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8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D.	NIT, Trichy	2007		Data Mining
M.E.	Bharathidasan University, Trichy	1992	I	Computer Science
M.C.A.	Bharathidasan University, Trichy	1988	I	Computer Applications
B.Sc.,	Bharathidasan University, Trichy	1986	I	Computer Science
H.Sc.,	Board of Higher Secondary Examination, Tamil Nadu	1983	I	Maths, Physics, Chemistry, Biology
S.S.L.C.	Board of Secondary Education, Tamil Nadu	1981	I	Tamil, English, Maths, Science, History & Geography

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Head of the Department	Computer Applications	2012	2015
MIS Chairman	Institution	2014	Till Date
Member, Board of Governors, NITT	Institution	2009	2011
Dy. Controller of Examinations	Institution		

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Member, Technical Expert Committee	TEQIP – Phase II	2009	
Member, BoS	Anna University, Chennai	2015	

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2014	Distinguished Alumni Serving Faculty Award	NIT, Trichy

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12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

13. Details of Academic Work

Curriculum Development: Proposed a new course **M.Tech. Data Analytics**
 Started new course **M.Sc. Computer Science**
 CA835-Multicore Programming and GPGPU Programming
 CA733 Cloud Computing
 CAS7B1 GPGPU Programming

(i) Courses taught at Postgraduate and Undergraduate levels :

Data Base Management Systems
 Programming with C
 Operating Systems
 Data Mining Techniques
 Big Data Analytics
 GPGPU Computing

(ii) Projects guided at Postgraduate level :

On an average of 8 MCA/MSc/M.Tech. Student Projects/year

(iii) Other contribution(s) :

Established High Performance Computing Lab, Big Data Analytics Lab
 Principal Investigator - NVidia-CUDA Teaching Centre

14. Details of Major R&D Projects: ***

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

*** **Co-Developer** for the Pedagogical Course Development of Computer Science and Engineering Course “**Operating Systems**” Sponsored by MHRD under National Mission Project on Education Thorough ICT. Status: Completed

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15. Number of **PhDs guided**: 3

Name of the PhD Scholar	Title of PhD Thesis	Role	Year of Award
Ms. R. Chithra	A study on Enhanced High Utility Itemset Mining	Supervisor	2013
Ms. R. Eswari	Performance Enhancement of Scheduling Algorithms for Distributed Computing Systems	Supervisor	2014
Ms. N. Gayathri	Investigations on Feature Selection and Software Defect Prediction	Supervisor	2014

16. **Participation** in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc.

Date (s)	Title of Activity	Level of Event	Role	Event Organized by	Venue
15/11/1997 to 17/11/1997	Workshop on MIS for RECs	National	Participant	R.E.C., Warangal	Warangal
20/11/2000 to 2/12/2000	Component Based Object Technology	National	Participant	PSG Collge of Technology	PSG, Coimbatore
21/22/2002 to 2/2/2002	High Speed Networks	National	Participant	School of CSE	Anna University, Chennai
16/2/2004 to 27/2/2004	e-Business and Enterprise-wide Inf. Systems	National	Participant	NIT	Trichy
22/3/2004 to 2/4/2004	Recent Trends in Data Warehousing and Data Mining	National	Participant	NIT, Warangal	Warangal
20/12/2004 to 31/12/2004	Emerging Trends in CAD/CAM – Theory and Practice	National	Participant	NIT	Trichy
20/1/2005 to 22/1/2005	Train the Trainer Workshop	National	Participant	Infosys & Pondicherry Engg. College	Pondicherry
10/1/2006 to 14/1/2006	Soft Computing Tools, Simulation and Applications	National	Participant	ISI	Kolkatta

