJET), ISSN: 2395-1303, Volume 3, Issue 5, Sep– Oct 2017. (UGC Refereed Journal)
- 31) BalamuruganMahalingam, S.Kannan, VairaprakashGurusamy, “BrutePorter: A Hybrid Approach”, International Journal of Information Technology and Computer Science (IJITCS), MECS Publisher, ISSN: 2074-9015, Accepted, Waiting for Publication (UGC Refereed and Scopus Indexed Journal) 2018
- 32)BalamuruganMahalingam, S.Kannan, VairaprakashGurusamy, “Enrichment of Ensemble Learning using k-modes Random Sampling”, ICTACT Journal of Soft Computing, ISSN: 2229-6956, Volume 8, Issue 1,October 2017, DOI:10.21917/ijsc.2017.0217 (UGC Refereed Journal)

- 33) T. Pushparaj, Dr. S. Kannan, "Creation of testbed security using Cyber-Attacks", International Journal of Computer Science and Engineering (SSRG-IJCSE), ISSN : 2348 – 8387, Volume 4 Issue 11, Impact Factor : 1.15, Paper Id : IJCSE-V4I11P102, [http://www.internationaljournalsrsg.org/IJCSE/archive\\_details?page=Volume4-Issue11-201](http://www.internationaljournalsrsg.org/IJCSE/archive_details?page=Volume4-Issue11-201), November 2017.
- 33) T. Pushparaj, Dr. S. Kannan, "Debugging and Finding the Errors in Security Testing Techniques", International Journal of Computer Trends and Technology (IJCTT), Paper Id : IJCTT-V53P103, UGC Approved journal, e-ISSN : 2231 – 2803, P-ISSN : 2349-0829, Volume 53, Number 1, Impact Factor : 2.01, <https://www.ijcttjournal.org/archives/ijctt-v53p103>, November 2017.
- 33) T. Pushparaj, Dr. S. Kannan, "An Analysis of Software Testing Security using Quality Assurance and Reliability", International Journal of Computer & Organization Trends (IJCOT), ISSN : 2249 – 2593, Volume 7-Issue 6, Paper Id : IJCOT-V7I6P301, Impact Factor : 2.93, CrossRef : 10.14445/2249-2593, <https://www.ijcotjournal.org/archive/ijcot-v7i6p301>, Nov to Dec 2017.
- 33) Vairaprakash Gurusamy, S. Kannan, K. Nandhini, "The Real Time Big Data Processing Framework: Advantages and Limitations", International Journal of Computer Science and Engineering (IJCSE), ISSN: 2347-2693, Volume 5, Issue 12, December 2017, DOI: <https://doi.org/10.26438/ijcse/v5i12.305312> (UGC Refereed and Scopus Indexed Journal)
- 34) D. Hema & Dr. S. Kannan, "Performance Study of Prevalent Feature Descriptors for Object Detection", International Journal of Computer Engineering and Applications, Volume XII, Issue I, Jan. 2018.
- 34) Vairaprakash Gurusamy, S. Kannan, K. Nandhini, "A Study on Distributed Computing Framework: Hadoop, Spark and Storm", International Journal of Computer Science and Engineering (IJCSE), ISSN: 2347-2693, March 2018. (UGC Refereed and Scopus Indexed Journal)
- 35) C. Umarani, Dr. S. Kannan, "Bio Inspired Anomaly Detection Using Network Tissue Growing Algorithm", *International Journal for Research and Development in technology* ISSN 2349-3585, March 2018.
- P. Kayal, S. Kannan, "Improved Ensemble Subspace Classifier With Higher Precedence Active Sampling on Class Association Rules", International Journal of Computer Science (IJCS), Volume 6, Issue 3, March 2018 (UGC-Journal)
- 36) C. Umarani, Dr. S. Kannan, "Malicious nodes Expulsion and clustering in WSN based on Network Tissue growing Procedure Galvanized by Immunobiology", *International Journal for Research and Development in technology*, UGC Approved, ISSN 2321-9939, April 2018.

