

Curriculum Vitae



Brief Profile: 1-2 paragraphs (not exceeding 500 words)

Dr. S. Nickolas, is working as Professor in the Department of Computer Applications with 33 years of experience in NIT, Trichy. He completed his M.E. (Computer Science) from R.E.C. (now NIT), Trichy in the year 1992 and Ph.D. in the year 2007 from NITT. His area of research interest includes Machine Learning, Deep Learning, Data Mining, Big Data Analytics, Cloud Computing and Software Metrics. He is the Principal Investigator of the CUDA-NVIDIA Teaching Centre of the Institute for the year 2013-'16, sponsored by NVIDIA Corporation. He served as Chairman for the Institute MIS Implementation Team and as Head of the Department from 2012 to 2015. He has published 94 papers in international conferences/journals.

1. Name Dr. S. NICKOLAS
2. Designation: Professor
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5. Email (Primary): nickolas@nitt.edu Email (Secondary) : nickolasnitt@gmail.com
6. Field(s) of Specialization: Data Mining, Machine and Deep Learning, Big Data Analytics, Cloud Computing, Software Metrics.
7. Employment Profile

Job Title	Employer	From	To
Professor	Director, NIT, Trichy	12.03.2018	Till Date
Associate Professor	Director, NIT, Trichy	01.07.2010	11.03.2018
Assistant Professor	Director, NIT, Trichy	01.07.2007	30.06.2010
Senior Lecturer	Principal, REC, Trichy	19.12.2002	30.06.2007
Lecturer	Principal, REC, Trichy	18.12.1996	18.12.2002
Programmer	Principal, REC, Trichy	29.8.1988	17.12.1996

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	2018
Member, Board of Governors, NITT	Institution	2009	2011
Dy. Controller of Examinations	Institution	1996	1999

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	
Member, BoS	VIT, Vellore	2020	
Member, BoS	VMRF, Salem	2022	
Member, BoS	Pondicherry University	2022	2025
Reviewer	Frontiers in Medicine	2022	

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2014	Distinguished Alumni Serving Faculty Award	NIT, Trichy
2021	Scroll of Honour	The Institution of Engineers(India)

12. Fellowships

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

13. Details of Academic Work

(i) Curriculum Development:

Coordinator, MCA-BoS-2022

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

(ii) Courses taught at Postgraduate and Undergraduate levels:

Data Base Management Systems

Programming with C

Operating Systems

Data Mining Techniques

Big Data Analytics

GPGPU Computing

(iii) Projects guided at Postgraduate level:

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

(iv) 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
Epidemiology Data Analytics (EDA)	DST	March 2018	March 2021	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

15. Number of PhDs guided :

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award
Ms. R. Chithra	A study on Enhanced High Utility Itemset Mining	Supervisor	2013
Ms. R. Eswari	Performance Enhancement Scheduling Algorithms for Distributed Computing Systems	Supervisor	2014
Ms. N. Gayathri	Investigations on Feature Selection and Software Defect Prediction	Supervisor	2014
Mr. S. Thiruselvan	A Study of Cloud Service Evaluation and Election of Federated Cloud	Supervisor	2017
Mr. P. Arish	Quantum Walk Based Algorithms to Compute NASH and Subgame Perfect Equilibrium	Co-Guide	2017
Mr. P. Anandkumar	Enhanced Ant Colony Optimization Algorithms for Solving Static and Dynamic Travelling Salesman Problem	Supervisor	2018
Mrs. P Shanthi	Feature Extraction and Feature Fusion Method for Facial Expression Recognition	Supervisor	2020
Mrs. S. Suseela	Performance Enhancement of Wireless Multimedia Sensor Networks Using Energy Efficient Routing Algorithm	Co-Guide	2021
Mrs. K Shobha	Efficient Pre-Processing Techniques for Improving the Performance of Supervised Learning Algorithm	Supervisor	2021
Mr. C I JohnPaul	Feature Based Representational Structures for Time Series	Supervisor	2021
Mr. E. Silambarasan	Enhanced Convergent Encryption Key and Ownership Management for Secure Deduplication in Cloud	Supervisor	2021

