C. PANDU RANGAN

CURRICULUM VITAE

PERSONAL DATA

Born	:	20/09/1955, Madras, India.
		Married, Two Children,
		Citizen of India.
Passport Number	:	Z1760012, Valid till 02 - 06 - 2019.
Father's Name	:	S.R.CHANDRASEKARAN.

OFFICE ADDRESS

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EDUCATIONAL BACKGROUND

M.Sc.	1977	University of Madras	Mathematics
Ph.D.	1984	Indian Institute of	Applied Mathematics
		Science, Bangalore, India.	(Computer Science)

AWARDS AND HONOURS

- 1. Fellow, Indian National Academy of Engineering, (2006).
- 2. Member, Board of Directors, International Association for Cryptologic Research, (IACR), (2002 2005).

- 3. Member, Board of Directors, Society for Electronic Transaction and Security (SETS), (2005 2007).
- 4. Member, Editorial Board, Lecture Notes in Computer Science Series (LNCS Series), Springer-Verlag, Germany, (2005 – 2011).
- 5. Member, Editorial Board, Journal of Parallel and Distributed Computing, (2005-2007).

EMPLOYMENT HISTORY

Lecturer	:	Dept. of Computer Science	June 1982 - July 1987
		and Engineering, IIT,	
		Madras, India 600 036	
Asst. Prof.	:	-DO-	July 1987 - Jan. 1991
Asso. Prof.	:	-DO-	Jan. 1991 - May 1995
Professor	:	-DO-	May 1995 - Present
Head	:	-DO-	Oct. 1998 - Aug. 2001
Visiting Professor	:	Information Communication	Jan. 2003 - Jan. 2004
		University, Korea	
Head	:	Dept. of Computer Science	Aug 2008 - Mar 2011
		and Engineering, IIT,	
		Hyderabad, India	
Head	:	Indian Statistical Institute,	Apr 2011 - Apr 2012
		Chennai, India	

AREAS OF INTEREST

Cryptography Data Structures and Algorithms Graph Algorithms Computational Geometry Parallel Algorithms Randomized Algorithms Distributed Algorithms VLSI Discrete Mathematics Theory of Computation Computational Biology Theoretical Computer Science Technology Enhanced Learning.

COURSES TAUGHT

(Under Graduate, Post Graduate and Research level)

Introduction to High Performance Computing Parallel and Randomized Algorithms Parallel and VLSI Algorithms Design and Analysis of Algorithms Programming and Data Structures Graph Theory and Combinatorics Mathematical Foundations of Computer Science Automata, Languages and Computation Programming and Numerical Methods Recent Trends in Theoretical Computer Science Fundamentals of Computing Introduction to Computing Theory and Practice of Technology Enhanced Learning Data Structures and Algorithms Advanced Data Structures and Algorithms Foundations of Cryptography Cryptography & Network Security

SPONSORED PROJECTS

1.	TITLE	:	Investigations Into Scientific Supercomputing
	SPONSOR	:	ISRO.
	DURATION	:	2 Years, (1986-1988).
	STATUS	:	Completed.
	MY ROLE	:	Chief Investigator.
2.	TITLE	:	Cellular Automata and its Applications.
	SPONSOR	:	DST(Dept. of Science and Technology).
	DURATION	:	3 Years, (1987-1990).
	STATUS	:	Completed.
	MY ROLE	:	Co-Investigator.
	OTHER		
	INVESTIGATORS	:	Dr.Kamala Krithivasan.
			(Chief Investigator).