- 37) C.Umarani,Dr.S.Kannan, "Human Immune based Intrusion detection in WSN using Swarm Tissue growing Algorithm ", *International Journal of advanced Research in computer and communication Engineering* ISSN 2278-102,1 April 2018.
- 38) D.Hema, Dr. S. Kannan, "Multi-layered Deep Convolutional Neural Network for Object detection", *Journal of Applied Science and Computations*, volume 5,issue 6,june 2018.
- 39) C.Umarani,Dr.S.Kannan, "Construction of Intrusion detection system for Wireless Sensor Networks by synthesizing Anomaly and Misuse detection techniques" in the *International Journal of Current Advanced Research, UGC Approved,ISSN:2319-6475 june2018*.
- 40) C.Umarani,Dr.S.Kannan,"Cross breed Intrusion detection system based on Immunopathology", *International Journal of Emerging technologies and innovative Research ,UGC Approved,ISSN:2349-5162 june2018*.
- 41) C.Umarani,Dr.S.Kannan, "Intrusion detection system using hybrid tissue growing algorithm for wireless Sensor network", Springer Nature, Peer-peer Networking Applications, ISSN 1936-6442,Sep-2019

### **Research Papers Published in National Journals**

1. C.Umarani,Dr.S.Kannan,Published a paper on"**Comparative Analysis of various sorting methods in kruskals algorithms**" in the *OPTIMA Journal of Physical Science*, ISSN 2320- 4834,Vol -4 sep 2015.
2. C.Umarani,Dr.S.Kannan,Published a paper on"**Network Level filtering in routers using ACL**" in the *OPTIMA Journal of Physical Science*, ISSN 2320 - 4834,Vol -4,Sep 2015
3. C.Umarani,Dr.S.Kannan,Published a paper on"**Application of Genetic Algorithm in Network Intrusion Detection**" in the *OPTIMA Journal of Physical Science*, ISSN 2320 - 4834,Vol -3 March 2015.

### **5.3. Papers Published in Conference Proceedings***(web link to proceedings if available)* Author(s), (Year of Publication), "**Title of the Paper**",Editor(s) of Conference Proceedings, *Title of the Conference Proceedings in Italics*, Location of the Conference, Date of Conference, Page No.

#### *Example*

1. Harry, B., (2016), "**Drone tourism: a study of the current and potential use of drones in hospitality and tourism**", Hay, B., Lee, D., *CAUTHE 2016: the changing landscape of tourism and hospitality: the impact of emerging markets and emerging destinations, Blue Mountains*, Sydney, 8-11 February, 1234.

## Research Papers Published in International Conferences

- 1) S. Kannan, and R. Bhaskaran, "Performance of Association Rule's Measures on CBA - An Empirical Analysis", In Proceedings of the 2<sup>nd</sup> International Conference on Data Management (ICDM-2009), Macmillan Publishers India Ltd., New Delhi, India, 2009, pp 249-257.
- 2) K. Sumathi, S. Kannan, and K.Nagarajan, "An Array Based Approach for Mining Maximal Frequent Itemsets", In Proceedings of the 2010 IEEE International Conference on Computational Intelligence and Computing Research, India, 28<sup>th</sup> and 29<sup>th</sup> December 2010, pp 470-475. ISBN: 978-1-4244-5966-7.
- 3) K.Sumathi, S.Kannan, T.Saravanan, K.Nagarajan, "A new Approach for Mining Maximal Frequent Itemset", First International Conference on Advanced Computer Technology, July 2011, JKKN College of Engineering & Technology, Komarapalayam-638183, Namakkal Dt., Tamilnadu, India.
- 4) R.Murugesan, S.Sivakumar, S.Kannan, "A Study of Grid and Cloud Computing Services", International Conference on Recent Trends in Computer Applications (ICRTICA'13), 27-28 September 2013, pp 101-108, ISBN: 978-93-81208-25-0.
- 5) K.Sumathi, S.Kannan, K.Nagarajan, "A Hybrid Approach for Mining Maximal Frequent Itemset", International conference on Design and Applications of Structures, Drives, Communicational Systems November 2013, ISBN: 978-93-80686-92-9, KLNCIT, Sivagangai.
- 6) E. Monica Sushil, S.Kannan, "Cluster Analysis for Gene-expression data", International Conference on Mining Intelligence and Knowledge Exploration MIKE 2013, December 18-20, 2013, VHNSN College, Virudhunagar, TamilNadu, India.
- 7) C.Umarani,Dr.S.Kannan,Published a paper on "Analysis of Network security using authentication and cryptographic techniques" in the International Conference on Engineering, Science, Management and Advances in Research Technology *Organised by TJohn Institute of Technology on May 2015.*
- 8) C.Umarani,Dr.S.Kannan,Published a paper on "A study on RSA algorithm as a Defensive security Mechanism" in the International Conference on Engineering, Science, Management and Advances in Research Technology *Organised by TJohn Institute of Technology on May 2015.*
- 9) C.Umarani,Dr.S.Kannan,Published a paper on "A study on Detection and Exploitation of Injection flaws in Database servers" in the International Conference on Engineering, Science, Management and Advances in Research Technology *Organised by TJohn Institute of Technology on May 2016.*



