

Ethirajan Govinda Rajan (E. G. Rajan)
 PROFESSOR OF SIGNAL PROCESSING
 Professional Member, ACM
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ADDRESS FOR COMMUNICATION
Dr. E. G. Rajan Founder President Pentagram Research Centre (P) Limited Partner Company, SUN Micro Systems, U.S.A. # 201, Venkat Homes, MIGH – 59, Mehdiapatnam HYDERABAD – 500 031, A.P., India
CURRENT AFFILIATION
Director Sagar Institute of Technology SVVR Educational Society, Hyderabad

A. IDENTIFYING DATA

- | | | |
|----|-----------------------|------------------------------------|
| 1. | Date of Birth: | June 30, 1950 |
| 2. | Place of Birth: | Tamil Nadu, India |
| 3. | Nationality: | Indian |
| 4. | Identification marks: | A scar in the left arm pit |
| 4. | Marital Status: | Married (One son and one daughter) |
| 5. | Passport Number: | --- |
| 6. | Car details: | Fiat Siena ELX Model Petrol Car |

B. ACADEMIC HISTORY

DEGREES AND UNIVERSITIES ATTENDED	
Ph.D	Electrical Engineering, (Signal and Image Processing), Indian Institute of Technology, Kanpur, U.P., 1989-90
M.E.	Applied Electronics, Madras University, 1982-83
DMIT	Electronics Engineering, Madras Institute of Technology Chromepet, Madras, 1973-74
B.Sc	Physics Major, Madras University, 1969-70
ACADEMIC AND PROFESSIONAL HONORS	

Categorized as the Best Instructor of the department of Electrical Engineering, of the Indian Institute of Technology, Kanpur for the academic years 1990-1991 and 1991-1992.

Category # 1 reports on the Ph.D thesis from the external examiners (i) Prof. A.G. Constantinides, Imperial College of Science, Technology and Medicine, London and (ii) Prof. C. Moraga, University of Dortmund, Germany, 1989.

1 in the class with the grade A in the one year German course conducted by the department of Humanities, I.I.T. Kanpur, 1986.

University first in the Industrial Electronics paper during the M.E. program in the Madras University, 1981-1982.

Commendation from Indian Navy for the book written on the Electronic Order of Battle Records of certain Radars, Aviation Research Center, Cabinet Secretariat, Government of India, 1980.

Best project award for the students' project work "Electronic Robot Animal", Directorate of Tech. Education, Guindy, Madras, 1975.

All faculty first in Engineering Drawing and Thermodynamics during the D.M.I.T. programme, Madras Institute of Technology, 1971.

University first in English (Grade: B+) in the Pre-University Examination, Madras University, 1967.

School first in General Science and Moral Science, Sacred Heart High School, Golden Rock, Board of Secondary Education, Madras, 1961.

DISTINGUISHED HONORS AND AWARDS

Distinguished Scientist and Man of the Millennium Award,

Who is Who Bibliographical Records, Cambridge, 2000.

Editor, AMSE, The Royal Academy of Doctors, Barcelona, Spain

Special Invitee, Russian Academy of Sciences, Siberian Branch

Elected Member, International Federation of Systems Research,

Johannes Kepler Universität Linz, Austria

Distinguished Professor of Eminence in Research,

Anna University Coimbatore, Tamil Nadu.

C. EMPLOYMENT RECORD

SUMMARY OF EMPLOYMENT RECORD

35 years of industrial, professional, teaching and research experience

1. **1993 onwards**

President, Pentagram Research Centre Private Limited, Hyderabad (1997 -)

Director, Sagar Institute of Technology, Chevella, Hyderabad (March 2009 -)

Director, Academic Planning, JBIET, Hyderabad (July 2008 – December 2008)

Principal, JBIET, Hyderabad (July 2008 – December 2008)

Adviser, Gokaraju Rangaraju Educational Society, Hyderabad, 2006-2008

Dean, CSE, Gokaraju Rangaraju Institute of Engineering & Technology-up to 2008

Professor of Electronics and Communication Engineering (2000-2006)

Professor and Chairman of the Department of Computer Science and Engineering, and Department of Information Technology (1997-2000)

Professor of Electronics and Communication Engineering (1996-1997)

Asst. Prof. of Electronics and Communication Engineering (1994-1996)

Visiting Prof. Electronics and Communication Engineering (1993-1994)

Vasavi College of Engineering, Ibrahimbagh, Hyderabad - 500 031.

2 .

1990 to 1993

Visiting Professor (Research Associate), Department of Electrical Engineering, **Indian Institute of Technology, Kanpur**, U. P.

3 .

1977 to 1986

Electronic Warfare Officer / Signal Analyst, Aviation Research Centre, Cabinet Secretariat, Directorate General of Security, Government of India.

4 .

1974 to 1976

Engineer (T) / Assistant Lecturer, Directorate of Technical Education, College of Engineering, Guindy, Madras, Tamil Nadu.

D. UG / PG PROJECTS AND RESEARCH GUIDANCE

SUMMARY OF PROJECT WORK SUPERVISED

Ph.D	Number of theses completed:	7
	Number of theses in progress:	25
	Number of PhD Viva conducted:	6
	Number of people registered now:	10
M.S/ME/M.Tech	Number of theses completed:	60
B.E/B.Tech	Number of reports completed:	40

1.