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3/3/2006 to 4/3/2006	Faculty Training Programme	National	Participant	Accenture India Delivery Centre	Chennai
29/1/2007 to 2/2/2007	MCDP on Knowledge Management	National	Participant	NIT	Trichy
12/3/2007 to 16/3/2007	Train the Trainer Programme	National	Participant	NIT, Trichy	IITM, Chennai
29/11/2007 to 30/11/2007	MATLAB and its Applications	National	Participant	National Inst. Of Technical Teachers Training & Research,	Chennai.
12/2/2008 to 15/2/2008	Oracle Database Administration	National	Participant	Engineering Staff College of India	Hyderabad
8/8/2008 to 10/8/2008	Algorithms	National	Participant	Dept. of Maths and Dept. of Comp. Applns	NIT, Trichy
24/8/2010	National Conference on Advanced Computing	National	Resource Person	D.J.Academy of Managerial Excellence	Coimbatore
17/12/2010	Refresher Course in Computer Science	National	Resource Person	UGC-Academic Staff College, Bharathidasan University	Trichy
28/1/2011 & 29/1/2011	National Workshop on Research Tools in Computer Science	National	Resource Person	Bishop Heber College	Trichy
12/3/2011	FDP on “Orientation Program on Research in Computer Science	National	Resource Person	SRM University, Kattankulathur	Chennai
23/03/2011 to 25/03/2011	Pilot phase of Procurement Management System	National	Participant	NPIU, Noida & The World Bank, College of Engg.	Pune

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19/9/2011	Seminar on Emerging Trends in IT	National	Resource Person	Thassim Beevi Abdul Kader College for women	Kilakkarai
8/8/2012 to 10/8/2012	Indo-US workshop on Cloud Computing and Web Services	National	Participant	Coimbatore Institute of Technology	Coimbatore
9/5/2013 to 10/5/2013	Perspectives on Curriculum	Local	Participant	NIT	Trichy
23/9/2014	Workshop on Web based Student, Faculty and Staff Satisfaction Survey	Regional	Participant	State Project Facilitation Unit – Karnataka	M.S.Ramaiah Instt. Of Technology, Bangalore
28/4/2015 to 29/4/2015	Conclave on Academic Reforms	National	Participant	NIT	Trichy
25/5/2015 to 30/4/2015	ISTE-SSTP on Introduction to Design of Algorithms	National	Participant	IIT, Kharagpur	NIT, Trichy
18/12/2015	Big Data Analytics	National Conference	Invited Speaker	Gandhigram Rural Institute – Deemed University,	Gandhigram Dindigul
7/1/2016	Big Data Analytics	International Conference	Invited Speaker	Women Christian College	Chennai
19/2/2016	Data Mining	National Workshop	Resource Person	Anna University	Trichy
4/4/2016	Data Mining & Its Applications	Research Week 2016	Resource Person	Gujarat Technological University	Ahmedabad
12/11/2016	Orientation Program on NBA	National	Participant	IITM	Chennai

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17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/
Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue
Workshop on Data Analytics and Data Mining	National	14/3/2008 & 15/3/2008	Co-ordinator	NIT, Trichy
Seminar on "Research Issues and Challenges in Social Network Computing"	National	4/5/2012	Co-ordinator	NIT, Trichy
Seminar on "Data Management on Cloud Computing Platforms"	National	1/8/2012	Co-ordinator	NIT, Trichy
FDP on Data Mining and Data Analysis	National	10/3/2014 to 14/3/2014	Co-ordinator	NIT, Trichy
Workshop on Big Data Analytics	National	12-12-2014 & 13-12-2014	Co-ordinator	NIT, Trichy
ORACLE Training	Local	Dec. 2014	Co-ordinator	BHEL, Trichy
Conference on Big Data and Cloud Computing	National	20/03/2015 & 21/03/2015	Organising Chair	NIT, Trichy
Workshop on Big Data Analytics : Tools and Techniques	National	8/6/2015 to 12/6/2015	Co-ordinator	NIT, Trichy
Big Data Analytics	Local	11/4/2016	Organiser	NIT, Trichy
DST Sponsored Workshop on Data Science Research	National	3/11/2016 to 5/11/2016	Co-ordinator	NIT, Trichy

18. Invited Talks delivered

Topic	Date	Inviting Organization
Web Mining	18.09.2009	Kings College of Engineering, Punalkulam
Research Areas and Tools in Data Mining	31/3/2011	Dept. of Computer Science, Bharathidasan University
Web Mining	8/6/2011	Jayaram College of Engineering, Thuraiyur
Data mining and Its Tools	27/6/2011	The Kavery College of Engineering, Mecheri, Salem
Data Mining and Its Applications	4/2/2013	St.Joseph's College, Trichy

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19. **Membership** of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	MISTE	LM 30238, 2001
Life Member	MCSI	00170956, 1/2/2000
Life Member	MIE	M-140368-5, 19/10/2009
Member	IACSIT	80342476