3.	TITLE	:	CAD for VLSI Design.
	SPONSOR	:	DOE (Department of Electronics).
	DURATION	:	5 Years, (1986-1991).
	STATUS	:	Completed.
	MY ROLE	:	Co-Investigator.
	OTHER		
	INVESTIGATORS	:	Prof.H.N.Mahabala.
			(Chief Investigator).
4.	TITLE	:	Studies in Parallel and Distributed
			Search Algorithms.
	SPONSOR	:	Department of Atomic Energy.
	DURATION	:	3 Years, (1991-1994).
	MY ROLE	:	Chief Investigator.
5	TITLE		Studies in Computational Geometry
0.		•	and its applications
	SPONSOR		MHRD and KFA (INDO-GERMAN PROJECT)
	DURATION	•	3 years (1993-1996)
	MY BOLE		Co-Investigator
	OTHER	•	
	INVESTIGATORS	:	Prof.Kamala Krithivasan.
6.	TITLE	:	Computational Geometry and its
			Applications to Robotics.
	SPONSOR	:	Department of Science and Technology (DST).
	DURATION	:	3 Years, (1994-1997).
	MY ROLE	:	Co-Investigator.
	OTHER		0
	INVESTIGATORS	:	Prof. Kamala Krithivasan.
7.	TITLE	:	Information Sciences.
	SPONSOR	:	MHRD.
	MY ROLE	:	Chief Investigator (From 1992).
	OTHER		
	INVESTIGATORS	:	Prof. Kamala Krithivasan.
8.	TITLE	:	AI Techniques For Industrial Applications.
	SPONSOR	:	MHRD
	MY ROLE	:	Chief Investigator (From 1992).
	STATUS	:	Completed in 1995.
			*

9.	TITLE	:	A Computer Based Learning System for Foundation Courses in Computer Science.
	SPONSOR	:	AICTE.
	MY ROLE	:	Chief Investigator.
	STATUS	:	Completed in 1999.
10.	TITLE	:	Adaptive Error Correcting Codes for
		:	Multimedia over ATM.
	SPONSOR	:	DST (Indo-Israel Project).
	MY ROLE	:	Chief Investigator.
	OTHER		
	INVESTIGATORS	:	Prof. Kamala Krithivasan.
		:	Prof.S.V. Raghavan.
	STATUS	:	Completed (1999-2002).
11.	TITLE	:	Trends in Data Processing.
	SPONSOR	:	TCS.
	MY ROLE	:	Chief Investigator.
	STATUS	:	Completed in 2001.
12.	TITLE	:	Web Based Learning - I.
	SPONSOR	:	CBSI, India.
	MY ROLE	:	Chief Investigator.
	STATUS	:	Completed 1999 - 2002.
13.	TITLE	:	Foundation Research in Cryptography.
	SPONSOR	:	Microsoft Research Labs India Pvt. Ltd.
	MY ROLE	:	Principal Investigator.
	STATUS	:	(2006-2007).
14.	TITLE	:	Establishment of Nationwide Quality of
			Service Network Test bed.
	SPONSOR	:	Ministry of Communications and
			Information Technology.
	MY ROLE OTHER	:	Co-Investigator.
	INVESTIGATORS	:	Prof. S.V. Raghavan. (Chief Investigator)
			Prof. S. Raman.
			Prof. Kamala Krithiyasan.
	STATUS	:	(2005-2008).
15.	TITLE	:	Investigations for Thin Multi Precision Arithmetic.
	SPONSOR	:	DRDO.
	MY ROLE	:	Chief Investigator.
	STATUS	:	(2005-2006).

16.	TITLE	:	Protocols for Secure Communication and Computation.
	SPONSOR	:	Department of Information Technology.
	MY ROLE	:	Chief Investigator.
	STATUS	:	(2006-2009).
17.	TITLE	:	Foundation Research in Cryptography.
	SPONSOR	:	Mircosoft Research, India.
	MY ROLE	:	Chief Investigator.
	STATUS	:	(2006-2009).
18.	TITLE	:	Protecting Critical Infrastructure from Denial of
			Service Attacks: Tools, Technology, and Policy (Indo-Australian Joint Project)
	SPONSOR		Governments of India and Australia
	MY ROLE		Co-Investigator
	STATUS	:	(2008-2010).
19.	TITLE	:	Information Network for Natural Disaster
			Mitigation and Recovery - INNDMR
			(Indo-Japan Joint Project at IIT Hyderabad 2010-2015).
	SPONSOR	:	Governments of India and Japan.
	MY ROLE	•	Co-Investigator
		·	co mostigator.