Ph.D work in Progress / Completed – Partial list

Rajan Transform and its applications to Pattern Recognition, thesis by Mr. M. Ekambaram Naidu, Professor and Head, Dept. of Computer Science, TRR College of Engineering, Hyderabad, submitted to University of Mysore, Karnataka, Completed.

Fault Diagnosis Using Cellular Automata, thesis by Mrs. Asha Rani, Assistant Professor, Dept. of Electronics & Communication Engineering, J.N.T.U. Kukatpally, to be submitted to Jawaharlal Nehru Technological University, Hyderabad.

Study of Discrete Geometry Models for Shape Representation and Understanding, thesis by Mrs. Jyothi Patil, Assistant Professor, Department of Computer Science & Engineering, PDA College of Engineering, Gulbarga University, Gulbarga, to be submitted to the University of Mysore.

DNA Computing in the Framework of Markov’s Constructive Mathematical Logic, thesis by Mr. B. Rajasekhara Reddy Asst. Professor, Department of Electronics & Communication Engineering, Vasavi College of Engineering, Hyderabad, to be submitted to the University of Mysore.

Flexinet - DNA search in a networking system, thesis by Yousuf Mulge, Professor, Dept. of Computer Science, Rural College of Engineering, Bhalki, submitted to University of Mysore, Completed.

Digital Logic Realization using Molecules, thesis by Mrs. Towheed Sultana, Professor, Dept. of Electronics & Communication Engineering, VIF College of Engineering, Hyderabad, to be submitted to Jawaharlal Nehru Technological University, Hyderabad.

Performance Analysis of Molecular Electronic Devices and Molecular Processors, thesis by Mr. Manas Pradhan, Assistant Professor, ICFAI School of Information Technology, ICFAI University, Hyderabad, to be submitted to the University of Mysore, Karnataka.

Simulation of Electronic Support Measures of Radar Intelligence, thesis by Mr. Raja, Assistant Professor, Dept. of Electronics & Communication Engineering, MG Institute of Technology, Gandipet, Hyderabad, to be submitted to Jawaharlal Nehru Technological University, Hyderabad.

Higher Order Cellular Automata Realizations like Filter Automata and Their Applications to Multi-dimensional Signal Processing, thesis by Mrs. Shabana Naaz, Professor and Principal, Nizam Institute of Computer Applications, to be submitted to Jawaharlal Nehru Technological University, Hyderabad.

The following people have registered for PhD Anna University, Coimbatore, Tamil Nadu under my supervision:

Ajay Shankar Singh (Professor, JBREC, Hyderabad)

P. Manoj Kumar (Professor (JBREC, Hyderabad)

J. Ashok (Principal, Vishnusree Institute of Technology)

R. Sivarajan (Lead Engineer, General Electric, Hyderabad)

N. Narasimha Rao (General Manager, BEL, Hyderabad)

Ahmed Sajjad Khan (Prof., Anjuman College of Engg Nagpur)

Wing Commander V. Vijaya Saradhi (Vice President, PRC, Hyd.)

Md. Zuber (Asst. Prof. HI-Point College of Engineering, Hyd.)

2.

Ph.D Viva Voce Examinations conducted so far

Faetal 3D-MRI Studies, Ph.D thesis by Mr. Bhanu Praksh, Department of Electrical Engineering, Indian Institute of Science, Bangalore, 2002

3D Coding of MR Images and Estimation of Hemodynamic Response Function from fMRI Data, Ph.D thesis by Mr. R. Srikanth, Department of Electrical Engineering, Indian Institute of Science, Bangalore, 2004

Digital Signal Processing of Cochlear Implants, Ph.D thesis by Mrs. Shanti Prabha, Professor Department of Electronics and Communication Engineering, JNT University, Kakinada, 2005

A Study On The Analytic And Algebraic Aspects Of Structured Algorithms, Ph.D thesis by Mr. N. Sairam, Professor, School of Computing, Shanmugha Arts, Science, Technology and Research Academy (SASTRA- Deemed University) Thanjavur, Tamil Nadu, 2006

Certain Investigations On The Performance And Hardware Implementation Of Scheduling Algorithms For Packet Switches In High Speed Networks, Ph.D thesis by Mrs. G. Shanthi, Professor, Department of Electronics and Communication Engineering, PSG College of Technology, Coimbatore, Tamil Nadu, 2006.

PhD thesis by Shri. Rajiv Sharma, Research Associate, Design Laboratory, Department of Ocean Engineering Naval Architecture, Indian Institute of Technology, Kharagpur, West Bengal

3.

M.S. / M.E. / M.Tech theses work supervised – Partial list

Object Identification and Tracking in a Multiple Target Environment, M.E. thesis submitted to Osmania University by Mr. K. Jayasankar 1994.

Skeletonization of Graphic Images using Cellular Logic Array Processing techniques, MCA thesis submitted to Osmania University by Mukaramuddin 1995.

