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

Curriculum Vitae

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

1. Name: A. Venkataswamy Reddy
2. Designation: Professor
3. Office Address: Dept. of Computer Applications, N. I. T. Tiruchirappalli, 620015
4. Telephone: 9443781597 (P)

   Mobile: 9486001163 (O)
5. Email (Primary): reddy@nitt.edu
6. Field(s) of Specialization: Algorithms, Computer Networks, Operating Systems, Data Mining

7. Employment Profile

Job Title	Employer	From	To
Lecturer	NIT Trichy	1985	1992
Assistant Professor	NIT Trichy	1992	2007
Professor	NIT Trichy	2007	present

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

Examination	Board / University	Year	Division/ Grade	Subjects
B.Sc.E.d	Mysore University	1976		Mathematics
M.Sc.E.d	Mysore University	1979		Mathematics
M.E	Bharathidasan University	1992		Computer Science
Ph.D	IISc., Bangalore	1985		Applied Mathematics

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
HoD	Computer Applications	2005	2009
Chief Warden	Hostels	2012	2015
Dean	Students' Welfare	2015	present

10. Details of Academic Work

   (i) Curriculum Development
   - Member of Board of Studies of Various Universities/Institutes.
   - Introduced new courses at the UG and PG levels in the Institute through periodical curriculum revisions

   (ii) Courses taught at Postgraduate and Undergraduate levels
   - Data structures and Algorithms
   - Operating Systems
   - Computer Networks
   - Computer Organization and Architecture

   (iii)Projects guided at Postgraduate level
   - MCA – 100 projects
   - MSc(OR&CA) – 50 projects
   - MSc(CS) – 5

   (iv)Other contribution(s)
   - Doctoral Research Evaluator for Various Universities and Institutes

11. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award
Dr. S. Nickolas	Application of Data Mining Techniques in Industrial Scheduling Problems	Supervisor	2007
Dr. Jaidhar C. D.	Studies on Variable Length Packet Switching in Combined Input Crossbar Queue Switch and its successor CICQ-VCQ	Supervisor	2008

Dr. N. Vetrivelan	Impact and Analysis of Novel Mobility Models in MANET and WiMax Environments	Supervisor	2011
Dr. B. Janet	Cube Index Model for Information Retrieval and Mining	Supervisor	2012

12. 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
22/12/2006	Research Directions in IT and Applications	National	Participant	NIT Trichy	Trichy
25/01/2008	Introduction to Simulating Complex Predictive System and Bayesian Modeling in Image Processing	National	Participant	NIT Trichy	Trichy
01/02/2008 To 02/02/2008	Trends in Bioinformatics	National	Participant	NIT Trichy	Trichy
21/02/2008	Non-Linear Control Systems	National	Participant	NIT Trichy	Trichy
06/12/2012 to 07/12/2012	Conference on Frontiers in Applied Science and Computer Technology	National	Chairperson	NIT Trichy	Trichy

29/01/2015	TCS-ion Learning Exchange	National	Participant	NIT Trichy	Trichy
28/04/2015 to 29/04/2015	Conclave on Academic Reforms	National	Participant	NIT Trichy	Trichy
08/12/2008 to 10/12/2008	Supply Chain Management and Information Systems	International	Participant	NIT Trichy	Trichy
02/11/2008 to 04/11/2008	The Seven Habits of Highly Effective People Training Program	National	Participant	Franklin Covey	Trichy
17/09/2007 to 18/09/2007	Workshop on Computational Fluid Dynamics	National	Participant	NIT Trichy	Trichy
03/03/2006 to 04/03/2006	Faculty Training Program	National	Participant	Accenture	Chennai
05/01/2006 to 07/01/2006	Preparing for Challenges Ahead	National	Participant	Administrative Staff College of India	Hyderabad

13. 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
Mobile and Pervasive Computing	National	04/08/2007	Co-coordinator	NIT Trichy
Midlet Technologies for Mobile and Interactive devices	National	26/12/2007 to 30/12/2007	Co-coordinator	NIT Trichy
Algorithms	National	08/08/2007 to 10/08/2007	Co-coordinator	NIT Trichy

14. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	Indian Society for Technical Education	LM 12430 / 1992

