

CURRICULUM VITAE

Name : Prof. K. Raja Rajeswari
Mobile : 9849238069
E-mail : krrauv@yahoo.com
krajeswari@gvpcew.ac.in
Present Occupation : Professor in ECE, Director (R&D),
GVPCEW



Educational Qualifications :

Qualification	University	Remarks	Class obtained
Ph.D	Andhra	Thesis Title: <i>Sequences for Range-resolution Radar</i>	Satisfactory
M.E	Andhra	-----	First
B.E (Electronics and Communication Engg.)	Andhra	-----	First

Academic/Professional Work Experience:

University/Institute	Duration	Position
JNTU, College of Engg., Kakinada	1979-82	Lecturer
Andhra University	1982-88	Lecturer
	1988-2000	Reader
	2000-2013	Professor
VITAM (Viswanadha Institute of Technology and Management)	2013-2016	Principal & Professor in ECE
ANITS, Visakhapatnam	2016-17	Professor & Dean (Projects)
GVP College of Engineering for Women	June 2017 till date	Professor in ECE and Director (R&D)

Areas of Interest : Radar and Sonar Signal Processing, Mobile Communications, Waveform Design for pulse compression Radar

Other Academic Positions held:

1. Head of the Department, Dept. of ECE, Andhra University, (1999-2001, 2003-2004).
2. Chairman, BoS, Dept. of ECE, Andhra University (2010-2013).
3. Member, BoS, JNTU, Kakinada (2009-12, 2012-15)
4. Director, Centre for Equal Opportunities for Women (CEOW), AUCE(A) (2008-2013)
5. Dean (Academics & Research), AUCE(A), Andhra University (2009-13)
6. Senate Member, NIT, Kurukshetra (2015-19)

7. BoS Member for GITAM (Gandhi Institute of Technology and Management), Visakhapatnam(2008-11)
8. Academic Council Member GITAM (2005-08)
9. BoS Member , GVPCE (A) (2005-08, 2008-11)
10. BoS Member for Gudlavelleru Engg. College(A) (2012-2015).

Professional Memberships:

1. Senior Member IEEE
2. Fellow, IETE
3. Member CSI,
4. Life Member EMI/EMC

Academic Achievements:

1. **Subject Expert Member** for DST (Department of Science and Technology), New Delhi for the period 2005-2019 under **Women Scientists Scheme**.
2. **Vice-Chairperson** (2004-2006), **Chairperson** of the IETE, Visakhapatnam Centre for two terms (2006-2008 & 2008-2010) .
3. **Governing Council Member** of IETE (The Institute of Electronics and Communication Engineers), New Delhi (2010-13), Chairperson for Technical Program Committee (TPC) and nominated as **South Zone Coordinator**.
4. **Second Time Elected as Governing Council Member** (2014-17), Chairperson for Women in Engineering (WIE) Committee and nominated as **East Zone Coordinator** twice.
5. Expert Member for Naval Research Board by DRDO in two panels Marine Systems and Sonar & Signal behaviour (2015-19).
6. **Ceptam Assessment, Subject Expert Member** appointed by DRTC Board ,DRDO, New Delhi as Selection Committee Member (2010-till date continuing).
7. **Faculty Selection Committee Member** for various universities.
8. **Examiner for Ph.D thesis evaluation for various universities.**
9. **Reviewer** for various International and National Journals.
10. **Member on Editorial Board** for various journals.

Awards:

1. **Best Researcher** Award from Andhra University for the year 2004.
2. **Distinguished Indian for lifetime achievement in academics, research and development** by Pentagon Research Centre, Hyderabad (2007).
3. **Bharat Jyothi** Award from India International Friendship Society, New Delhi (2008).
4. Prestigious **IETE Prof SVC Aiya Memorial National Award** in recognition of her contribution in providing guidance for researchers in Radar/Sonar Signal Processing and Wireless Communications for the year 2009.
5. **Dr. Sarvepalli Radhakrishnan Best Academician Award** for the year 2009 from Andhra University
6. **Diamond Jubilee Gold Medal** for her outstanding contribution in the field of IT and ICT for the year 2012-13 by the Institution of Electronics and Telecommunication Engineers (IETE), New Delhi.