Generalised Rapid Transformation and its use in Data Encryption, M.Tech thesis submitted to Regional Engineering College, Warangal by N. Srinivasa Rao, 1996.

Representation and Processing of Digital Images on Hexagonal Grid, M.Tech thesis submitted to Department of Electronics, Government of India, by R. Subhani 1997

Cellular Automata Modeling of Unidirectional Fluid Flow, M.E. thesis submitted to Jawaharlal Nehru Technological University, Hyderabad by G. S. S. Prasada Rao 1997.

Modeling and Simulation of Solidification and Aggregation using Lattice Gas Automata, M.E. thesis submitted to Jawaharlal Nehru Technological University, Hyderabad by V.S. Ravi Prasad 1997.

Machine Vision Aided Component Sorting in a Robot Based Industry using Generalised Rapid Transform, M.E. thesis submitted to Jawaharlal Nehru Technological University, by S. Venugopal, 1997.

Modeling of Obstacle Avoidance in the framework of Cellular Logic Array Processing, M.E. thesis submitted to Jawaharlal Nehru Technological University, by V. V. Sai Reddy, 1997.

Generalised Rapid Transform and its Applications to Pattern Recognition and Image Processing, M.E. thesis submitted to Gulbarga University by Moyeed Sultana, 1998.

Constructive Genetic Algorithms in the Framework of Markov's Associative Calculus, M.Tech thesis submitted to Osmania University by Mrs. Nuzhat Sultana, 1998

A Constructive Logical Approach to Intelligent Control of Autonomous Systems, M.E. thesis submitted to Osmania University by Ms. Mohsina Afroze, 1998.

FLEXINET – An Intelligent Networking System, M.Tech thesis submitted to Visveswaraiah Technological University, Karnataka, by Mrs. Parveen Tabassum, 1999

Cellular Automata Realization of Digital Filters, M.Tech thesis submitted to Visveswaraiah Technological University, Karnataka, by Mrs. Shabana Naaz, 1999

Spatial and Spectral Domain approach to watermarking of digital images submitted to Visveswaraiah Technological University, Karnataka, by Mr. Fakaruddin Chisty, 2000.

Information Coding Techniques for Error Detection and Correction, M.Tech thesis submitted to Jawaharlal Nehru Technological University, by G. Krishna Reddy, 2000

Rajan Transform and Its Applications, M.Tech thesis submitted to Jawaharlal Nehru Technological University, by Veera Narayana Reddy, ALFA College of Engineering, Nandyal, 2001

Collision Avoidance Systems in a Combat Space, M.Tech thesis submitted to Jawaharlal Nehru Technological University, by Mr. Narendra Reddy, Associate Professor, Dept. of Computer Science, Vardhaman College of Engineering, Hyderabad, 2005

4.

B.S. Projects supervised – Partial list

Cellular Logic Techniques for Character Recognition
Digital Filters and Filter Automata
Morphological Image Processing in Hexagonal Digital Grid
Lindenmayer Systems and their use in parallel Processing of Signals
Precision Tracking and Control of Autonomous Homing Systems
Symbolic Processing of Signals
Neural Automata Based Object Recognition
Two Dimensional Digital Filters- Analysis and Design
Speech Digitization using Adaptive Delta Modulation
GIS- an Integration of GRASS 4.1 (U.S.Army Product) with CLAP
Signal Processing using Rewriting Cyclic Normal Automata
Character Recognition using Generalised Rapid Transform
Study of Algebraic Properties of Rajan Transform
BRAHMASTRA - Target Seeking / Target Avoiding System Model.
VC++ Based Software for Collision Avoidance Systems.
Sub Band Coding of Speech signals in Windows Environment.
Watermarking of Digital Images using Rajan Transform
Neighborhood Processing of Digital Images
Cellular Logic Based Collision Avoidance System
Flank Wear Measurement using Machine Vision Techniques
Vander Pol Oscillators – Stability Analysis

E. PROJECTS AND CONSULTANCY

SUMMARY OF RESEARCH / COMPANY PROJECTS AND CONSULTANCY

Total cost of projects: More than Rs 1500 Crores Funding Agencies: Ministry of Human Resources AICTE, Government of India; Tyche Peripheral Systems, etc

Research / Company Projects

1. **High-Throughput Cellular Logic Array Processing Structures for Image Understanding**, Advanced Center for Automation Research, Vasavi College of Engineering, a research and development project sponsored by the All India Council for Technical Education, Govt. of India. Project Cost: Rs. 5,00,000/-. (Project completed.)
2. **Computer Vision Laboratory**, Advanced Center for Automation Research, Vasavi College of Engineering, a project sponsored by All India Council for Technical Education, Government of India. Project Cost: Rs. 6,00,000/-. (Project completed.)
3. **Automated Currency Checking**, Pentagram Research, Pattern recognition Division, Hyderabad, Funded by Tyche Peripheral Systems, Hyderabad. Project Cost: Rs. 20,00,000
4. **Finger Printing Classification**, in association with Micro Technologies, Mumbai, U.S. Project. Project cost: Rs 15,00,000
5. **Prospecting Gold in Chattisgarh**, in association with ENAM Securities and other Mining Companies, Mumbai, Project cost: Rs 7 Crores
6. **AMR using Pentagram Power Chips**, in association with IndVC, Mumbai and SPML, Bangalore, Project cost: Rs 1500 Crores