- 10) C.Umarani, Dr.S.Kannan, Published a paper on “Sensing Jamming attack in Cognitive Radio Wireless sensor Networks” in the International Conference on Engineering, Science, Management and Advances in Research Technology *Organised by TJohn Institute of Technology on May 2016*.
- 11) Balamurugan M, Kannan S, “Performance analysis of cart and C5.0 using sampling techniques”, International Conference on Advances in Computer Applications (ICACA), 2016. Pages: 72 - 75, DOI: [10.1109/ICACA.2016.7887926](https://doi.org/10.1109/ICACA.2016.7887926)
- 12) P.Kayal and Dr.S.Kannan,, “Improved Fuzzy Ensemble Classifier Using Tree Bagging on weighted utility mining” in *International Conference on Innovations & Sustainable Development in Sciences, Management & Technology (ICI-SDSMT-2017)*, Raipur.
- 13) K Sumathi, S. Kannan “data mining for Big data”, Fourth International Conference on Design and Applications of Structure, Drives, Communicational and Computing system, KLNCIT, ISBN:978-1-944171-34-6

### **Research Papers Published in National Conferences**

- 1) S. Kannan and M. Ramaswami, “Knowledge Mining: An Effective Tool for Enhancing Library Resource Usage”, National Seminar on Digital Libraries in Distance Education: Myths and Realities, M.K.University, Madurai, 27-28 August 2007.
- 2) S. Kannan, and R. Bhaskaran, "Evaluation of Attribute Selection Methods with Supervised Classification: A Case Study for Students Database", In Proceedings of the National Conference on Intelligent Computing Models (NCICM-2008), Narosa Publishing House Pvt. Ltd., New Delhi, India, 2009, pp 46-53.
- 3) S. Kannan and R. Bhaskaran, “An Empirical Analysis of Standard Pruning of CARs for CBA – A Case Study Approach”, National Conference on Computer Science and Applications”, MepcoSchlenk Engineering College, Sivakasi, India, 12<sup>th</sup> March 2008.
- 4) S. Kannan and R. Bhaskaran, “Analysis of Different Measures with the Efficiency of CARs for CBA – An Empirical Study”, National Conference on Advances in Applied Technologies conducted by Kalasalingam University, Krishnankoil, India, 14-15 March 2008.

- 5) K. Sumathi and S. Kannan, "Maximal Frequent Itemsets Mining Algorithms – A Survey", In Proceedings of the National Conference on Emerging Trends in Information & Communication Technology (NCETICT-2011), KLN College of Information Technology, Pottapalayam, Tamil Nadu, India, 25-26 March 2011.
- 6) S Kannan and C Umarani, "Genetic Algorithm and its implementation in Network Intrusion Detection" 3<sup>rd</sup> National conference on Recent Advances in Technology Engineering" Bangalore, 26<sup>th</sup> march 2014
- 7) C.Umarani, S.Kannan, "Fuzzy Neural Networks with GA for Network Intrusion Detection System", National conference on Communication & Image Processing – NCCIP-14, 9<sup>th</sup> May 2014, Bangalore.
- 8) Murugesan R, Elango C, Kannan S, "Dynamic Resource allocation for Bag of Tasks with Poisson Arrival Process: Cloud Computing", National Seminar on Innovations in Intelligent Systems, N.S.S. College, Rajakumari, Kerala, India, July 2014.
- 9) Murugesan R, Elango C, Kannan S, "G/M/s-Queueing Model for Resource Allocation in Cloud Computing", UGC Sponsored National Conference on Mathematical Modelling (NCOMM'14), CPA College, Bodinayakanur, Tamil Nadu, India, September 2014, pp 22-29, ISBN: 978-93-80657-44-8.
- 10) K.Sumathi, S.Kannan and R.Nagarajan, "Maximal Frequent Itemset Mining using Breadth-First Search with Efficient Pruning", In Proceedings of the National Conference on Recent Trends and Research Issues in Computer Science RTRICS 2014), C P A College, Bodinayakanur, Tamil Nadu, India, 9-10 October 2014.
- 11) R.Murugesan, C.Elango and S.Kannan, "An Efficient Resource Management for Distributed System", In Proceedings of the National Conference on Recent Trends and Research Issues in Computer Science (RTRICS 2014), C P A College, Bodinayakanur, Tamil Nadu, India, 9-10 October 2014, pp 19-24, ISBN:978-93-80657-74-5.
- 12) S.Kannan and VairaprakashGurusamy, "Preprocessing Techniques for Text Mining", In Proceedings of the National Conference on Recent Trends and Research Issues in Computer Science RTRICS 2014), C P A College, Bodinayakanur, Tamil Nadu, India, 9-10 October 2014.

