

National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

Curriculum Vitae

Brief Profile:

Previously, Dr. Aghila served as Registrar-in-charge of NIT Puducherry where she was Professor of Computer Science and Engineering. A PhD from Anna University, Chennai, Dr. Aghila has contributed significantly to the fields of Ontology Engineering, Cheminformatics, Block Chain, Big Data Analytics and AI.



NIT Tiruchirappalli, which is the 9th best NIRF-ranked Engineering Institute, is poised to reach greater heights under the new Director. While taking charge, she said that her priority is to make NIT Trichy more visible at the national and global levels. Dr. Aghila brings with her the wealth of a 32-year career in which she has carved a niche as both an academic and an administrator.

1.	Name	Dr. G. Aghila
2.	Designation:	Director
3.	Office Address:	Office of the Director, NIT, Tiruchirappalli-620 015.
4.	Telephone :	0431-2503002
5.	Email (Primary):	director@nitt.edu
6.	Field(s) of Specialization:	Knowledge Representation and Reasoning, Steganography, Artificial Intelligence, Semantic Web Engineering, Cheminformatics, Ontology Engineering, Block Chain, Big Data Analytics, Context Aware & Edge Computing, Smart and Secure Computing.

7. Employment Profile

Job Title	Employer	From	To
Director	NIT Tiruchirappalli	Feb 2022	Till Date
Professor	NIT- Puducherry	Aug 2013	Feb 2022
Professor	Pondicherry University	Feb 2008	Aug 2013
Professor	Pondicherry Engineering College	Oct 2005	Jan 2008
Assistant Professor	Pondicherry Engineering College	Jun 1999	Oct 2005
Lecturer	Pondicherry Engineering College	Sep 1992	Jun 1999
Lecturer	SRM Engineering College	Feb 1992	Sep 1992
Teaching Research Fellow	College of Engineering Guindy, Anna University Chennai	Jan 1989	Jan1992

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

Examination	Board / University	Year	Division/ Grade	Subjects
Ph.D	Anna University, Chennai / College of Engineering, Guindy	2004	NA	Computer Science & Engineering
M.E	Anna University, Chennai / College of Engineering, Guindy	1992	81.5 First (Distinction)	Computer Science & Engineering
B.E	Madurai Kamaraj University / Thiagarajar College of Engineering, Madurai	1988	79.8 First (Honors)	Computer Science & Engineering
PUC/+2(HSC)	State Board - Tamilnadu	1984	85.1 First	NA
SSLC/Matric or equivalent	State Board - Tamilnadu	1982	90.8 First	NA

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
Director	NIT Tiruchirappalli	Feb 2022	Till Date
Registrar (i/c)	NIT Puducherry	Nov 2019	Jan 2022
Chief Warden	NIT Puducherry	July 2018	Nov 2019
Head of Department, Dept. of CSE	NIT Puducherry	Aug 2013	May 2016
Head of Department, Dept. of CSE	Pondicherry University	May 2008	July 2009
Head of Department (i/c), Dept. of ECE	NIT Puducherry	Aug 2013	Dec 2015
Head of Department (i/c), Dept. of EEE	NIT Puducherry	Aug 2013	Dec 2015

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To
Doctoral Committee Member	Anna University – Chennai, Coimbatore, Trichy		
Doctoral Committee Member	Pondicherry University, Puducherry		
Doctoral Committee Member	Bharathiyar University, Coimbatore		
Doctoral Committee Member	Sastra University, Thanjavur		
Doctoral Committee Member	Kongu Engineering College, Perundurai		
Chairman, Board of Studies – UG/PG Courses	Pondicherry University & Affiliated Colleges	Dec 2011 (UG) 2015 (PG)	Dec 2014 (UG) 2016 (PG)
Chairman, Board of Studies (Dept. of CSE, ECE, EEE)	NIT Puducherry	2013	2022

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Member, Board of Studies	Pondicherry Engineering College & Kongu Engineering College		
Women Student Advisor – M.Sc., Integrated (Mathematics, Statistics, Computer Science)	Pondicherry University		
Chairman & Member MCA Board of Examiners	Pondicherry University		
Member – Board of Examiners – PG/Ph.D.,	Anna University, Madurai Kamaraj University, Karaikudi Alagappa University, Bharathiar University.		
Member – DDE – Twinning Programme	Pondicherry University		
Member – Faculty Selection Committee	Pondicherry University & Affiliated Colleges	2017	2019
Chairperson – Screening Committee, Non-Teaching Recruitment	NIT Puducherry	2020	2022
Member – Technical Advisory Committee	VCRC, Puducherry		
Board of Studies - Anna University Nominee, Dept. of IT	CIT Coimbatore	2020	2021