F. FIELDS OF INTEREST

Communication Engineering, Signal and Image Processing, Computer Vision, Pattern Recognition and Analysis, Modeling and Simulation, Systemics, Cybernetics and Informatics, Symbolic Computation, Automata Theory, Agent Technology, Molecular and Quantum Computing, Molecular Electronic Devices, Bioinformatics, Biometrics and Cryptography

G. PROFESSIONAL ACTIVITIES

Professional Member, ACM, U.S.A.; **Life Member**, Indian Society of Technical Education (ISTE), India; **Founder President**, Pentagram Research Center Private Limited, Hyderabad, India; **Faculty Advisor**, Indian Institute of Information Technology, Hyderabad, India; **Hon. Director**, International School of Information Technology, DSRF Research Foundation, Hyderabad, India; **Editorial Board Member**, AMSE, Barcelona, Spain; **Adviser**, LS Mechatronics, Hyderabad, India; **Member, Board of Governors**, Institute of Professional Education & Research, Bhopal, Madhya Pradesh, India., Chief Editor, International Journal of Systemics, Cybernetics and Informatics, India; Guest Editor, International Journal of Computer Applications, England, Member, IFSR, Austria

H. DEVELOPMENTAL ACTIVITIES

PARADIGMS AND SOFTWARE DEVELOPED	
Languages Known:	C, C++, VC++, Visual Studio.Net
Applications for:	Image Processing, Pattern Recognition
Concepts developed:	Symbolic Computing

Cellular Logic Array Processing (CLAP) version 1.0 IBM PC compatible software package for image processing, pattern recognition and array manipulation, developed in Turbo C.

Cellular Logic Array Processing (CLAP) version 2.0 IBM PC compatible software package for image processing, pattern recognition and array processing, developed for Transputer T800 system in Logical Systems C.

CLAPTEX, a commercially viable software package for generating patterns, developed in Visual C++.

CLAPIP, a commercially viable image processing software package developed in Visual C++. (Component Oriented Approach) **CLAPPR**, a software package for pattern recognition, developed in Visual C++ meant for automation purposes. (Component Oriented Approach)

CLAPGIS, a package for use in Geographic Information Systems and Remote Sensing Applications, developed in Visual C++. (Component Oriented Approach)

CLAPSA, a software package meant for space applications, especially for target seeking and collision avoidance purposes. This was developed in Visual C++. (Component Oriented Approach)

LIPS Version 3.0 (Logical Image Processing System), a software package meant for image processing applications. This was developed in C#.

LPGS Version 3.0 (Logical Pattern Generating System), a software package meant for pattern design applications. This was developed in C#.

LCCS Version 1.0 (Logical Currency Checking Processing System), a software package meant for checking the security thread in currency notes. This was developed in C#.

LCCS Version 2.0 (Logical Currency Checking Processing System), a software package meant for checking the genuineness of currency notes as per specifications of RBI. This was developed in C#.

MEDIMAGE Version 1.0 (Medical Imaging System), a software package meant for processing medical imageries. This was developed in C#.

PATHOSOFT Version 1.0 (Pathological Software System), an integrated software package with clinical microscope meant for morphological analysis of human body fluids. This was developed in C#.

SCS Version 1.0 (Solar Cooling System), an Indo-German project of a novel state-of-the-art technology for manufacturing solar cooling systems in India for freezing and comfort cooling. This project has been undertaken with the help of Professors Dieter Lukoschus and Braun and Dipl. Eng. Wolfgang of the the University of Gelsenkirchen, Germany.

I. INVITED PRESENTATIONS AND OPEN INVITATIONS

IIT Kanpur; IIT Madras; National Remote Sensing Agency, Hyderabad; RCI / DRDL, Hyderabad; University of Hyderabad; University of Maryland @ College Park; Florida State University, Tallahassee; Georgia Institute of Technology, Atlanta; Lincoln Laboratory, MIT, Cambridge; Pennsylvania State University @ State College; LSU, Baton Rouge, University of Southwestern Louisiana, La Fayette., University of Southern California., Russian Academy of Science, Syberia, Kepler University, Austria
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J. CONFERENCE ACTIVITIES

Judge for the session on Hardware for Computer Vision during the International Conference SURGE'94 held at Annamalai University, Chidambaram, Tamil Nadu 1994.

Judge for the session on Information Technology, during the National Technical Students' Seminar organized by the ISTE at Chaitanya Bharathi Institute of Technology, Hyderabad in 1996.

Chairman for a session on Circulatory Systems during the International Conference INCONBME'96 organized by the Biomedical Society of India at Coimbatore Institute of Technology, December 1996.

Program Committee member of SCI'97 World Conference on Systemics, Cybernetics and Informatics at Simon Bolivar University, Venezuela, 1997.

Chairman for a session on Medical Instrumentation during the National Conference on Advances in Biomedical Engineering, organized by Biomedical Society of India and Model College of Engineering, Cochin, 1997.