CONTINUING EDUCATION PROGRAMS

- 1. Co-ordinator for a course on MICRO PROCESSORS for engineering college teachers (1985).
- 2. Complete Courses were offered on COMPUTABILITY THEORY and on DESIGN AND ANALYSIS OF ALGORITHMS during DEC 1985 and MAY 1986 at IIT DELHI for teachers under CS MANPOWER DEVELOPMENT PROGRAM sponsored by MHRD (Ministry of Human Resources and Development).
- 3. Delivered a series of lectures in Design and Analysis of Algorithms during JAN to MAY 2006 at Indian Institute of Information Technology and Management, Kerala.

MAJOR PROFESSIONAL ACTIVITIES A. PROFESSIONAL VISITS ABROAD

- 1. Visited Suprinum, Bonn, W.Germany for about a month (1988) on an invitation for some studies on supercomputing and super computers.
- 2. Visited Siemens R & D center at MUNICH, West Germany for technical and project discussions for about one month during September October, 1989.
- 3. Visited Lab for Theoretical Computer Science (LITP) in University of Paris during May - July 1990 on an Invitation for joint Research Studies on parallel algorithmics.
- 4. Visiting Professor, Department of Computational Sciences, University of Saskatchewan, CANADA, June July, 1991.
- 5. Visiting Professor, Department of Applied Mathematics, National Chio Tung University, Hsinchu, Taiwan, ROC, December, 1991.
- Visited Max Plank Institute for Informatics, Saarbruken, as a co-investigator in the INDO-GERMAN Joint Project on Computational geometry during June - September, 1993.
- Visited Beijing, China, to present two papers in the International Conference, ISAAC'94, August, 1994.
- Visited Florida International University, USA for discussions on joint Indo US proposals, June, 1995.
- 9. Visited University of Paris for discussions, July, 1995.
- Visiting Professor, Department of Computer Science, Chinese University of Hong Kong, June - July, 1996.
- Visiting Scientist, Max-Plank Institute for Informatics, Saarbruken, Germany, December, 1996.
- 12. Visiting Faculty, University of New Castle, New Castle, Australia, May June, 1997.
- 13. Visiting Faculty, Florida International University, Miami, USA, July August 1997.
- 14. Visiting Professor, Korea Advanced Institute of Science and Technology, Korea, August - December, 1997.
- 15. Visiting Scientist, Tokyo IBM Research Lab, Tokyo, Japan, June July, 1998.
- Visited Hong Kong & Seoul, Korea to present papers in International Conferences, December, 1998.

- 17. Visiting Faculty, EPFL, Lausanne, Switzerland, June July, 1999.
- Visited National University, Singapore for discussion on MIT-Singapore alliance, January, 2000.
- 19. Visited IBM, Tokyo Research Laboratory to deliver a series of Lecture on Randomized Algorithms, June July, 2000.
- 20. Visited Microsoft Research Foundations, Microsoft, Redmond, USA to participate in faculty summit, June July, 2001.
- 21. Visited IBM, Tokyo Research Laboratory to deliver a series of Lecture on Algorithms, June July, 2002.
- 22. Visited Melbourne, Australia to present a paper in International Conference on Information Security, July 5-7, 2002.
- 23. Visited San Francisco, USA to present a paper in International Conference on Distributed Computing, ACM PODC 2002, July 21-24, 2002.
- 24. Visited Singapore, to present a paper in International Conference on Computing and Combinatorics, COCOON 2002, August 15-17, 2002.
- 25. Visited Queenstown, New Zealand to present a paper in International Conference on Advances in Cryptology, ASIACRYPT 2002, December 1-5, 2002.
- 26. Visiting Professor, Information Communication University, Korea, January 2003-January 2004.
- Visited ETZ-Zurich, Switzerland for Technical Discussions / Seminar series, January -February 2005.
- Visited Lucent Technologies, USA and DIMACS, New Jersey for discussions and seminar series, May - June 2005.
- 29. Visited Microsoft Research, Redmond, USA to participate in Faculty summit July 2005.
- 30. Visited Lucent Technology, USA and presented paper in TCC 2006.