11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
1982	National Merit Scholarship Award	Government of Tamilnadu
1988	“Honors” Degree at Undergraduate Level	Madurai Kamaraj University / Thiagarajar College of Engineering, Madurai
2007	Best Schrodinger Poster Award	Indian Institute of Chemical Technology, Hyderabad

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
NOT APPLICABLE				

13. Details of Academic Work

- (i) Curriculum Development
- (ii) Courses taught at Postgraduate and Undergraduate levels
- (iii) Projects guided at Postgraduate level
- (iv) Other contribution(s)

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14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Collaborative Directed Basic Research in Smart and Secure Environment (Joint Project Investigator)	National Technical Research Organisation (NTRO)	2009	2012	Completed
Ontology based reactivity modeling system for organic chemists through a semantic structure markup method (Co-PI)	Department of Science and Technology (DST)	2010	2013	Completed
Design and development of a software to Create/ Edit Structural Fragments to be used in the Knowledge Repository of EnCOre (Consultancy work)	FUNDP (Faculté N.-D de la Paix) Chemistry department	May 2009	October 2009	Completed
A Model Ontological Library for Engineering and Basic Sciences through Knowledge Engineering (Principal Investigator)	AICTE	2004	2006	Completed
Bio-Inspired behaviors in Robotic Soccer (Co-PI)	AICTE	2007	2009	Completed

15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
K. Saruladha	Semantic Similarity Measures for Information Retrieval Systems using Ontology	Supervisor	2012
K.S.Kuppusamy	Multimodal, Web Page Modeling for Content Scoring based on Segmentation and Incremental Profile Amalgamation	Supervisor	2013
P.Thiyagarajan	Dynamic Key Based approaches for Security Amelioration in Spatial Domain Image Steganography	Supervisor	2014
P.Shanthi Bala	Revolutionized Reasoning Methodology with Semantic Relationship for Gen Revelation	Supervisor	2014
V.Uma	Temporal Knowledge Modelling for Linear Ordering of Events using Reference Hierarchy based Interval (REseT) Relations	Supervisor	2014
R.Sunitha	LeMoNAdE: Learner Context Modelling and Adaptation for E-Learning based on Socio-Constructivist Approach and Semantic Measures	Supervisor	2014

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Ajit Kumar	A Framework for Malware Detection with Static Features using Machine Learning Algorithms	Supervisor	2018
Aniruddha Kanhe	Modeling of Audio Data Hiding Techniques for Steganography and Watermarking Applications	Supervisor	2019
Siddharth R	Exploiting Data-Independent Property Of Feature Extraction in High Dimensional Data Analytics: A Random Projection Based Approach	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
	Artificial Intelligence and Robotics	National	Participant	Anna University, Chennai	Chennai
	Computers in Process control	National	Participant	Pondicherry Engineering College	Pondicherry
	Object Oriented Systems	National	Participant	Pondicherry Engineering College	Pondicherry
	Recent Trends in Diagnostic maintenance	National	Participant	Pondicherry Engineering College	Pondicherry
	Recent Trends in Advanced Materials Science	National	Participant	Pondicherry Engineering College	Pondicherry
	Networks and Computing: Industry - Academia Practices	National	Participant	Pondicherry University	Pondicherry
	IFIP, Networking - 2010	National	Participant	IITM, Chennai	Chennai

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
Refresher course on ICT Applications	National	21 days (27.5.2009 to 16.6.2009)	Co-ordinator	ASC, Pondicherry University