20. **Academic Foreign Visits**

Country	Duration of Visit	Programme
Singapore	May, 28-30, 2007	International Conference on Manufacturing Automation (ICMA '07)
Bali, Indonesia	May 24-25, 2012	3 rd International Conference on Soft Computing, Intelligent System and Information Technology, (ICSIT '12)
London, UK	May, 15-25, 2014	UKIERI Project on “Preparing Graduates for Business Life”

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page no.	Year	Impact Factor of the Journal
Sarojini, B, Ramaraj,N, Nickolas, S.	Feature Selection Using F-Score on Classification of TYPE II Diabetes Databases	Journal of Advanced Research in Computer Engineering	Vol 3, No. 1	1-6	2009	
Ilango, P, Hemalatha, T. Nickolas, S.	A Semi Supervised Clustering by λ _cut for Imputation of missing Data in TYPE II Diabetes Databases	Indian Journal of Medical Informatics	Vol 4, No. 1		2009	

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Ilango, P, Hemalatha, T. Nickolas, S. , Poonkuntran Shanmugam,	Imputation of Missing Data :A Semi Supervised Clustering Methodology	Journal of information Science and Technology	Vol 6, No. 3	38-55	2009	
Sarojini, B, Ramaraj,N, Nickolas, S.	Feature Subset Selection using Nomogram in TYPE II Diabetes Databases	Indian Journal Of Medical Informatics	Vol 4, No. 1	1-5	2009	
N.Gayatri, S.Nickolas , A.V.Reddy	Performance Analysis and Enhancement of Software Quality Metrics using Decision Tree based Feature Extraction	International journal of Recent Trends in Engineering	Vol 2, No. 4	54-56	2009	
R.Chithra, S.Nickolas	A Novel Algorithm for Mining Hybrid- Dimensional Association Rules	International journal of Computer Applications	Vol 2, No. 16	62-69	2010	
R.Chithra, S.Nickolas	Partition Based High Utility Itemset Mining	Intl. J. of Decision Making in Supply Chain and Logistics	Vol 1, No. 2	153- 165	2010	
R.Eswari, S.Nickolas	A Level-wise Priority Based Task Scheduling for Heterogeneous Systems	Intl. J. of Information and Education Technology	Vol.1, No.5	371- 376	2011	
R.Chithra, S.Nickolas	HUPT-Mine : An efficient algorithm for high utility pattern mining	Intl. J. of Business and Systems Research	Vol.6, No.3	279- 275	2012	

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R.Eswari, S.Nickolas	Efficient Task Scheduling for Heterogeneous Distributed Systems using Firefly Algorithm	Intl. J. of Computer Science and Engineering	Vol. 11, No. 2	132-142	2015	
S.Karthikeyan, P.Asokan, S.Nickolas , T.Page	Solving Flexible Job Shop Scheduling Problems with a hybrid PSO Algorithm and Data Mining-An Attribute oriented approach	Intl. J.of Manufacturing Technology and Management	Vol. 26, No.1/ 2/3/4	81-103	2012	
Anandkumar P. S.Nickolas	Significance of One-Class Classification in Outlier Detection	International Journal of Computational Intelligence and Information Security IJCIIS	Vol. 4, No. 6	4-14	2013	
S.Karthikeyan, P.Asokan, S.Nickolas	A hybrid discrete firefly algorithm for multi-objective flexible job shop scheduling problem with limited resource constraints	The International Journal of Advanced Manufacturing Technology	Vol. 72, No. 9	1567-1579	2014	1.568
N.Gayatri, S.Nickolas , A.V.Reddy	A Frame Work for Business Defect Predictions in Mobiles	International Journal of Computer Applications	Vol.81 , No. 1	39-44	2013	
R.Eswari, S.Nickolas , Michael Arock	A path priority-based task scheduling algorithm for herterogenous distributed systems	Int.J.Communi cation Networks and Distributed Systems	Vol. 12, No. 2	183-201	2014	