B. WORKSHOPS AND CONFERENCES

- 1. Served in Program Committee and Chaired a session in First International Workshop on VLSI design, INDIA, (1986).
- 2. Organized a workshop on PARALLEL PROCESSING AND SUPERCOMPUTING AT IIT MADRAS (1987) (Faculty Members who offered the lecture include:
 - (a) Prof Ullrich Trottenberg, Director, SUPRINUM, Bonn, W.Germany.
 - (b) Dr.Hilles, Founder Director, Thinking Machines Inc, U.S.A.)
 (SPONSORED BY ISRO - IIT JOINT RESEARCH CELL)
- Member, Program Committee, National Seminar on Theoretical Computer Science, Madras, India, July, 1991.
- 4. Member, Program Committee, The Fifth International Conference On VLSI Design, VLSI DESIGN '92, Bangalore, INDIA, January, 1992.
- 5. Member, Program Committee, 12^{th} FSTTCS, New Delhi, INDIA, 1992.
- 6. Chair, Session on Approximate Algorithms, 14th FSTTCS, Madras, INDIA, 1994.
- Member, Program Committee, International Conference on High Performance Computing, New Delhi, December, 1995.
- 8. Member, Program Committee, 15th FSTTCS, Bangalore, December, 1995.
- 9. Member, Program Committee, International Conference on Discrete Mathematics and Number Theory, Trichy, India, January, 1996.
- Member, Program Committee, International Conference on High Performance Computing, Trivandrum, December, 1996.
- 11. Member, Program Committee, 17th FSTTCS, Kharagpur, December, 1997.
- 12. Member, Program Committee, ISAAC '97, Singapore, December, 1997.
- 13. Member, Program Committee, 18^{th} FSTTCS, Madras, India, December, 1998.
- 14. Member, Program Committee, and Session Chair, ISAAC '98, South Korea, December, 1998.
- 15. Symposium Chair, ISAAC '99, Madras, India, December, 1999.
- 16. Symposium Chair, 19th FSTTCS, Madras, India, December, 1999.

- 17. Member, Program Committee, INDOCRYPT 2000, Calcutta, India.
- 18. Program Co-chair, INDOCRYPT 2001, Madras, India, December, 2001.
- 19. Member, Program Committee, COCOON, Singapore, August, 2002.
- 20. Member, Program Committee, 8th ACISP, Australia, July, 2003.
- 21. Member, Program Committee, 10th ACISP, Australia, July, 2005.
- 22. Member, Program Committee, Mycrypt 05, Malaysia, September, 2005.
- 23. General Chair, ASIACRYPT 2005.
- 24. Member, Program Committee, INDOCRYPT 2006.
- 25. Member, Program Committee, VietCrypt 2006.
- 26. Member, Program Committee, WISA 2006.
- 27. Member, Program Committee, ICDCN 2006.
- 28. Member, Program Committee, CANS 2006.
- 29. Member, Program Committee, PKC 2007.
- 30. Program Co-Chair, INDOCRYPT 2007.
- 31. Member, Program Committee, ISAAC 2007.
- 32. Member, Program Committee, CANS 2007.
- 33. Member, Program Committee, INDOCRYPT 2008.
- 34. Member, Program Committee, CANS 2008.
- 35. Member, Program Committee, ASIACRYPT 2008.
- 36. Member, Program Committee, WISA 2008.