15. Publications

 (A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
Jaidhar C. D., A. V. Reddy	Efficient Variable Length Block Transfer mechanism with Combined Input Crossbar Queue Switch	International Journal of Computers, Communications and Control	2(3)	268-278	2007	
Jaidhar C. D., A. V. Reddy	Variable Length Packets Switching using Novel Combined Input Crossbar Queue Switch with Virtual Crossbar Queues	International Journal of Computer Science and Engineering Systems	1(2)		2007	
Jaidhar C. D., A. V. Reddy	Performance Evaluation of Novel Combined Input Crossbar Queue Switch with Virtual Crossbar Queues	International Journal of Computer Science and Engineering Systems	1(3)		2007	

Vetrivelan N, A.V.Reddy	Analysing the Mobility and Protocol Performance in MANET using Novel Move Stop Deviate model	International Journal of Computer Applications	8(11)	1-6	2010	
Vetrivelan N A.V.Reddy	Designing Implementing Novel Scenario Models and Performance Analysis of Wireless Routing Protocol under Mobile WiMax Environments	International Journal of Computer Science and Security				
Vetrivelan N, A.V.Reddy	Performance Comparison of two Wireless Protocols in WiMax Environment	International Jounal of Emerging Technologies and Applications in Engineering, Technology and Sciences	2(2)	808-812	2009	-
Vetrivelan N, A.V.Reddy	The Design and Implementation of a Novel Skew Scenario Model in Mobile Ad Hoc Networks	Journal of Computer Science	6(7)	817-822	2010	-
Vetrivelan N, A.V.Reddy	Impact and Performance of Analysis of Mobility Models on Stressful Mobile WiMax Environments	International Journal of Computer and Network Security	2(2)	57-64	2010	-
Michael Arock, U Srinivasulu	A Parallel Combinatorial Algorithm for	International Journal of Bioinformatic	6(3)	260-269	2010	-

Reddy, A.V.Reddy	subtle Motifs	s Research and Applications				
Michael Arock, U Srinivasulu Reddy, A.V.Reddy	Planted (I,d)-Motif Finding using Particle Swarm Optimization	International Journal of Computer Applicatoins	Special Issue on ECOT	51-56	2010	-
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	6(8)	17-23	2007	
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	2(4)	54-56	2009	-
Gayatri, N., Nickolas, S, A.V.Reddy	A Frame Work for Business Defect Predictions in Mobiles	International Journal of Computer Applications	81(1)	1-7	2013	-
Arish P, A.V.Reddy , Nickolas S	Quantum Walk Algorithms to Compute Subgame Perfect Equilibrium in Finite Two-player Sequential Games	International Journal of Mathematical Sciences and Computing	2(3)	32-40	2016	-
Arish P, A.V.Reddy , Nickolas S	Fuzzy based Quantum Genetic Algorithm for Project Team Formation	International Journal of Intelligent Information Technologies	12(1)	31-45	2016	-
Janet B. and A.V. Reddy	Index Model for Image Retrieval using	Intelligent Information and Database	6 (3)	289-306	2012	(IF - 3) (SCOPUS)

	SIFT Distortion	Systems				
Janet B., A.V. Reddy and S. Domnic	Locally Global Codebook for Image Retrieval and Clustering using Vector Quantization	ICTACT Journal On Image And Video Processing	2 (4)	397-404	2012	ICV - 5.09
Janet B. and A.V. Reddy	Cube Index: A Text Index Model for Retrieval and Mining	IJCA	9 (20)	192-330	2010	http://www.ijcaonl ine. org/archives/ number9/
Janet B. and A.V. Reddy	Wordpair Index: A Nextword Index Structure for Phrase Retrieval	Special Issue of IJRTE	3 (2)	147-149	2010	URI: http://www.search dl.org/index.php/j ournalclient/ viewthispaper/6/6/ 15/131
Janet B. and A.V. Reddy	Cube Index for Text and Image Information Retrieval and Mining	Advances in Computing	1(1)	1-7	2011	DOI: 10.5923/j.ac.2011 0101.01
Janet B. and A.V. Reddy	A Study on the Effect of Codebook and Codevector Size on Image Retrieval Using Vector Quantization	Computer Science and Engineering	1(1)	1-7	2011	DOI: 10. 5923/j.computer. 20110101.01