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National Level workshop on ' Grid Computing	National	One day (18.4.2009)	Co-ordinator	Pondicherry University
National Level workshop on ' Data mining and Data warehousing	National	Two days (25.3.2009 and 26.3.2009)	Co-ordinator	Pondicherry University
National Level workshop on ' Ontology Engineering and Cheminformatics'	National	Two days (15.12.2006 and 16.12.2006)	Co-ordinator	AICTE and DST, Pondicherry
International Conference on "Information Security	International	Three days (7.12.2005 to 9.12.2005)	Member of Editorial committee	Pondicherry Engineering College
workshop on "Multimedia and Internet Tools for content development	National	Two weeks (10.5.2001 to 24.5.2001)	Member of Organizing Committee	DCSE, College of Engineering, Anna University
workshop on "Multimedia and Internet Techniques for Effective Teaching"	National	Two days (10.2.2001 and 11.2.2001)	Member of Organizing Committee	DCSE, College of Engineering, Anna University
National Conference on Object Technology (NCOOT'98)	National	2 days	Member of Organizing Committee	Pondicherry University
Data Analytics using Python/R Programming	National	5 days Aug 2021	Co-ordinator	AICTE – ATAL FDP, NIT Puducherry

18. Invited Talks delivered

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Member	Institute of Electrical and Electronics Engineers (IEEE)	97271577
Life member	Computer Society of India (CSI)	-
Life member	Indian Society for Technical Education (ISTE)	-

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20. Academic Foreign Visits

Country	Duration of Visit	Programme
United States of America	7 Days - November 2018	Leadership for Academicians Programme (LEAP) - Stephen M Ross School of Business, University of Michigan, USA
Belgium	3 Days – September 2008	First EnCORe Meeting – University of Namur, Belgium

21. Publications

(A) Refereed Research Journals: Count: 86

Google scholar link:

https://www.google.com/url?sa=t&source=web&rct=j&url=https://scholar.google.co.in/citations%3Fuser%3DMkahlPkAAAAJ%26hl%3Den&ved=2ahUKEwidvODexpD3AhXoXWwGHXFAB6gQFnoECDYQAQ&usq=AOvVaw3ixWPfyo9jccVIY a7_Pga2

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Punnaivanam Sankar, Krief Alain, G.Aghila	Model Tool to Describe Chemical Structures in XML Format Utilizing Structural Fragments and Chemical Ontology	International Journal of Chemical Information and Modeling	Vol. 50	755–770	2010	3.882. American Chemical Society Journal
P.Sankar, G.Aghila	Ontology Aided Modeling of Organic Reaction Mechanisms with Flexible and Fragment Based XML Markup Procedures	Journal of Chemical Information and Modeling (A Journal of American Chemical Society)		1747-1762	2007	3.882
P.Sankar, G.Aghila	Design and Development of Chemical Ontologies for Reaction Representation	Journal of Chemical Information and Modeling (A Journal of American Chemical Society)	46(6)	2355-2368	2006	3.882
Thiyagarajan P, Aghila G, Prasanna Venkatesan V	Pixastic: Steganography based Anti-Phishing Browser Plug-in	Journal of Internet Banking and Commerce	Vol. 17, no. 1	ISSN: 1204-5357	Apr 2012	

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K S Kuppusamy and G Aghila	A Model for Personalized Keyword Extraction from Web Pages using Segmentation	International Journal of Computer Applications	42(4)	21-26	Mar2012	0.85
K.S.Kuppusamy, G.Aghila	MORPES: A Model For Personalized Rendering Of Web Content On Mobile Devices	International Journal in Foundations of Computer Science & Technology (IJFCST)	Vol. 2, No.2	42-51 ISSN : 1839-7662	Mar2012	
K.S.Kuppusamy, R.Senthil Raja, G.Aghila	A Model For Remote Access And Protection Of Smartphones Using Short Message Service	International Journal of Computer Science, Engineering and Information Technology(IJCSEIT)	Vol 2, No 1	ISSN : 2231 – 3117,	Feb 2012	
M.Hemalatha, V.Uma, Dr.G.Aghila	Time ontology with Reference Event basedTemporal Relations (RETR),	International Journal of Web & Semantic Technology (IJWeST)	Vol.3, No.1	0975 - 9026 (Online) 0976- 2280 (Print)	Jan 2012	
K.S.Kuppusamy, G.Aghila	A personalized web page content filtering model based on segmentation	International Journal of Information Sciences and Techniques (IJIST)	Vol.2, No.1		Jan 2012.	
K.S.Kuppusamy, G.Aghila	Segmentation Based Personalized Web Page Summarization Model	Journal of Advances in Information Technology JAIT		ISSN 1798- 2340	2012	
Thiyagarajan P, Aghila G, PrasannaVenkatesan V	Steganalysis using Color Model Conversion,	Signal and Image Processing An International Journal (SIPIJ)	Volume 2, No 4	ISSN 0976- 710x	Dec 2011	
P.ShanthiBala andG.Aghila	Relationship Based Reasoning	International Journal of Computer Application	Vol.36, No.9	ISSN : 0975- 8887	Dec 2011	0.835
V.Uma, Dr.G.Aghila	Temporal Pattern Mining and Reasoning using Reference Event	International Journal of Computer Applications	Vol.36, No.3	ISSN: (0975- 8887)	Dec 2011	