C. PUBLICATION SERVICES

- 1. Member, Editorial Board, Mathematics Teacher (1987-1988).
- 2. Member, Editorial Board, CSI Journal From May 1990.
- 3. Guest Editor, Special Issue on Algorithmics for the CSI Journal of Computers and Informatics - 1992.
- 4. Foundation Editor, Journal of Universal Computer Science (JUCS) An International Electronic Journal published by Springer Verlag, Germany, 1994.
- 5. Refereed/ Refereeing Papers for several reputed International journals such as Information Processing Letters, Jl of Algorithms, SIAM Jl of Disc Maths, Nordic Journal of computing, Computational Geometry Theory and Practice, Algorithmica, Acta informatica, Journal of Parallel and Distributed Computing
- 6. Refereed/ Refereeing papers for several reputed international conferences such as International Conference on Parallel Processing (ICPP), International Parallel Processing Symposium (IPPS), FSTTCS, HiPC, ISSAC, INDOCRYPT, etc.

D. MISCELLANEOUS

- 1. Organized State Level Mathematical Olympiad (1987) for AMTI.
- 2. Member in the board of academic courses for several Universities.
- Member, Working Group for forming C-DAC, (CENTER FOR DEVELOPMENT OF ADVANCED COMPUTING), A Nation Level Initiative on Supercomputers and Supercomputing, (1986-1988).
- 4. Invited to serve as a specialist referee by Hong Kong Research Grants Council, Hong Kong, for refereeing applications for research project grants, (1995).
- 5. Delivered the KEY NOTE ADDRESS in National Seminar on Graph Theory conducted at Annamalai University, Chidambaram, Tamil Nadu, India, on February 21, 1990.
- 6. Presented a talk on DESKTOP PUBLISHING in ALL INDIA RADIO, MADRAS on 14/10/1992 in a popular science program.
- Presented a talk on ARTIFICIAL INTELLIGENCE in ALL INDIA RADIO, MADRAS on 13/2/1993 in a popular science program.
- Participated in a Discussion on Computers in Education in ALL INDIA RADIO, MADRAS on 5/5/1994.
- 9. Presented a talk on VIRTUAL REALITY in ALL INDIA RADIO, MADRAS on 28/3/1995 in a popular science program.
- Presented a planary talk on APPLICATION SPECIFIC PARADIGMS in THE SIXTH NATIONAL SEMINAR ON THEORETICAL COMPUTER SCIENCE, Rajasthan, 1996.
- Presented a talk on TRENDS IN ALGORITHMICS at ANNA UNIVERSITY, October, 1996.
- 12. Vice-President, IARCS, 1999 2002.
- 13. Member, Society of the Tamil Nadu Science and Technology Centre, 2001 2003.
- 14. Vice-President, Cryptology Research Society India (CRSI), 2001 2004, 2005 2007.
- Member, Board of Directors, International Association of Cryptology Research (IACR), 2003 – 2005.
- Member, Board of Directors, Society for Electronic Transactions and Security (SETS), 2005 – 2007.
- 17. FELLOW, Indian National Academy of Engineering, (FNAE).

MAJOR DEPARTMENTAL/INSTITUTE RESPONSIBILITIES

- 1. Set up the Theoretical Computer Science lab (TCS LAB) in 1990. The infrastructure was built from the departmental grants and from the project grants. In charge of the TCS lab since 1990.
- 2. Administrative in-charge for the artificial intelligence lab 1992 1997.
- 3. Member, Board of Academic Courses (1988 1990), (1991 1993), (1995-1997).
- 4. Member, Library Advisory Committee (1990 1992).
- 5. GATE'88, Chief Co-ordinator for Numerical Computing and Data Structure Part.
- 6. JEE 94, Chief Examiner.
- Member, Selection Board, DRDO Post Graduate Training Programme and User Oriented Programme (M.Tech) 1993, 1994, 1996.
- 8. Member, GATE Committee, 1995-1997.
- 9. GATE 96, Chief Examiner.
- 10. Faculty Advisor for B.Tech Students, 1992-1996.
- 11. Faculty Advisor for M.Tech Students, 1996-1997.
- 12. Head-in-charge, Department of Computer Science & Engineering, May-June, 1996.
- 13. Warden, Narmada Hostel, 1998-2000.
- 14. Chief Examiner, GATE 98, 2000.
- 15. Head, Dept. of Computer Science & Engg., October 1998 August 2001.