Key Note Address on Rajan Transform and its use in Image Processing and Pattern Recognition and Analysis during the National Conference on Advances in Biomedical Engineering, organized by Biomedical Society of India and Model College of Engineering, Cochin, 1997.

Chairman for a session on Medical Instrumentation and Measurements during the National Conference on Biomedical Engineering, organized by the Biomedical Society of India and Manipal Institute of Technology, 1998

Judge for the Graduate Students' M. A. Pai Memorial Paper Competition during the National Conference on Biomedical Engineering, organized by the Biomedical Society of India and Manipal Institute of Technology, 1998

Chairman for a session on Sensors and Control during the 14th International Conference on CAD/CAM, Robotics & Factories of the Future, organized by the ISPE, U.S.A. and the P.S.G. College of Technology, Coimbatore 1998.

Chairman for the session on Medical Imaging during the International Conference on BIOVISION2002, Indian Institute of Science, Bangalore, India, Dec. 2001

Chairman for the tutorial session on Biometrics during the International Conference on BIOVISION2002, Indian Institute of Science, Bangalore, India, December 2001.

Chairman for the International Conference on Systemics, Cybernetics and Informatics (ICSCI2004), Hyderabad, February 2004.

Chairman for the International Conference on Systemics, Cybernetics and Informatics (ICSCI2005), Hyderabad, January 2005.

Chairman for the International Conference on Systemics, Cybernetics and Informatics (ICSCI2006), Hyderabad, January 2006.

Program Committee Member, INFOCOMMUNICATIONAL AND COMPUTING TECHNOLOGIES AND SYSTEMS, (Ulan-Ude – lake Baikal), Organized by Institute for System Dynamics and Control Theory SB Russian Academy of Sciences and Ulan-Ude Branch, Buryat State University, East-Siberian State Technological University, Irkutsk State University, Analytical Network and Informational Society, Russia, July 1 – 4, 2006

Chairman for the International Conference on Systemics, Cybernetics and Informatics (ICSCI2007), Hyderabad, January 2007

Chairman for the International Conference on Systemics, Cybernetics and Informatics (ICSCI2008), Hyderabad, January 2008

Chairman for the International Conference on Systemics, Cybernetics and Informatics (ICSCI2009), Hyderabad, January 2009

Chairman for the International Conference on Systemics, Cybernetics and Informatics (ICSCI2010), Hyderabad, January 2010

K. PUBLICATIONS

BOOKS

1. A classified book on **Electronic Order of Battle Records of Military Radars**, published by the Cabinet Secretariat, Government of India, 1982.
2. Two books on **Computers and Information Technology**, Book Syndicate Publications, Hyderabad, July 2002.

3. A book on **Foundations of Information Technology**, Book Syndicate Publications, Hyderabad, July 2000.
4. A book on **Symbolic Computing – Signal and Image Processing**, Anshan Publications, Kent, United Kingdom, July 2003
5. A book on **Advanced Computing**, Book Syndicate Publications, Hyderabad, 2008

RESEARCH JOURNALS – Partial list

1. **Cellular Logic Array Processing Techniques for High-throughput Image Processing Systems**, SADHANA, Invited paper, Special Issue on Computer Vision, Volume 18, Part 2, June 1993, pp 279-300, Indian Academy of Sciences, Bangalore.
2. **On the Notion of Constructive Sets and Function Spaces**, Journal of Philosophical Logic, MIT Press, Cambridge 1991
3. **Cellular Logic Array Processing Part I and II**, Computer Graphics, Pergamon Press, 1991 and 1992
4. **A Deductive Theory of Space and Time**, AMSE, Royal Academy of Doctors, Barcelona, Spain 1999.
5. **On the Notion of Rajan Transform and its Applications**, International Journal of Universal Computer Science, Austria, 2005
6. **Nonnumerical Representation And Processing Of Signals And Images - Lecture Series-1**, International Journal of Systemics, Cybernetics and Informatics, pp 80-90, India, January 2006
7. **Modeling Of Collision Avoidance Processes**, International Journal of Systemics, Cybernetics and Informatics, pp 55-62, India, April 2006
8. **Normal Algorithms - Lecture Series-2**, International Journal of Systemics, Cybernetics and Informatics, pp 95-101, India, April 2006
9. **Signal Processing Considerations of Deoxyuridine 5'-triphosphate nucleotidohydrolase (duTPase) Gene**, International Journal of Systemics, Cybernetics and Informatics, pp 60-65, India, July 2006
10. **Normal Algorithms For Implementing Nonnumerical Signal Processing Operations - Lecture Series-3**, International Journal of Systemics, Cybernetics and Informatics, pp 72-75, India, July 2006
11. **Realization of Certain Normal Algorithmic Signal Processing Operations Lecture Series-4**, International Journal of Systemics, Cybernetics and Informatics, pp 79-93, India, October 2006
12. **Study Of Normal Algorithmic Signal Processing Systems In Terms Of Formal Languages Generated By a Grammar - Lecture Series – 5**, International Journal of Systemics, Cybernetics and Informatics, pp 84-91, India, January 2007
13. **Electronic Counter Support Measures (ECSM) – An Introduction**, International Journal of Systemics, Cybernetics and Informatics, pp 60-64, India, April 2007