- 13) S.Kannan, G.Nalini and VariraprakashGurusamy, "Review on Image Segmentation Techniques", In Proceedings of the National Conference on Recent Trends and Research Issues in Computer Science RTRICS 2014), C P A College, Bodinayakanur, Tamil Nadu, India, 9-10 October 2014.
- 14) S.Kannan, and L.DelphinSahaya Rani, "Content based Image Retrieval Techniques", In Proceedings of the National Conference on Recent Trends and Research Issues in Computer Science RTRICS 2014), C P A College, Bodinayakanur, Tamil Nadu, India, 9-10 October 2014.
- 15) S.Kannan and N.Poongodi, "Analysis on Edge Detection Methods", In Proceedings of the National Conference on Recent Trends and Research Issues in Computer Science RTRICS 2014), C P A College, Bodinayakanur, Tamil Nadu, India, 9-10 October 2014.
- 16) S.Kannan and VairaprakashGurusamy, "A Survey on Distributed Data Mining", In Proceedings of the National Conference on Recent Trends and Research Issues in Computer Science RTRICS 2014), C P A College, Bodinayakanur, Tamil Nadu, India, 9-10 October 2014.
- 17) C.Umarani, Dr.S.Kannan, "E-commerce application and network security threats", National Conference *Organised by TIMS on Dec 2014.*
- 18) C.Umarani,Dr.S.Kannan, "Comparative study of various sorting techniques in kruskals", National Conference *Organised by Garden City College on 18 Mar 2015.*
- 19) C.Umarani,Dr.S.Kannan, "A study on Symmetric key Encryption Algorithm", National Conference *Organised by Garden city College on 18 Mar 2015*
- 20) C.Umarani, Dr.S.Kannan,"Comparative Analysis COBIT 5 and ITIL in information security", National Conference *Organised by Garden City College on 29 sep 2015.*
- 21) C.Umarani,Dr.S.Kannan, "Network Level filtering in routers using ACL", National Conference *Organised by Garden City College on 29 sep 2015.*
- 22) C.Umarani, Dr.S.Kannan,"A study of COBIT 5 Principles as a Holistic approach in information Security" National Conference *Organised by TIMS on 11 Dec 2015.*
- 23) C.Umarani, Dr.S.Kannan, "Optimization of Risk level & Resource using COBIT &ITIL ", National Conference *Organised by TJIT on 11 Dec 2015.*

- 24) C.Umarani, Dr.S.Kannan, “Network Intrusion Detection with wireshark network sniffing tool” , National Conference *Organised by New Horizon College on 18 Mar 2016*.
- 25) C.Umarani, Dr.S.Kannan, “Efficient Security Mechanism for SQL Injection Attacks in Wireless Network”, National Conference *Organised by Dirajlal Gandhi College on 16 Apr 2016*.
- 26) R.Murugesan, Dr.S.Sivakumar and Dr.S.Kannan, “A study of grid and cloud computing services”, ICRTiCA’13: International conference on Recent trends in Computer Applications 27th and 28th September 2013, Pages 101-108, ISBN: 978-93-81288-25-0.

#### **5.4. Papers Presented in Conferences / Seminars***(List under the following sub-heads)*

##### *5.4.1. International*

1. **Author(s), (Corresponding Author with \*), Title of the Paper, Conference Name, Location of the Conference, Date of Conference**

##### *5.4.2. International held within India*

1. **Author(s), (Corresponding Author with \*), Title of the Paper, Conference Name, Location of the Conference, Date of Conference**

##### *5.4.3. National*

1. **Author(s), (Corresponding Author with \*), Title of the Paper, Conference Name, Location of the Conference, Date of Conference**

##### *5.4.4. State*

1. **Author(s), (Corresponding Author with \*), Title of the Paper, Conference Name, Location of the Conference, Date of Conference**

#### **Research Papers Presented in National Conferences/Seminar**

- 1) S. Kannan and M. Ramaswami, “Knowledge Mining: An Effective Tool for Enhancing Library Resource Usage”, National Seminar on Digital Libraries in Distance Education: Myths and Realities, M.K.University, Madurai, 27-28 August 2007.
- 2) Murugesan R, Elango C, Kannan S, “Dynamic Resource allocation for Bag of Tasks with Poisson Arrival Process: Cloud Computing”, National Seminar on Innovations in Intelligent Systems, N.S.S. College, Rajakumari, Kerala, India, July 2014.