PUBLICATIONS

I. Appeared in Refereed Journals

- Arpita Patra, Ashish Choudhury, C. Pandu Rangan: Efficient Asynchronous Verifiable Secret Sharing and Multiparty Computation. Journal of Cryptology January 2015, Springer, Volume 28, Issue 1, pp 49-109 (2015)
- Arpita Patra, Ashish Choudhury, C. Pandu Rangan: Asynchronous Byzantine Agreement with optimal resilience. Distributed Computing April 2014, Springer, Volume 27, Issue 2, pp 111-146 (2014)
- 3. Sangeetha Jose, Akash Gautam, C. Pandurangan: A New Certificateless Blind Signature Scheme. JoWUA, ISYOU 5(1): 122-141 (2014)
- 4. Kunwar Singh, C. Pandu Rangan, A. K. Banerjee: Lattice Based Efficient Threshold Public Key Encryption Scheme. JoWUA, ISYOU 4(4): 93-107 (2013)
- 5. Sangeetha Jose, Preetha Mathew K. and C. Pandu Rangan: Strongly Secure Password Based Blind Signature for Real World Applications. Infocommunications Journal 5(3): 22-29 (2013).
- 6. S. Sree Vivek, S. Sharmila Deva Selvi, Ramarathnam Venkatesan, C. Pandu Rangan: A Special Purpose Signature Scheme for Secure Computation of Traffic in a Distributed Network. JoWUA, ISYOU 3(4): 46-60 (2012)
- 7. S. Sree Vivek, S. Sharmila Deva Selvi, Salini Selvaraj Kowsalya, C. Pandu Rangan: PKI Based Signeryption without Pairing: an Efficient Scheme with Tight Security Reduction. JoWUA, ISYOU 3(4): 72-84 (2012)
- Ashwinkumar Badanidiyuru, Arpita Patra, Ashish Choudhury, Kannan Srinathan, C. Pandu Rangan: On the trade-off between network connectivity, round complexity, and communication complexity of reliable message transmission. Journal of ACM Vol 59 (No 5): 22, 2012.
- 9. S. Sree Vivek, S. Sharmila Deva Selvi, V. Radha Kishan, C. Pandu Rangan: Efficient Conditional Proxy Re-Encryption with Chosen Cipher Text Security. IJNSA, 2012
- Preetha Mathew K, Sachin Vasant, Sridhar Venkatesan, and C. Pandu Rangan: A CCA2 secure Code based encryption scheme in the Standard Model, Journal on Computing.JoC - Print ISSN: 2010-2283, Volume 2 No 1, 2251-3043 (April 2012)
- 11. S. Sharmila Deva Selvi, S. Sree Vivek, C. Pandu Rangan: Identity Based Ring Signeryption Schemes Revisited. Journal of Math-for-Industry-2011A, Springer 2011.