14. **Special Automata for Normal Algorithms and their Transcriptions – Lecture Series-6**, International Journal of Systemics, Cybernetics and Informatics, pp 79-88, India, April 2007
15. **The Logic Of Constructive Signal Processing - Lecture Series-7**, International Journal of Systemics, Cybernetics and Informatics, pp 83-88, India, July 2007
16. **Homomorphisms In The Theory Of Constructive Signal Processing - Lecture Series-8**, International Journal of Systemics, Cybernetics and Informatics, pp 86-91, India, October, 2007
17. **Two Dimensional Image Understanding Using Rajan Transform**, Journal of Visualization, Japan, 2007
18. **Design of Frequency Coded Waveforms for Target Detection**, Institution of Engineering and Technology, United Kingdom, 2007
19. **A Deductive Theory of Space, Time and Consciousness**, International Journal of Systemics, Cybernetics and Informatics, pp 11-15, India, January 2008
20. **A Constructive Reformulation Of Extended Topological Filters Lecture Series-9**, International Journal of Systemics, Cybernetics and Informatics, pp 73-84, India, January 2008
21. **Quantifiable Measures Of Constructive Extended Filters In Terms Of Normal Algorithmic Operators (Lecture Series-10)**, International Journal of Systemics, Cybernetics and Informatics, pp 87-91, India, April 2008
22. **Cellular Automata And Their Realizations (Lecture Series-11)**, International Journal of Systemics, Cybernetics and Informatics, pp 86-95, India, July 2008
23. **Normal Algorithmic Realization Of Cellular Automata (Lecture Series-12)**, International Journal of Systemics, Cybernetics and Informatics, pp 75-81, India, October 2008
24. **Pattern Generation, (Lecture Series – 13)**, International Journal of Systemics, Cybernetics and Informatics, pp 71-77, India, January 2009

TECHNICAL REPORTS

1. Image Processing using Normal Algorithmic Cellular Automata, TR/IP-4-91, Department of Electrical Engineering, Indian Institute of Technology, Kanpur, 1991.
2. Pattern Directed Image Processing, TR/IP-5-91, Department of Electrical Engineering, Indian Institute of Technology, Kanpur, 1991

INTERNATIONAL CONFERENCES - Partial list

1. **High-throughput cellular logic array processing of remotely sensed imageries**, International Conference on Remote Sensing & GIS, JNTU, Hyderabad, 1992.

2. **High-throughput cellular logic array processing of satellite data for geophysical surveying**, invited paper, no. A.1-S.1.08, World Space Congress, Washington, DC, September 1992.
3. **Fast algorithm for detecting volumetric and superficial features in 3-D images**, International Conference on Biomedical Engineering, Osmania University, Hyderabad, 1994.
4. **Object recognition and tracking in a multiple target environment** 1994 IEEE International Conference on Systems, Man and Cybernetics, San Antonio, Texas, 1994, pp 2390-2395.
5. **Fast algorithm for skeletonizing 3-D images**, 8th International Conference on Biomedical Engineering, 1994, Singapore, pp 151-153
6. **A genetic algorithmic fixing of attack points in a moving target**, 1995 IEEE International Conference on Systems, Man and Cybernetics, Vancouver, B.C., Canada, 1995, pp 217-212.
7. **Genetic algorithms in the framework of Markov's constructive mathematical logic**, 1995 IEEE International Conference on Systems, Man and Cybernetics, Vancouver, B.C., Canada, 1995, pp 223-228.
8. **Neural automata based object recognition**, 1995 IEEE International Conference on Systems, Man and Cybernetics, Vancouver, B.C., Canada, 1995, pp 1882-1887.
9. **The notion of geometric filters and their use in computer vision**, 1995 IEEE International Conference on Systems, Man and Cybernetics, Vancouver, B.C., Canada, 1995, pp 4250-4255.
10. **Cellular logic array processing, invited paper**, World Congress for nonlinear analysts, organized by the International Federation of Nonlinear Analysts, Florida Institute of Technology, Athens, Greece, 1996.
11. **On the notion of a geometric filter and its relevance in the neighborhood processing of digital images in hexagonal grids**, 4th International Conference on Control, Automation, Robotics and Vision, Westim Stamford, Singapore 1996.
12. **Medical imaging in the framework of cellular logic array processing** 15th International Conference organized by the Biomedical Society of India, Coimbatore Institute of Technology, 1996.
13. **Use of Generalized Transformation in recognizing patterns due to defects in the weld**, invited paper, 8th International Conference on the Joining of Materials (JOM-8) by JOM Institute, Denmark and American Welding Society, Helsingor, Denmark, 1997.
14. **Markov's normal algorithms and their generalizations**, World Conference on Systemics, Cybernetics and Informatics, Caracas, Venezuela, 1997.
15. **Symbol manipulating techniques using Markov's normal algorithms**, World Conference on Systemics, Cybernetics and Informatics, Caracas, Venezuela, 1997.
16. **Nonnumerical signal processing using Markov's normal algorithms**, World Conference on Systemics, Cybernetics and Informatics, Caracas, Venezuela, 1997.