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R.Eswari, S.Nickolas	Effective task scheduling for herterogenous distributed systems using firefly algorithm	International Journal of Computational Science and Engineering	Vol 11, No . 2	132-142	2015	
Anandkumar P. Nickolas , S.	Metaheuristic algorithms and probabilistic behaviour: a comprehensive analysis of Ant Colony Optimization and its variants	Artificial Intelligence Review	Vol. 45, No. 1	97-130	2016	2.111
M.Chandrasekaran, P.Asokan, S.Kumanan, T.Balamurugan, S.Nickolas	Solving job shop scheduling problems using Artificial Immune System	International Journal of Advanced Manufacturing Technology	Vol.31 , No.1	580-593	2006	1.568
S.Nickolas , C.S.P.Rao , A.V.Reddy, P Asokan	Performance Enhancement of Flow Shop Scheduling using Data Mining	Journal of Advanced Manufacturing Technology	Vol. 6, No. 8	17-23	2007	
Ilango, P, Hemalatha, T. Nickolas, S.	Imputation of Missing Data Using Weight Based Clustering in type II diabetes Databases	Journal of Advanced Research in Computer Engineering	Vol. 3, No. 1	99-104	2009	
Arish Pitchai, AV Reddy, Nickolas S.	Fuzzy based Quantum Genetic Algorithm for Project Team Formation	International Journal of Intelligent Information Technologies	Vol. 12, No. 1	31-46	2016	
Thiruselvan S, Nickolas S.	Application based brokering algorithm for optimal resource provisioning in multiple heterogeneous clouds	Vietnam Journal of Computer Science	Vol. 3, No. 1	57-70	2016	
Thiruselvan S, Nickolas S.	Cloud service evaluation and selection using fuzzy hybrid MCDM approach in marketplace	International Journal of Fuzzy System Applications	Vol. 2, No. 8	118-153	2016	

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S Karthikeyan, P Asokan, S Nickolas , Tom Page	A hybrid discrete firefly algorithm for solving multi-objective flexible job shop scheduling problems	International Journal of Bio-Inspired Computation	Vol. 7, No. 6	386-401	2015	1.538
R. Eswari, S. Nickolas	Modified Multi-Objective Firefly Algorithm for Task Scheduling Problem on Heterogeneous Systems	International Journal of Bio-Inspired Computation			2016	1.538
Arish Pitchai, AV Reddy, Nickolas S.	Quantum walk algorithm to compute subgame perfect equilibrium in finite two-player sequential games	International Journal of Mathematical Sciences and Computing	Vol. 3, No. 1	32-40	2016	

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
S.Nickolas , A.V.Reddy	A Hyper Heuristic based Data Mining for scheduling Batch Processing Flow Shop	International Conference on Manufacturing Automation (ICMA07)			National University of Singapore, Singapore	2007
S. Nickolas , K Mani	Associative Rule Mining of Amino Acids in Protein Sequence	2nd Intl. Conference on Intelligent Systems and Control			KCE, Coimbatore	2008
Sarajini, B, Ramaraj,N, Nickolas, S. , Rita Samikannu	Feature Subset Selection using SVM-RFE in Breast Cancer Dataset	Proceedings of International Conference on Mathematics and Computer Science, ICMCS2008			Loyola College, Chennai	2008
Sarajini, B, Ramaraj,N, Nickolas, S. , Rita Samikannu	SVM Ranking with Backward Search for Feature Selection in TYPE II Diabetes Databases	IEEE International Conference on Systems, Man and Cybernetics				2008

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Ilango, P, Hemalatha,T. Nickolas, S., Rita Samikannu	Enhancing the Quality of Diagnosis in HealthCare Industries By Imputation of Missing Data using Data Mining	International Conference on Supply Chain Management and Information Systems			Trichy	2008
Ilango, P, Hemalatha,T. Nickolas, S.	Imputation of Missing Data using Clusters in TYPE II Diabetes Databases	Procd. of the Intl. Conf. on Mathematics Computer Sci.,ICMCS2008			Loyola College, Chennai	2008
Sarojini, B, Ramaraj,N, Nickolas, S.	Feature Selection for Enhancing the Quality Diagnosis in Health Care Industries using Data Mining	Intl. Conference on Supply Chain Management and Information Systems			Trichy	2008
Ilango, P, Hemalatha,T. Nickolas, S., Sarojini BalaKrishnan	A Semi Supervised Approach for Imputation of Missing Data in Medical Databases for Effective Decision Making	6 th Annual Conference on Information Science, Technology and Management(CI STM)			New Delhi	2008
R.Chithra, S.Nickolas	Clustering Prostate Cancer Dataset using K Modes and K Population Algorithms	International Conference on Digital Factory, ICDF 2008			Coimbatore	2008
Sarojini, B, Ramaraj,N, Nickolas, S., Rita S.	Feature Selection using FCBF in TYPE II Diabetes Databases	7 th Annual Conference on Information Science, Tech. & Management			New Delhi	2009
Ilango, P, Hemalatha,T. Nickolas, S.	A Multi Layered Perceptron Method for Imputation of Missing Data in TYPE II Diabetes Databases	7 th Annual Conference on Information Science, Technology & Management			New Delhi	2009
Ilango, P, Hemalatha,T. Nickolas, S.	Genetic Chromo Dynamic Framework for Imputation of Missing Data in TYPE II Diabetes Databases	International Conference on IT			Thailand	2009
N.Gayatri, S.Nickolas, A.V.Reddy, R.Chitra	Performance Analysis of Data Mining Algorithms for Software Quality Prediction	International Conference on Advances in Recent Technologies in Communication and Computing, ARTCom'09			Kerala, India	2009