- 12. T. V. Thirumala Reddy, C. Pandu Rangan: Variants of Spreading Messages. Journal of Graph Algorithms and Applications. Vol 15 (No 5): 683-699, 2011.
- Ashish Choudhury, Arpita Patra, B. V. Ashwinkumar, Kannan Srinathan, C. Pandu Rangan: Secure message transmission in asynchronous networks. Journal of Parallel and Distributed Computing, Elsevier Vol 71 (No 8): 1067 – 1074, 2011.
- Arpita Patra, Ashish Choudhury, C. Pandu Rangan, Kannan Srinathan: Unconditionally reliable and secure message transmission in undirected synchronous networks: possibility, feasibility and optimality. IJACT Vol 2 (No 2): 159 – 197, 2010.
- 15. Balasubramanian Sivan, S. Harini and C. Pandu Rangan. On Conditional Covering Problem. Appears in *Mathematics in Computer Science, Springer 3(1): 97-107 (2010)*.
- Arpita Patra, Ashish Choudhary, C. Pandu Rangan, Kannan Srinathan and Prasad Raghavendra, Perfectly Reliable and Secure Message Transmission Tolerating Mobile Adversary, International Journal of Applied Cryptography (IJACT), Vol. 1(3), pp. 200 – 224, 2009.
- 17. Arvind Narayanan, K. Srinathan and C. Pandu Rangan: Perfectly Reliable Message Transmission, Inf. Process. Lett, (IPL), Vol 100(1), pp 23-28, 2006.
- 18. V. Guruswami, C. Pandu Rangan, M.S. Chang, G.J. Chang and C.K. Wong, The K_r -Packing Problem, Computing Vol. 66, pp. 79 89 (2001).
- Lakshminarayanan Subramanian, Muralidhar Talupur, Kamala Krithivasan and C. Pandu Rangan, On the Generative Power of Simple H Systems, Journal of Automata, Languages and Combinatorics Vol. 5, pp. 457 – 473 (2000).
- D. Arun Kumar and C. Pandu Rangan, Approximation Algorithms for the Traveling Salesman Problem with Range Condition, Theoretical Informatics and Applications, Vol. 34, pp. 173 – 181 (2000).
- Ravi Kant, S. Felsner, C. Pandu Rangan and D.Wagnar, The Complexity of Partial Order Properties Order, Vol. 17, pp. 179 – 193 (2000).
- V. Guruswami and C. Pandu Rangan, Algorithmic aspects of clique traversal and clique independent set, Discrete Applied Mathematics, Elsevier, Vol. 100, pp. 183–202 (2000).
- A.Arvind, C. Pandu Rangan, Symmetric Min-Max heap: A simpler data structure for double-ended priority queue, Information Processing Letters, Elsevier, Vol. 69, pp. 197 – 199 (1999).
- 24. C. Pandu Rangan, K. R. Parthasarathy, V. Prakash, On The g-Centroidal Problem in Special Classes of Perfect Graphs, Ars Combinatoria, Vol. 50, pp. 267–278 (1998).
- D.G. Kirkpatrick, K. Madhukar, C. Pandu Rangan, A.Srinivasan, Partial and Perfect Path Covers of Cographs. *Discrete Applied Mathematics*, Elsevier, Vol. 89, pp. 143 – 153 (1998).

- V. Prakash, K.R. Parthasarathy, C. Pandu Rangan, The Deuchet Conjecture, Int Jl of Pure and Applied Maths, Vol. 29, pp. 447 – 459 (1998).
- M.S. Chang, P. Nagavamsi, C. Pandu Rangan, Weighted Irredundance in Interval Graphs, *Inform. Proc. Letters*, Elsevier, Vol. 66, pp. 65 – 70 (1998).
- V. Guruswami and C. Pandu Rangan, A natural family of optimization problem with arbitrary small approximation thresholds. Inform. Proc. Letters, Elsevier, Vol. 68, pp. 241 – 248 (1998).
- G.Venkatesan, U.Rotics, M.S.Madan Lal, J.A.Makovsky, C. Pandu Rangan, Restrictions of Minimum Spanners Problem, Information and Computation, Elsevier, Vol. 136, pp. 143 – 164 (1997).
- K.S. Easwarakumar, S.V. Krishnan, C. Pandu Rangan, S. Seshadri, Optimal Parallel algorithm for finding st-ambitus of a Planar Biconnected Graphs, *Algorith*mica, Springer, Vol. 15, pp. 242 – 255 (1996).
- C.R. Satyan, C. Pandu Rangan, The Parity Path Problem on some subclasses of Perfect Graphs, *Discrete Applied Maths*, Elsevier, Vol. 68, pp. 293 – 302 (1996).
- R.F.M. Aranha, C. Pandu Rangan, An efficient Distributed algorithm for centering of a spanning tree of a biconnected graph, *Information Proc Letters*, Elsevier, Vol. 59, pp. 145 - 150 (1996).
- V. Balachandran, P. Nagavamsi, C. Pandu Rangan, Clique Traversal and Clique Independance of Comparability Graphs, *Information Processing Letters*, Elsevier, Vol. 58, pp. 181 – 184 (1996).
- M.S. Madanlal, G. Venkatesan, C. Pandu Rangan, Tree 3-Spanners on Interval, Permutation and Regular bipartite Graphs, *Inform. Proc. Letters*, Elsevier, Vol. 59, pp. 97 - 102 (1996).
- V. Balachandran, C. Pandu Rangan, All-Pairs-shortest-length on Strongly Chordal graphs, *Discrete Applied Mathematics*, Elsevier, Vol. 69, pp. 169 – 182 (1996).
- G. Venkatesan, C. Pandu Rangan, Approximate Triclique Coloring For Register Allocation. *Inform. Proc. Letters*, Elsevier, Vol. 60, pp. 249 – 253 (1996).
- K. Arvind, V. Kamakoti, C. Pandu Rangan, Efficient parallel Algorithms on Permutation Graphs, *Jl of Parallel and Distributed Computing*, Elsevier, Vol. 26, pp. 116-124 (1995).
- G. Srikrishna, C. Pandu Rangan, Optimal Parallel Algorithms for Path Problems on Planar Graphs, *Theoretical Computer Science*, Elsevier, Vol. 145, pp. 27 – 43 (1995).
- K. Madhukar, D. Pavan Kumar, C. Pandu Rangan, R. Sundar, Systematic Design of an Algorithm for Biconnected Components. *Science of Programming.*, Springer, Vol. 25, pp. 63 – 77 (1995).