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	based Temporal Relations (RETR)					
TarunKarnwal, T. Sivakumar, G. Aghila	Cloud Services in different Cloud Deployment Models: An Overview	International Journal of Computer Applications	vol. 34, Number 8	ISSN: 0976-8491 30-36	Nov 2011	
Madhusudhana nagakumar KS and G Aghila	A Survey on Black Hole Attacks on AODV Protocol in MANET	International Journal of Computer Applications	34(5)	23-30	Nov 2011	
Amit Kumar Tyagi, G.Aghila	A Wide Scale Survey on Botnet	International Journal of Computer Applications	vol. 34, Number 8	ISSN: 0976-8491, pp10-23	Nov 2011	
Thiyagarajan P, Aghila G, PrasannaVenkatesan V	Stego-Image Generator (SIG) - Building Steganography Image Database	First International Conference on Digital Image Processing and Pattern Recognition, Springer (LNCS) in Communications in Computer and Information Science (CCIS) Series		ISSN: 1865:0929	Sep 2011.	SNIP: 0.020, SJR: 0.084
Thiyagarajan P, Aghila G, PrasannaVenkatesan V	Stepping up Internet Banking Security using Dynamic Pattern Based Image Steganography	International Conference on Advances in Computing and Communications, Springer (LNCS) in Communications in Computer and Information Science Series(CCIS)		ISSN: 1865:0929	July 2011	SNIP: 0.020, SJR: 0.084
K. Saruladha , G. Aghila , A. Bhuvaneshwary	Information Content Based Semantic Similarity Approaches for Multiple Biomedical Ontologies	International Conference on Advances in Computing and Communications, Springer (LNCS) in		ISSN: 1865:0929, pp. 327-336	July 2011	SNIP .020 SJR .084

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		Communications in Computer and Information Science Series(CCIS),				
K. Saruladha, G. Aghila , A. Bhuvanewary	Information Content Based Semantic Similarity For Cross Ontological Concepts	International Journal of Engineering Science and Technology,	Vol 3, No. 6	ISSN:0975-5462 pp. 5132-5140	Jun2011	
S.Poonguzhali, R.Sunitha, Dr. G.Aghila	Self-Healing in Dynamic Web Service Composition	International Journal on Computer Science and Engineering	Vol. 3, No. 5,	pp 2054-2060 ISSN: 0975-3397	May 2011	
R.Nithyaa, R.Sunitha, Dr. G.Aghila	Survey on Self-Adaptation in Context-Aware Systems”,	International Journal of Computational Intelligence and Information Security	Vol. 2, No.5,	ISSN: 1837-7823, pp 81-89	May 2011	
Amarnath Reddy, P.ShanthiBala and G.Aghila,	Comparison of visual Cryptographic Schemes	International Journal of Engineering Science & Technology	Vol. 03, No. 05	ISSN : 0975-5462	May 2011	
R.Shyamala, R.Sunitha, Dr. G.Aghila,	A Survey on Ontology-Based Approach for Context Modeling and Reasoning	International Journal of Computational Intelligence and Information Security	Vol. 2, No.5	ISSN: 1837-7823 pp 27-36	May 2011	
P.Poonguzhali, R.Sunitha, Dr. G. Aghila	A Survey on Recovery Techniques in Self-Healing Systems	International Journal of Computational Intelligence and Information Security	Vol. 2, No.5	ISSN: 1837-7823 pp 43-54	May 2011	
R.Shyamala, R.Sunitha, Dr. G. Aghila,	Towards Learner Model sharing Among Heterogeneous E-Learning Environments	International Journal of Engineering Science and Technology	Vol. 3, No.4	ISSN: 0975-5462 pp 2034-2040,	Apr 2011	
Ravikiran, P.ShanthiBala and G. Aghila	Securing virtual Images using Blind	International Journal of Engineering	Vol. 03, No. 04	ISSN : 0975-5462	Apr2011	