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

Date (s)	Title of Activity	Level of Event (International / National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	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 Infn. 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
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 Unversity	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 Unversity, Kattankulathur	Chennai
23/03/2011 to 25/03/2011	Pilot phase of Procurement Management System	National	Participant	NPIU, Noida &The World Bank, College ofEngg.	Pune
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
20/07/2021	Engineering Innovations in Emerging Technologies	National	Keynote Speaker	VTU	Karnataka
15/07/2021	HR Analytics Practical Perspective using Python	National	Participant	Webminar	
23/09/2021	Refresher Course in Computer Science and Applications	National	Resource Person	UGC-Human Resource Development center , Bharathidasan University	Trichy Tamilnadu
23/02/2022 to 25/02/2022	Virtual International Conference on Computer, Communication and Signal Processing	National	Session Chair	Sri SivaSubramania Nadar College of Engineering	Tamilnadu
07/05/2022	Data Mining Concepts and Techniques	National Seminar	Resource Person	St.Joseph's College (Autonomous)	Tamilnadu

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 SocialNetwork Computing"	National	4/5/2012	Co-ordinator	NIT, Trichy
Seminar on "Data Management onCloud 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 : Toolsand 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
Big Data Analytics for a Smarter World	4/8/2021	IQAC Enabled DST , Two Days Virtual Conference

		Annamalai University
Computational Intelligence, Communication and Informatics	5/8/2021	IQAC Enabled DST , Two Days Virtual Conference Annamalai University

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, (ICSIIT '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	doi	Impact Factor
M.Chandrasekaran,P.Asokan,S.Kumaran,T.Balamurugan,S.Nickolas	Solving job shop scheduling problems using Artificial Immune System	International Journal of Advanced Manufacturing Technology	Vol.31	580 - 593	2006	https://doi.org/10.1007/s00170-005-0226-3	3.226
S.Nickolas C.S.P.Rao, A.V.Reddy and P Asokan	Performance Enhancement of Flow Shop Scheduling using Data Mining	Journal of Advanced Manufacturing Technology,	Vol.6, No.8	17-23	2007		3.320

		CMTI					
Sarojini,B, Ramaraj,NNi ckolas, S.	Feature Selection Using F-Score on Classification of TYPE II Diabetes DB	Journal of Advanced Research in Computer Engineering	Vol 3, No. 1	1-6	2009	https://doi.org/10.1145/1858378.1858391	
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		4.04
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	4.046	
N.Gayatri, S.Nickolas, A.V.Reddy	Performance Analysis and Enhancement of Software Quality Metrics using Decision Tree based Feature Extraction	Internationa l journal of Recent Trends in Engineering	Vol 2, No. 4	54-56	2009	https://doi.org/10.1109/ARTCom.2009.12	4.490
R.Chithra, S.Nickolas	A Novel Algorithm for Mining Hybrid- Dimensional AssociationRule s	Internationa l journal of Computer Application s	Vol 2, No. 16	62-69	2010	https://doi.org/10.5120/342521	3.12

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		5.6
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	https://doi.org/10.7763/ijiet.2011.v1.60	1,11
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	https://doi.org/10.1504/ijbsr.2012.047927	0.62
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	https://doi.org/10.1504/ijcse.2015.071877	1.316
S.Karthikeyan, P.Asokan, S.Nickolas,	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	https://doi.org/10.1504/ijmtm.2012.051445	0.42

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		3.2268
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	https://doi.org/10.5120/13979-1975	3.12
R.Eswari, S.Nickolas, Michael Arock	A path priority-based task scheduling algorithm for herterogenous distributed systems	Int.J.Communication Networks and Distributed Systems	Vol. 12, No. 2	183-201	2014	https://doi.org/10.1504/ijcnds.2014.059437	1.54
R.Eswari, S.Nickolas	Effective task scheduling for heterogeneous distributed systems using firefly algorithm	International Journal of Computational Science and Engineering	Vol 11, No. 2	132-142	2015	https://doi.org/10.1504/ijcse.2015.071877	1.316