17. **An elementary formal system for representing constructive systems**, World Conference on Systemics, Cybernetics and Informatics, Caracas, Venezuela, 1997.
18. **Special automata for normal algorithms and their transcriptions**, World Conference on Systemics, Cybernetics and Informatics, Caracas, Venezuela, 1997.
19. **On the notion of generalized rapid transformation**, World Conference on Systemics, Cybernetics and Informatics, Caracas, Venezuela, 1997.
20. **A generalized rapid transformation based expert system for character understanding**, World Conference on Systemics, Cybernetics and Informatics, Caracas, Venezuela, 1997.
21. **Cellular Logic Array Processing of laser scanned data of metal surfaces**, 14th International Conference on CAD/CAM, Robotics & Factories of the Future, P.S.G. College of Technology, Coimbatore, Tamil Nadu, 1998.
22. Instantaneous Path Fixing of Autonomous Mobile Robots, IFAMNS 2000, International Conference on Intelligent Flexible Autonomous Manufacturing Systems, Coimbatore Institute of Technology, Coimbatore January 2000.
23. On the Notion of Rajan Transform and its Applications to Pattern Recognition, GSPx and International Signal Processing Conference, Dallas, U.S.A. March 31 – April 3, 2003
24. On-line Monitoring of Flank wear in Factory Automation, GSPx and International Signal Processing Conference, Dallas, U.S.A. March 31 – April 3, 2003

NATIONAL CONFERENCES – Partial list
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1. **Modeling and Simulation using Cellular Automata**, National Conference, organized by the IEEE local chapter, IIT Kanpur and Dayalbagh Institute of Technology, Agra, 1991.
2. **On the notion of geometric filters**, National Conference organized by the Institution of Engineers, India and Annamalai University, SURGE'94, 1994.
3. **Pextral coding of images**, National Conference organized by the Institution of Engineers, India and Annamalai University, SURGE'94, 1994.
4. **MEDIMAGE - a PC based medical image understanding system**, National Conference on Biomedical Engineering, organized by the Biomedical Society of India, at Model College of Engineering, Cochin, 1997.
5. **Cellular automata modeling of unidirectional fluid flow**, 11th conference of ISME (Indian Society of Mechanical Engineers) Indian Institute of Technology, Delhi, 1999.
6. **Thinning Lattice Gas Automaton model for solidification process**, 11th conference of ISME (Indian Society of Mechanical Engineers) Indian Institute of Technology, Delhi, 1999.

L. ADMINISTRATIVE AND ORGANIZATIONAL ACTIVITIES

ACADEMIC ADMINISTRATION

1. Board Member, Paavai Group of Institutions, Namakkial, Tamil Nadu
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5. Professor and Dean, School of Computing, Gokaraju Rangaraju Institute of Engineering and Technology, Hyderabad
6. Professor and Head, Department of Computer Science and Engineering, Vasavi College of Engineering, Hyderabad
7. R&D In-charge, Department of Electrical Engineering, Indian Institute of Technology, Kanpur.

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ORGANIZATIONAL ACTIVITIES

1. Chair, International Conference on Systemics, Cybernetics and Informatics, (ICSCI-2000), at IIT, Hyderabad
2. Chair, International Conference on Systemics, Cybernetics and Informatics, (ICSCI-2004), at Dr. MCR HRD Institute, Hyderabad
3. Chair, International Conference on Systemics, Cybernetics and Informatics, (ICSCI-2005), at Taramati Baradari Complex, Hyderabad
4. Chair, International Conference on Systemics, Cybernetics and Informatics, (ICSCI-2006), at Taramati Baradari Complex, Hyderabad
5. Chair, International Conference on Systemics, Cybernetics and Informatics, (ICSCI), 2007, at Dr. MCR HRD Institute, Hyderabad
6. Chair, International Conference on Systemics, Cybernetics and Informatics, (ICSCI-2008), at Taramati Baradari Complex, Hyderabad
7. Chair, International Conference on Systemics, Cybernetics and Informatics, (ICSCI-2009)
8. Designated Chair, International Conference on Systemics, Cybernetics and Informatics, (ICSCI-2010)

M. PEOPLE ASSOCIATED WITH ACADEMIC AND R&D ACTIVITIES

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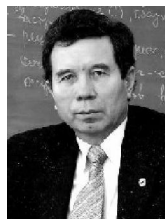
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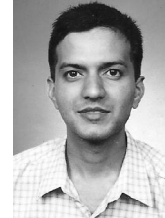
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O. ORIGINAL CONCEPTS INTRODUCED SINCE 1984