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	Authentication Protocol	Science & Technology				
K.S.Kuppusamy, G.Aghila	A Model for Web Page Usage Mining Based on Segmentation	International Journal of Computer Science and Information Technologies	Vol. 2 (3) 1144-1148	ISSN: 0975-9646	2011	
K. Saruladha , G. Aghila,A.Bhuvanewary	Computing Information Content Based Semantic Similarity for Multiple Biomedical Domain and their application to Information Retrieval on Medline	In fifth Indian International Conference on Artificial Intelligence, Tumkur, Bangalore for publication in Springer Lecture Notes in Computer Science		SNIP .020 SJR .084	2011	
K. Saruladha , G. Aghila, B. Sathiya	A Comparative Analysis of ontology and schema matching systems,Interntional journal of computer Applications		Vol 34(8)	ISSN 0975-8887 pp 14-21	2011	Impact factor 0.814 SJR 0.071
K. Saruladha , G. Aghila, B. Sathiya	A Survey of large scale schema and ontology matching techniques	Journal of computing	Vol 3 Issue 10	ISSN 2151-9617 pp 55-61	2011	Impact factor 0.21
K. Saruladha , G. Aghila,A.Bhuvanewary,	Interconcept ontology similarity-mapping of feature based similarity to information theoretic domain	International Journal on Data mining Knowledge Engineering		ISSN 0974-9683	2011	
Thiyagarajan P, Aghila G, Prasanna Venkatesan V	Dynamic Pattern Based Image Steganography	Journal of Computing	Vol 3, Issue 2	ISSN 2151-9617	Feb 2011	Impact Factor : 0.45
K.S.Kuppusamy, G.Aghila	Museum: Multidimensional Web page Segment Evaluation Model	Journal of Computing	Vol 3, Issue 3. pp.24-27,	ISSN 2151-9617		Impact Factor: 0.4
K.S.Kuppusamy, G.Aghila	Segmentation Based Approach to Dynamic Page Construction from Search Engine Results	International Journal on Computer Science and Engineering (IJCSE)	Vol. 3, No. 3, pp. 1097-1105,	ISSN : 0975-3397		

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K.S.Kuppusamy, G.Aghila,	Semantic Snippet Construction For Search Engine Results Based On Segment Evaluation	International journal of information technology and knowledge management	vol 4, no. 2, pp. 581-583,	ISSN: 0973-4414		Impact Factor : 0.47
K.S.Kuppusamy, G.Aghila,	Live-Marker: A Personalized Web Page Content Marking Tool	International Journal of Information Technology and Knowledge Management	Vol 4, No. 2, pp. 485-488,	ISSN: 0973-4414		Impact Factor : 0.47
K.S.Kuppusamy, G.Aghila	We.I.Pe: Web Identification of People using e-mail ID	International Journal on Computer Science and Engineering (IJCSE)	Vol. 3, No. 6, pp. 2310-2316,	ISSN : 0975-3397.		
K.Saruladha, G.Aghila, A.Bhuvaneshwary	A New Information Content Based Measure for Multiple Ontology and their Application to Information Retrieval and Ontology Mapping	Springer LNCS in Communications in Computer and Information Science Series (CCIS)		ISSN:1865-0929	2011	
K. Saruladha , G. Aghila , A. Bhuvaneshwary	Computation of Semantic Similarity Among Cross Ontological Concepts For Biomedical Domain	Journal of Computing International Forum for Scientists and Engineers, USA	Vol 2, Issue 8 pp. 111-118	ISSN 2151-9617	Aug 2010	Impact factor 0.45
K. Saruladha , G. Aghila , Sajina Raj	A New Semantic Similarity Metric For Solving Sparse Data Problem In Ontology based Information Retrieval System	International Journal of Computer Science Issues	Volume 7, Issue 3, No.11, pp. 40-48,	ISSN (Print)1694-0814	May 2010	Impact factor 0.242
K. Saruladha , G. Aghila , S.K. Penchala	Design of New Indexing Techniques Based on Ontology for Information Retrieval Systems	Published in Springer Lecture Notes in Communication in Computer and Information Science Series (CCIS),	Vol 101, Part 2, DOI 10.1007/978-3-642-15766-041,		2010	SNIP .020 SJR .084