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N.Gayatri, S.Nickolas , A.V.Reddy, R.Chitra	Feature Selection using Decision Tree Induction in Class level Metrics Dataset for software Defect Predictions	International Conference on Computer Science and Applications, WCECS2010			San Francisco, USA	2010
R. Eswari, S. Nickolas	Path-Based Heuristic Task Scheduling Algorithm for Heterogenous Distributed Computing Systems	Second International Conference on Advances in Recent Technologies in Communications and Computing (ARTCom'10)			Kerala, India	2010
R.Chithra, S.Nickolas	An Efficient High Utility Itemset Mining from Conditional Pattern Base	International Conference on Information and Communication Technology			Coimbatore	2010
R.Chithra, S.Nickolas	A conditional Tree based Novel Algorithm for High Utility Itemset Mining	EEE- International Conference on Recent Trends in Information Technology, ICRTIT-2011			Anna University, Chennai	2011
R. Eswari, S. Nickolas	Expected Completion Time Based Scheduling Algorithm for Heterogeneous Processors	Intl. Conf. on Information Communication and Management, IPCSIT			Singapore	2011
R. Eswari, S. Nickolas	Firefly Algorithm for Static Task Scheduling Problem	3 rd Intl. Conf. on Soft Computing, Intelligent Systems and Information Technology			Bali, Indonesia	2012
R.Chithra, S.Nickolas	Scalable Algorithm for High Utility Itemset Mining	3 rd Intl. Conf. on Soft Computing, Intelligent Systems and Information Technology			Bali, Indonesia	2012

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R. Eswari, S. Nickolas	Solving Multi-Objective Task Scheduling for Heterogeneous Distributed Systems using Firefly Algorithm	4 th Intl. Conf. on Advances in Recent Technologies in Communication and Computing, ARTCom'12			Bangalore	2012
Arish, P., S.Nickolas	K μ RB:Kernel Micro Reboot Mechanism	4 th Intl. Conf. on Advances in Recent Technologies in Communication and Computing, ARTCom'12			Bangalore	2012
Thiruselvan.S, Nickolas.S	A Study on Optimized Resource on Provisioning in Federated Cloud	International Conference on Computing Cybernetics and Information System			VIT, Vellore	2013
Anandkumar P Nickolas.S	Metaheuristic Algorithms and Polynomial Turing Reductions:Case Study Based on Ant Colony Optimization	ICICT 2014			Kerela, India	2014
Arish Pitchai, AV Reddy, Nickolas S	Quantum walk based Genetic Algorithm for 0-1 Quadratic Knapsack Problem	Proceedings of the Intl. Conference on Computing and Network Communications , IEEE			India	2015
S.Tajvar Furzana, Nickolas, S.	Framework for Aspect Extraction and Root Cause Analysis Based on STA	Intl. Conference on Advancements in Computing and Communication Technologies			Anna University, Trichy-24	2015
P.Asokan, S.Nickolas	CAD/CAM solutions for CNC machining/turning center	Eighth ISME conference on mechanical engineering			New Delhi	1993
P.Ramaraj, S.Nickolas	A descriptive study on data mining and Algorithm for multi-dimensional association	All India seminar on IT for 21st century			India	1997

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R.Chithra, S.Nickolas	High Utility Itemset Mining based on Clustering	National Conference on Advanced Pattern Mining and Multimedia Computing (APM MC 10)			NITT, India	2010
N.Gayatri, S.Nickolas, A.V.Reddy	Comparative Study of Software Quality Metrics Feature Set Using Data mining Techniques	National Conference on Advanced Pattern Mining and Multimedia Computing (APM MC 10)			NITT, India	2010

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number