Sl. No.	Concept	Description	Applications
1	Constructive Theory of Signals and Systems	This theory was evolved in 1984 as a paradigm of Signals and Systems for the study of signals and systems. Markov's Normal Algorithms play a dominant role in this theory. The central idea is that signals are treated as subsets of free monoids and systems as string manipulating normal algorithms.	This theory forms a basis symbolic computation and Natural Intelligence modeling.
2	EFS(spl(A))	An Elementary Formal System developed for the formal study of non-numerical signal processing	Formal study of symbolic computation.
3	M-grammar	A grammar that connects Turing machines and Markov's Normal Algorithms by finitely specifying infinite systems which are called End justified Post-Turing (EPT) rewriting systems	Connects Chomsky's hierarchy of languages and Russian constructivism.
4	Lindenmayer Systems and their use in parallel processing of signals	A novel approach to signal processing using Aristid Lindenmayer's parallel grammar	Evolutionary type non-numerical signal processing
5	Th(k)	A logio mathematical theory for signal analysis developed in the heirarchical symantical system of languages called 'yah' due to A. A. Markov	Model theoretic approach to the theoretical study of signals and systems
6	Generalized Markov Algorithms (GMA)	The concept of Markov's Normal Algorithms which are applicable only to linear strings of symbols was extended to multi-dimensional arrays of symbols also. The GMA introduced is a variant of Caracciolo-de Fornio's S-GMA and CF-GMA.	Implementation of parallel processing systems using sequential processors
7	Constructive sets	This concept of constructive set was introduced in 1986 as a verboidal transcription defined over the alphabet $A = \{ 0, 1 \}$. This led to the formulation of Algorithmic Sets, Constructive function spaces and normal algorithmic operators	Constructive sets, Artificial Intelligence, Constructive theories based on sets, functions and analysis
8	Constructive Filters	These are extended topological filters developed based on the notion of Constructive Sets	Model Theoretic Study of Systems
9	Cellular Logic Array Processing (CLAP)	This concept was introduced in 1990 combining the notions of GMAs and Von Neumann's Cellular Spaces. CLAP is an idealized paradigm in which many high-throughput image processing algorithms have been developed	Pattern directed array processing of signals and images
10	Geometric Filters	Constructive filters developed over von Neumann window. Geometric filter bases are used as image processing operators. A novel image algebra was developed based on these filters	Signal theory, Image algebra, Modeling and simulation
11	Pextrum	Picture Spectrum is referred here as Pextrum. This is an extended notion of signal spectrum but based on geometric filters and image algebra. Pextral representation of 2D and 3D digital images is an important outcome of this research	Image compression, Shape recognition and analysis, Solid modeling

12	Representation and processing of digital images on hexagonal grid of pixels	Introduced with the idea of getting better rotational symmetry. The concept of geometric filters and image algebra has been remoulded for hexagonal grid of pixels.	Lattice Gas Automata studies, Radar image processing, Digital version of PPI scopes
13	Morphological image processing in hexagonal digital grid	Digital morphology extended to 3D grid and hexagonal grid images	Set Theoretic approach to the study of complex shapes and structures
14	Intelligent control using constructive logical methods	A paradigm developed in 1997 to model collision processes and to model autonomous mobile target seeking systems	Space surveillance, Missile technology, Mission critical control
15	Rajan Transform (RT)	A non linear transform introduced in 1997 which has been identified as a powerful spectral domain pattern recognizing tool. RT is used for character recognition, object recognition, data encryption and for hidden watermarking of digital images	Signature verification, Component sorting, Object identification, Non destructive testing, Image encryption
16	Cellular automata modeling of unidirectional fluid flow	Fluid mechanics reviewed in terms of geometric filters. This is a variant of ILG-LG hybrid lattice gas model for two-phase flow simulation	Flow analysis in nuclear reactors, Jet flow study, Flame analysis
17	Filter automata	Cellular automata viewed as IIR and FIR digital filters	Non numerical discrete signal processing
18	Modeling and simulation of solidification and aggregation using geometric filters	A novel method introduced to model thermal processes, especially the solidification process of uniform and non uniform metals	Crystal structure study, Fabrication methods of fiber reinforced castings
19	Machine vision aided component sorting	RT is used to sort components in an automated factory	Automated industries, Flexible manufacturing
20	Constructive Genetic Algorithms (CGA)	Genetic algorithms studied in the framework of Markov's Associative Calculus	Seeker head design for a homing system, Molecular and DNA computing
21	Neural automata based object recognition	Neural automaton is also called cybernetic machine. This concept has been evolved using the properties of cellular automata, genetic algorithms and Neural networks. Neural automata are trained in RT for pattern recognition purposes.	Electronic Support Measures (ESM), Electronic Warfare, Intelligent Weapon Systems, DNA computing
22	CLAP-GIS An integration of GRASS (US Army product) With CLAP	GRASS is a U.S Army public domain product. This package (version 4.1) was integrated with CLAP image processing algorithms	Remote sensing and GIS, Forest analysis and support systems
23	Flexinet	A novel networking concept which advocates genetic algorithms and cellular automata instead of optimization techniques and queuing theory for its study	Fast teletraffic, High speed internet, Road transport system, Nonlinear systems
24	Text embedding of digital images	Generally hidden watermarking of digital images employs a binary pattern (signature) embedding whereas text embedding advocates the mutation type of changes in the RT spectrum of an image, the changes being related to the alpha-numerals by a coding morphism	Image transmission with embedded text, HDTV, Police crime records, Secured Banking, Electronic Commerce
25	Set Theoretic Rajan Transform	Extension of Rajan Transform to sequences of sets	Spectral analysis of extended topological filters, Development of database and data mining tools

P. WEB SITE REFERENCES

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