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		Heidenberg, Germany, LNCS	pp. 287- 291,			
K.Vidhya,G.Aghila	Text Mining Process Technique and Tools: An Overview	International Journal of Information Technology and Knowledge Management	Vol 2, No 2 pp.613- 622		2010	
K.Vidhya, G. Aghila	A Survey of Naïve Bayes Machine Learning Approach for Text Classification	International journal of Computer Science and Information Security			2010	
Chitra, G.Aghila	Methodology Based Survey on Ontology Management	International journal on Computer Science and Engineering	Vol 1, No 1, pp.1-12	ISSN: 0976- 3252	2010	
Chitra, G.Aghila,	Determination of Heavy / Light Weight Mapping of Ontologies for Web Service Discovery	ACEEE International Journal on Communicati ons			2010	
V.Neelima, R.Sunitha, Dr. G. Aghila	A Multi Agent, Service Reassembling Architecture for Context-Aware Systems	International Journal of Recent Trends in Engineering,	Vol. 1, Issue 1. pp 563- 567.	ISSN 1797- 9617	May 2009	2 Citations
Ezhumalai, G.Aghila	Prevention of Web parameter attacks using Hirschberg Algorithm	International Journal of Secure Digital Information Age			2009	
V.Uma,P.Sankar, G.Aghila,	A multilevel semantic document classifier based on SVM Integrated with Domain Ontologies	International Journal of Convergence Information Technology	Vol 3, pg 59- 69.		Sep 2008	1 Citation
G.Aghila, T.V.Geetha	“A Model for the world knowledge representation based on NyayaTheory	Journal of IE	Vol 88, pp.17- 21.		2007	
V.Uma, G.Aghila	SVM Based Multilevel Classifier using Ontology	International Research Journal of Applied Sciences 2(4),	pp.431- 434		2007	

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G.Aghila, T.V.Geetha,	KRIL – A Knowledge Representation System Based on NyayaShastra using Extended Description Logic	International Journal of AI	Vol 16, pp-3-18		2004	
Anju Vijayan, V. Uma, G. Aghila	Frequent XML Query Caching in ebXML based Ecommerce Applications using Association Rule Mining	International Journal of Applied Information Systems (JAIS) – Foundation of Computer Science FCS, New York,	USA Volume 5– No. 5	ISSN : 2249- 0868	Apr 2013	
R.Sunitha and G.Aghila, ,	Semantic Relatedness Measures in E- learning: A study	International Journal of Computer Applications (0975 – 8887)	Vol 74– No.16		Jul 2013	
Thiyagarajan, P., Natarajan, V., Aghila, G.	et al. Pattern based 3D image Steganography. 3D Res 4, 1	https://doi.org /10.1007/3DR es.01(2013)			2013	
P.Shanthi Bala and Dr.G.Aghila	A Review On Semantic Relationship Based Applications,	International Journal in Foundations of Computer Science & Technology (IJFCST)	Vol. 3, No.2		Mar2013	
R.Sunitha and G.Aghila	LEMON : The Learning Efficiency Computation Model For Assessing Learner Context In E-Learning,	International Journal on Integrating Technology in Education (IJITE)	Vol.2, No.3		Sep 2013	
K.S.Kuppusam y, Leena Mary Francis, G.Aghila,	Report: A Model for Remote Parental Control System Using Smartphones	International Journal on Cybernetics & Informatics (IJCI)	Vol.2, No.3,		Jun 2013	
K.S. Kuppusamy, Leena Mary Francis, G. Aghila	LogMin: A Model For Call Log Mining In Mobile Devices	International Journal in Foundations of Computer Science & Technology (IJFCST)	Vol. 3, No.4		Jul 2013	