- C.P. Gopalakrishnan, C. Pandu Rangan, A Linear Algorithm for the Two Path Problem on Permutation Graphs, *Discussions Mathematica - Graph Theory* Vol. 15, pp.147 – 166 (1995).
- C.P. Gopalakrishnan, C. Pandu Rangan, Edge Disjoint Paths in Permutation Graphs, Discussiones Mathematicae - Graph Theory, Vol. 15, pp. 59 – 72 (1995).
- C.P. Gopalakrishnan, C.R. Satyan, C. Pandu Rangan, Efficient Algorithms for Minimal Disjoint Path Problems on Chordal Graphs. *Discussiones Mathematicae - Graph Theory*, Vol. 15, pp. 119 – 145 (1995).
- C.R. Satyan, C. Pandu Rangan, Feedback Vertex Set Problem on Cocomparability Graphs, *Networks*, Wiley, Vol. 26, pp. 101 – 111 (1995).
- Anand Srinivasan, K. Madhukar, P. Nagavamsi, C. Pandu Rangan, M.S. Chang, Edge Domination on Bipartite Permutation Graphs and Cotriangulation Graphs. *Information Processing Letters*, Elsevier, Vol. 56, pp. 165 – 171 (1995).
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IV. Refereed National Conferences

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DEGREE	GUIDED	ON GOING
Ph.D.	12	2
M.S.	30	3
M.Tech.	75	0
B.Tech/M.Tech (Dual Degree)	5	0
B.Tech.	109	0

PROJECT/RESEARCH GUIDANCE

Research Guidance

1. Doctor of Philosophy

- 1. Sangeetha Jose, Variants of Provably Secure Blind Signature Schemes, (2015)
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2. Master of Science (By Research)

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3. Master of Technology

- 1. Dipanjan Das, An Identity Based Encryption Scheme Resilient to RAM Scraper Like Malware Attacks, (2015)
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- 67. Patkar Sachin B., Efficient Parallel Algorithms for Some Linear Matroid Theoretic Problems. (1987).
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- 69. Vijayalakshmi G., Animation of Algorithms. (1986).
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- 74. Sulaiman M.K., Computer Recognition of Constrained Handprinted Devanagiri characters. (1986).
- 75. Sudarsana Rao P., Linear Feature Quad Tree A New Representation Scheme for Curvilinear Data. (1986).

4. Dual Degree (B.Tech./M.Tech.)

- 1. Varad Kirtane, RSA-Based Signeryption with Proxy Re-encryption, (2008).
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