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	https://doi.org/10.1007/s10462-015-9441-y	8.139
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	https://doi.org/10.1007/s00170-005-0226-3	3.226
S.Nickols, 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 provision- ing in multiple	Vietnam Journal of Computer Science	Vol. 3, No. 1	57-70	2016	https://doi.org/10.4018/IJIT.2016010102	1.44

Thiruselvan S, Nickolas S.	Cloud service evaluation and selection using fuzzy hybrid MCDM approach in	International Journal of Fuzzy System Applications	Vol. 2, No. 8	118-153	2016	https://doi.org/10.4018/IJFSA.2016040108	0.93
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	https://doi.org/10.1504/IJBIC.2015.073165	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	http://dx.doi.org/10.1504/IJBIC.2016.10002270	1.538
Arish Pitchai, AV Reddy, Nickolas S.	Quantum walk algorithm to compute subgame perfect equilibrium in finitetwo-player sequentialgames	International Journal of Mathematical Sciences and Computing	Vol. 3, No. 1	32-40	2016	http://dx.doi.org/10.5815/ijmssc.2016.03.03	0.71
R. Subraja, S. Nickolas, P. Jayabalan,	Monitoring and control systems for resources in construction sites	Int.J. of Innovation Research in Science, Engineering and Technology	Vol.5, Special issue 9	53 - 58	2016	http://dx.doi.org/10.15680/IJRSET.2016.0505509	
K. Shobha, S. Nickolas	Analysis of importance of pre-processing in prediction of hypertension	CSI Transactions on ICT	Vol.6(2),	209-214	2018	http://dx.doi.org/10.1007/s40012-018-0197-9	

M. Ramla, S. Sangeetha, S. Nickolas	Machine Learning for High Risk Pregnancies Pre-Term Birth Prediction: A Retrospective	International Journal of Engineering & Technology	Vol.7 (2.22),	.5-8	2018	http://dx.doi.org/10.14419/ijet.v7i2.22.11799	1.271
Anandkumar Prakasam, Nickolas Savarimuthu	Novel local restart strategies with hyper-populated ant colonies for dynamic optimization problems	Neural Computing and Applications	Vol.31(Suppl 1):S63-S76	S63-S76	2019	https://doi.org/10.1007/s00521-018-3638-3	5.559
C.I. Johnpaul, Munaga V.N.K. Prasad, S. Nickolas, G.R. Gangadharan	General representational automata using deep Neural Networks	Data & Knowledge Engineering	Vol.12 2	pp.159 -180	2019	https://doi.org/10.1016/j.datak.2019.06.004	1,992
P. Shanthi, S. Nickolas	Merged Local Neighborhood Difference Pattern for Facial Expression Recognition	International Journal of Innovative Technology and Exploring Engineering (IJITEE),	Volume -9 Issue-2	4133 - 4141	2019	DOI: 10.35940/ijitee.B7461.129219	0.546
S. Suseela,R. Eswari, S. Nickolas, and M. Saravanan	Poisson Based Energy Hole Prediction for Wireless Multimedia Sensor Networks	International Journal of Computational Intelligence & IoT	Vol. 2(3)	Vol. 2(3)	2019		1.736
P. Shanthi, S. Nickolas	An efficient automatic facial expression recognition using local neighborhood feature fusion	Multimedia Tools and Applications	Vol. 80 Issue 7	10187-10212	2020	https://link.springer.com/article/10.1007/s11042-020-10105-2	2.757

Silambarasan E, Nickolas S and Mary Saira Bhanu S	CECPABE: A novel approach for secure data deduplication in cloud	International Journal of Advance Science and Technology	Vol. 29, No. 10S	7958-7971	2020		0.475
Silambarasan Elkana Ebinazer, Nickolas Savarimuthu and S. Mary Saira Bhanu	ESKEA: Enhanced Symmetric Key Encryption Algorithm Based Secure Data Storage in Cloud Networks with Data Deduplication	Wireless Personal Communication	, Vol. 117	3309–3325	2020	https://link.springer.com/article/10.1007/s11277-020-07989-6	
Silambarasan Elkana Ebinazer, Nickolas Savarimuthu and S. Mary Saira Bhanu	An efficient secure data deduplication method using radix trie with bloom filter (SDD-RT-BF) in cloud environment	Peer-to-Peer Networking and Applications	Vol. 14 Issue 4	2443-2451	2020	https://link.springer.com/article/10.1007/s12083-020-00989-0	3.307
Silambarasan Elkana Ebinazer, Nickolas Savarimuthu and S. Mary Saira Bhanu	A Hybrid Encryption for Secure Data Deduplication in Cloud	International Journal of Cloud Computing			2020		1.06
Sareena Rose, S. Nickolas, S.Sangeetha	A recursive ensemble-based feature selection for multi-output models to discover patterns among the soil nutrients	Chemometrics and Intelligent Laboratory Systems	Vol 208		2020	https://doi.org/10.1016/j.chemolab.2020.104221	3.491