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P. Thiyagarajan, G. Aghila,	Reversible dynamic secure steganography for medical image using graph coloring, Health Policy and Technology	https://doi.org/10.1016/j.hlp.2013.05.005	Volume 2 Issue 3, 2013, Pages 151-161	ISSN 2211-8837	2013	
K.S.Kuppusamy, Leena Mary Francis, G. Aghila,	COSMOS A Context Sensitive Model For Dynamic Configuration Of Smartphones Using Multifactor Analysis	International Journal of Information Technology, Modeling and Computing (IJITMC)	Vol.1, No.3		Aug2013	
S. Shanmugapriya, K.S.Kuppusamy, G. Aghila,	BLOSEN: Blog Search Engine Based On Post Concept Clustering	International Journal of Ambient Systems and Applications (IJASA)	Vol.1, No.3,		Sep 2013	
K. S. Kuppusamy and G. Aghila	SCOPAS — semantic computation of page score	International Journal of Information Technology & Decision Making	Vol. 12, No. 06 pp. 1309-1331		2013	
V Uma, M Kalaivany, G Aghila	Survey of sequential pattern mining algorithms and an extension to time interval based mining algorithm	International Journal of Advanced Research in Computer Science and Software Engineering	3 1178-1183			
K.S. Kuppusamy, G. Aghila,	CaSePer: An efficient model for personalized web page change detection based on segmentation	Journal of King Saud University - Computer and Information Sciences	Volume 26, Issue 1, Pages 19-27	ISSN 1319-1578, https://doi.org/10.1016/j.jksuci.2013.02.001	2014	
Uma, V., Aghila, G.	Event order generation using Reference Event based qualitative Temporal (REseT) relations in Time Event Ontology.	centr.eur.j.comp.sci , 4, 12–29		https://doi.org/10.2478/s13537-014-0202-9	2014	
Thiyagarajan, P., Thandra, Prasanth	Shamir Secret Sharing Scheme with Dynamic Access	Kerntechnik	vol. 80, no. 2,	https://doi.org/10	2015	

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Kumar, Rajan, J., Satyamurthy, S. A. V. and Aghila, G.	Structure (SSSDAS): case study on nuclear power plant		pp. 150-160.	.3139/12 4.110489		
Sunitha, R., and G. Aghila.	Quantifying concept proximity based on semantic measures.	Advances in Natural and Applied Sciences	vol. 9, no. 6 SE pp. 360+	Gale Academic OneFile	June 2015	
V. Uma and G. Aghila,	Mining frequent arrangements and sequencing of events for diseases prognosis using reference event-based temporal relations	International Journal of Information and Communication Technology		ISSN: 1741-8070	2016	
P.Shanthi Bala , G.Aghila	SemPER: Semantic Relationships based Reasoning Approach	International Journal of Pure and Applied Mathematics	Vol 118 No. 8 157-163		2018	
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A Kanhe, A Gnanasekaran	Watermarking of Electronic Patient Record in Parkinson Disease Affected Speech: A Robust and Secure Audio Hiding Technique for Smart e-healthcare Application, Discontinuity, Nonlinearity, and Complexity,				2021	
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(B) Conferences/Workshops/Symposia Proceedings Count : 50

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conferen ce Theme	Venue	Year
Thiyagarajan P, Aghila G, PrasannaVenkatesa n V,	Qualitative Analysis of Dynamic Pattern based Image Steganography in providing E- Banking Security	First IDRBT Doctoral Colloquium			IDRBT (A Reserve Bank Institute),	Sep 2011.
M.Anousouya Devi, V.Uma, Dr.G.Aghila,	Temporal planning using Reference Event based Temporal Relations,	2nd International Conference on Recent Trends in Information Technology,	19-21		Indexed by IEEE Explore	April 2012
P.Kannan, P.ShanthiBala and G.Aghila,	A Comparative study of Multimedia Retrieval using ontology for semantic web	IEEE-International Conference On Advances In Engineering, Science And Management,			EGS Pillay Engineering College	March 30-31, 2012.
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P.ShanthiBala and G.Aghila	Expert System for hard Real Time Systems	Proceedings of 2nd National Conference Issues and Trends in Advanced Computing (NITAC 2010)	pp.no:397- 403.		Bannari Amman Institute of Technology	19-20 March 2010
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R.Ezumalai, G.Aghila,	Combinatorial Approach for preventing SQL Injection Attacks	IEEE International Advance Computing Conference				March 2009
B.Raghu Ram,G.Aghila,	Generalization based Associative Classification Rules Generation on fuzzy Data Cubes	IEEE International Advance Computing Conference				March 2009
P.Sai Swaroop, R.Sunitha and G.Aghila,	Hybrid Routing Protocol forSubtree- Based Tree Clustered MA	IEEE International Advance Computing Conference				March 2009