#### **5.5. Any Other Publications Not Mentioned Above**

## 6. Conferences / Seminars / Workshops / Webinars Attended

1. Author, Name of the Conference/Seminar/Workshop/Webinar, Organizer, Place where held, Date(s)

Attended Workshop on Object Oriented Technology -- Amirta Institute of Advanced Computing on 8 October 1999

Attended UGC Workshop on Advanced Computer Methods for Statisticians -- School of Mathematics, M.K. University on 13-14 Feb, 2003

Attended Workshop on LATEX – a Mathematical Document preparation System -- Dept. Applied Mathematics and Statistics, School of Mathematics, M.K. University on March 24, 2003

Attended Seminar on Current Trends in Biostatistics -- Dept. Applied Mathematics and Statistics, School of Mathematics, M.K. University on October 1, 2003

Attended UGC-DSA Conference on Nonlinear Waves and Diffusion -- School of Mathematics, M.K. University on 12-13 November, 2003

Attended Soft Skill program of the “Training for the Trainers” 18-20 Sep 2008

Attended two day workshop on Preparation of SIM Material 7-8 Dec 2009 - DDE, M.K. University on 7-8 Dec 2009

Attended two day workshop on SIM Material and On-line Lessons on 21-22 December 2010 - DDE, M.K. University on 21 & 22 December 2010

Attended UGC-SAP-DRS Seminar on Emerging Frontiers in Geomatic Applications –EMFROG 2011 -- School of Earth and Atmospheric Sciences, M.K. University on 21-22, March, 2011

Attended Workshop on Multimedia I/O Technologies -- Dream Zone, School of Creative Studies, Madurai on 15-02-2014

Attended National Conference on SMART SUMMIT – 2016 (Science, Medicine, Agri, Research & Techn) -- Peral – A Foundation for Educational Excellence, Madurai on 10 December 2016

Attended Workshop on Intellectual Property Rights and Innovation Management in Knowledge Era -- Internal Quality Assurance Cell, M.K. University on April 10, 2017

SNo.	Duration	Type of Activities performed
1	8 October 1999	Workshop on Object Oriented Technology -- Amirta Institute of Advanced Computing
2	13-14 Feb, 2003	UGC Workshop on Advanced Computer Methods for Statisticians -- School of Mathematics, M.K. University
3	March 24, 2003	Workshop on LATEX – a Mathematical Document preparation System -- Dept. Applied Mathematics and Statistics, School of Mathematics, M.K. University
4	October 1, 2003	Seminar on Current Trends in Biostatistics -- Dept. Applied Mathematics and Statistics, School of Mathematics, M.K. University
5	12-13 November, 2003	UGC-DSA Conference on Nonlinear Waves and Diffusion -- School of Mathematics, M.K. University
6.	18-20 Sep 2008	Attended Soft Skill program of the “Training for the Trainers” 18-20 Sep 2008
7.	7-8 Dec 2009	Attended two day workshop on Preparation of SIM Material 7-8 Dec 2009 - DDE, M.K. University
8.	21 & 22	Attended two day workshop on SIM Material and On-line Lessons on 21-22

	December 2010	December 2010 - DDE, M.K.University
9	21-22, March, 2011	AttendedUGC-SAP-DRS Seminar on Emerging Frontiers in Geomatic Applications –EMFROG 2011 -- School of Earth and Atmospheric Sciences, M.K.University
10	15-02-2014	AttendedWorkshop on Multimedia I/O Technologies -- Dream Zone, School of Creative Studies, Madurai
11	10 December 2016	AttendedNational Conference on SMART SUMMIT – 2016 (Science, Medicine, Agri, Research &Techn) -- Peral – A Foundation for Educational Excellence, Madurai
12	April 10, 2017	AttendedWorkshop on Intellectual Property Rights and Innovation Management in Knowledge Era -- Internal Quality Assurance Cell, M.K.University

### 7. Details of Deposits in CCDC, PDB, etc.

No	Name of Deposit	Reference No.	Date of Deposition

**Note: Kindly fill in the overall data; After filling delete all the examples and instructions.**