C.I. Johnpaul, Munaga V.N.K. Prasad, S. Nickolas, G.R. Gangadharan	Trendlets: A novel probabilistic representational structures for clustering the time series data	Expert Systems With Applications	Vol.14 5	113-119	2020	https://doi.org/10.1016/j.eswa.2019.113119	8.665
S. Suseela, R. Eswari, S. Nickolas, M. Saravanan	QoS optimization through PBMR algorithm in multipath wireless multimedia sensor networks	Peer-to-Peer Netw. Appl	Vol. 13	1248–1259	2020	https://doi.org/10.1007/s12083-019-00853-w	3.307
K. Shobha, S. Nickolas	Clustering based imputation algorithm using unsupervised neural network for enhancing the quality of healthcare data	Journal of Ambient Intelligence and Humanized Computing	Vol.12	1771–1781	2021	https://doi.org/10.1007/s12652-020-02250-1	7.104
K. Shobha, S. Nickolas	An Unsupervised Neural Network Approach for Imputation of Missing Values in Univariate Time Series Data	Concurrency and Computation: Practice and Experience			2021	DOI: 10.1002/cpe.6156	
C.I. Johnpaul, Munaga V.N.K. Prasad, S. Nickolas, G.R. Gangadharan	Representational primitives using trend based global features for time series classification	Expert Systems With Applications	Vol.16 7(11):14376,		2021	https://doi.org/10.1016/j.eswa.2020.114376	8.665
C.I. Johnpaul, Munaga V.N.K. Prasad, S. Nickolas, G.R. Gangadharan	Fuzzy representational structures for trend based analysis of time series clustering and classification	Knowledge-Based Systems	Vol. 222(7): 106991		2021	https://doi.org/10.1016/j.knsys.2021.106991	8.139

Kavitha lakshmi R, S. Nickolas	PLDD- A Deep Learning Based Plant Leaf Disease Detection	IEEE Consumer Electronics Magazine	Vol11 Issue: 3		2021	https://doi.org/10.1109/MCE.2021.3083976	4.135
Kavitha lakshmi R, S. Nickolas	DPD-DS for plant disease detection based on instance segmentation	Journal of Ambient Intelligence and Humanized Computing			2021	https://doi.org/10.1007/s12652-021-03440-1	7.104
Ankit Kumar Sah, Nickolas Savarimuthu	Automatic Video Based Perception of Legitimate Persons Using Computer Vision Techniques	Pattern Recognition and Image Analysis	Vol. 31	786–799	2021	https://doi.org/10.1134/S1054661821040192	1.244
S. Suseela, R. Eswari, S. Nickolas	A Voronoi-Ant Colony-Based Routing (VoR-Ant-R) Algorithm for WMSNs	International Journal of Swarm Intelligence Research (IJSIR)	Vol.13 (2)		2022	10.4018/IJSIR.287546	

(B)Conferences/Workshops/SymposiaProceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year	doi
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 scheduling Batch Processing Flow Shop	All India seminar on IT for 21st century Manufacturing Automation (ICMA07)			India Singapore, Singapore	1997	
S.Nickolas, K Mani	Associative Rule Mining of Amino Acids in Protein Sequence	2nd Intl. Conference on Intelligent Systems and Control			KCE, Coimbatore	2008	
Sarojini, 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	
Sarojini, 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	2688 - 2633		Singapore	2008	10.1109/ICSMC.2008.4811692

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