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Aghila G, Prasath S,	Metrics Based Ontology Evaluation	International Multi Conference of Engineers and Computer Scientists				Jun 2006
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Ganesh, G.Aghila, IEEE	Ontology based Web Crawler	International Conference on Information Technology: Coding and Computing,			Neveda USA	June 2004
G.Aghila, D.Manjula, T.V.Geetha	Document Knowledge Representation Using Description Logics for Information Extraction and Querying				Neveda USA	June 2003
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G.S.Mahalakshmi, G.Aghila,T.V.Geetha	Multi-level Ontology Representation Based on Indian Logic System	4th International Conference on South Asian Languages- ICOSAL			Chidambara m India	2002
G.Aghila, RanjaniParthasarathy, T.V.Geetha	Design of Conceptual Ontology Based on Nyaya theory and Tolkaappiyam	3rd International Conference on South Asian Languages,			University of Hyderabad	Jan 2001
Aghila G and Prasath S	Knowledge Management Thorough Ontology Integration for Semantic Web	International Conference on Semantic Web and Web Services			Las Vegas, USA	2001
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K. Saruladha, E. Thirumagal and G. Aghila,	Hybrid semantic similarity distance measures using conceptual contexts for geospatial information retrieval	International Conference on Recent Trends in Information Technology (ICRTIT)	pp. 26-34, doi: 10.1109/ICRTIT.2013.6844175			2013
Saruladha K., Thirumagal E.,	Manhattan Based Hybrid Semantic Similarity Algorithm for Geospatial Ontologies	: Urs S.R., Na J.C., Buchanan G. (eds) Digital Libraries: Social Media and Community Networks. ICADL 2013. Lecture Notes in Computer Science,	Arthi J., Aghila G vol 8279. Springer, Cham. https://doi.org/10.1007/978-3-319-03599-4_1			2013
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A. Kumar, K. P. Sagar, K. S. Kuppusamy and G. Aghila,	Machine learning based malware classification for Android applications using	10th International Conference on Intelligent Systems and Control (ISCO),	pp. 1-6, doi: 10.1109/ISCO.2016.7726949.			2016

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V. Uma, L. M. Nikhila, and G. Aghila..	RaTeR: Search Plugin supporting Temporal Operators based Information Retrieval.	Proceedings of the International Conference on Informatics and Analytics (ICIA-16).	Article 10, 1–6. DOI: https://doi.org/10.1145/2980258.2980288		Association for Computing Machinery, New York, NY, USA	2016
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Niriksha T.K., Aghila G..	Knowledge Graphs in Recommender Systems	In: Suma V., Chen J.IZ., Baig Z., Wang H. (eds) Inventive Systems and Control. Lecture Notes in Networks and Systems,	vol 204. Springer, Singapore. https://doi.org/10.1007/978-981-16-1395-1_1			2021
M. N. Noorshidha and G. Aghila	Convalescent Plasma Therapy: Data driven approach for finding the Best Plasma Donors, 2021	International Conference on Artificial Intelligence and Smart Systems (ICAIS), 2021	pp. 432-439, doi: 10.1109/ICAIS50930.2021.9396012.			
S Hemachandiran, G Aghila, R Siddharth	Automation to Find Adulteration in Downstream Petroleum Monitoring Using Machine Learning: An Overview	Recent Advances in Manufacturing, Automation, Design and Energy Technologies, Lecture Notes in Mechanical Engineering	DOI: https://doi.org/10.1007/978-981-16-4222-7_48 Springer, 415-423			2022

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(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number
V Nivethitha, G Aghila	Opportunistic Edge Computing Architecture for Smart Healthcare Systems	IGI Global	2021	
Kommu Narendra and G. Aghila	Securing Online Bank's Big Data Through Block Chain Technology: Cross-Border Transactions Security and Tracking	IGI Global	2020	
Siddharth Ravindran, G Aghila	A Privacy-Preserving Feature Extraction Method for Big Data Analytics Based on Data-Independent Reusable Projection	IGI Global	2019	

Detail of patents

S.No.	Patent Title	Name of applicant(s)	Patent No.	Award date	Agency/ Country	Status
1.	SYSTEM FOR STORAGE REDUCTION IN CLOUD BASED VIDEO SURVEILLANCE AND METHOD THEREOF	G. Aghila and R. Siddharth	408227	24.09.2020	India	Granted