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
Jaidhar C. D., A. V. Reddy	Design Issues of High Performance Switch	International Conference on Man-Machine Systems			Malaysia	2006
Jaidhar C. D., A. V.	Fair Scheduling	International Conference on	74-77		India	2007

Reddy	Algorithm for Combined Input Crossbar Queue (CICQ) Switch	Advanced Computing and Communication				
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
Vetrivelan N, A.V.Reddy	Rural Connectivity Through WiMax – A Prospective Approach	Rural ICT Development Conference			University Utara Malaysia	2007
Vetrivelan N, A.V.Reddy	Services of Data transferring and Video conferencing to rural villages through Broadband wireless access with WiMax	International Conference on Information and Technology	755-759		Deharadun	2007
Vetrivelan N, A.V.Reddy	Performance Analysis of Three Routing Protocols for Varying MANET Size	International MultiConference of Engineers and Computer Scientists	1178-1182		Hong Kong	2008
Vetrivelan N, A.V.Reddy	Analysis of MANET Protocols and Comparison	International Conference on Advanced Computing	414-419		Bharathidasan University Technology Park	2009

	of Routing Load in Two Different Scenarios					
Vetrivelan N, A.V.Reddy	Modeling and analyzing a novel Restricted Angle Scenario model in MANET	TENCON IEEE Region 10 Conference	21-24		Japan	2010
U Srinivasulu Reddy, Michael Arock, A.V.Reddy	Particle Swarm Optimization Based Motif Finding	Asia Pacific Bioinformatics Conference		Bioinformatics	IISC, Bangalore	2010
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
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	2009
N.Gayatri, S.Nickolas, A.V.Reddy	Comparative Study of Software Quality Metrics Feature Set Using Data	National Conference on Advanced Pattern Mining and Multimedia Computing(APMMC 10)			NITT, India	2010

	mining Techniques						
Gayatri N, Nickolas S, A.V.Reddy	ANOVA Discriminant Analysis for Features Selected through Decision Tree Induction Method	4th International Conference, ObCom	61-70	Global Trends in Computing and Communication Systems	Vellore	2012
U Srinivasulu Reddy, Michael Arock, A.V.Reddy	Finding Gapped Motifs with variable length gaps in unaligned DNA sequences using Particle Swarm Optimization Technique	5th International Conference on Bioinformatics and Computational Biology	19-24	Bioinformatics	USA	2013
U Srinivasulu Reddy, Michael Arock, A.V.Reddy	A Particle Swarm Optimization solution for Challenging Planted (I,d)-Motif Problem	IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology	222-229	Bioinformatics	Singapore	2013
Arish P, A.V.Reddy, Nickolas S	Quantum Walk based genetic algorithm for 0-1 quadratic knapsack problem	IEEE International Conference on Computing and Network Communications	283-287		Technopark, Trivandrum	2015
Arish P, A.V.Reddy, Nickolas S	Quantum Algorithms to Find Equilibria in Sequential Games	International Conference on Innovations in Engineering and Technology 2016	565-572		Madurai	2016

Ravi Chandran T, A.V.Reddy, Janet B	A social spider optimization approach for clustering text documents	Advances in Electrical, Electronics, Information, Communication and Bio-Informatics (IEEE)	22-26			2016
Janet B., Reddy A.V	Cube Index for Unstructured Text Analysis and Mining	Proceedings of ICCCS(IEEE Explore)	397-402		Odisha, India	2011
Janet B., Reddy A.V., Domnic S.,	An Image Index Model for Retrieval	Proceedings of BAIP(Springer LNCS)	465–467		Trivandrum, India	2010
Janet B., Reddy A.V., Domnic S	Vector Quantization Based Index Cube Model for Image Retrieval	Proc. of Fourth Pacific-Rim Symposium on Image and Video Technology(IEEE explore)	27-32		Singapore,	2010
Janet B., Reddy A.V.,	Image Index Model for Retrieval using Hadusdorff Distance	Proceedings of Int. Conf. on Computer Applications and Industrial Electronics (ICCAIE) (ACM Digital library)	85-89		Kuala Lumpur, Malaysia,	2010
Janet B., Reddy A.V., Domnic S	Incremental Codebook Generation for Vector Quantization in Large Scale Content Based Image Retrieval	Proceedings of IEEE Int. Conf. CISR (IEEE explore)	223-226		Coimbatore, India	2010