Books Authored

1. **Digital Signal Processing** , IK International (2014)
K. Raja Rajeswari
2. **Signals and Systems**, Prentice Hall of India, Second Edition (2014)
K. Raja Rajeswari and B.V Rao
3. **Electronic Circuit Analysis**, Pearson Publishers (2011),
B.V. Rao, K. Raja Rajeswari
4. **Electronic Devices and Circuits** , Pearson Publishers (2011)
B.V. Rao, K. Raja Rajeswari

Projects Handled:

1. **“Digital Correlator for Optimum Detection of Coded Waveform Radar”** Sponsored by UGC.
2. Project on **“Advanced Coded Modulation Techniques for CDMA Communication Systems”**, sanctioned by AICTE, New Delhi, INR: 12 Lakhs (3 Years)
3. Internal Research Funding Project on **“Design and Development of 4G Mobile Test bed”** from Multimedia University, Malaysia.

Consultancy Projects:

1. Handled Consultancy project on **“Signal Design for Sonar”** funded by NSTL, Visakhapatnam, INR: 8.9 Lakhs(2 years)
2. Handled consultancy Project on **“Integration of Contact Motion Analysis (CMA) Algorithms & Sonar Track Simulator**, Funded by NSTL , Visakhapatnam , INR 9.0 Lakhs(2 Years)

Projects from DST, New Delhi under Women Scientists Scheme for which acted as Mentor:

1. **Versatile Signal Generator for Radar/Sonar Pulse Compression Codes**
Duration: 3 Years, INR: 21 Lakhs
2. **Robust Signal Processing Techniques for Radar/Sonar Signal Design Scenario**, Duration: 3 Years, INR: 20 Lakhs.

Foreign Assignments:

Served as Faculty Member in the Faculty of Engineering, Multimedia University (MMU), Kaulalumpur, Malaysia (2001-03).

Recent Foreign Visits:

Met Prof. Antonia Papatreou Suppapola at Arizona State University, Phoenix, USA for five to six times during the period July-October 2018 and held discussions to strengthen research on **Waveform Agile Sensing**. Visited the university labs and library and gone through recent Ph.D thesis in the area of Digital Signal Processing.

B.Tech Projects Guided: 250

M.Tech Projects Guided: 100

Research Guidance:

Guided 30 Ph.Ds in the area of Radar /Sonar pulse compression codes, Mobile communications. Some of them are listed below:

1. "Analysis and Design of Discrete Wavelet Based Multi User MIMO OFDM System" 2018, Vamsidhar Anagam.
2. "New NLFM (Non Linear Frequency Modulation waveform Design Techniques for Sonar Systems" , 2016 , B. Leelaram Prakash.
3. "Performance Evaluation of nonuniform PRI Radar Signals Using Optimization Techniques", 2014, G. Manmadha Rao.
4. "Non adaptive Signal Design Methods for MIMO Radar Systems", 2013, GVK Sarma.
5. "Performance Analysis of MIMO –OFDM System for Wireless Communications", 2013, V. Jagan Naveen.
6. "Adaboost based Empirical Mode Decomposition as a Robust Signal Processing Technique for Radar/Sonar Communications" 2013, Ch. Kusuma.
7. "Versatile Signal Generator for Radar and Sonar Pulse Compression Codes" , 2013, A. Nagajyothi
8. "Optimum Waveform Design for Radar Target Detection in various Scenarios Using Cross Ambiguity Function", 2012, M.V. Nageswara Rao
9. "Methodologies for the Best Code selection in Pulse Compression Radar", 2011, K. Srihari Rao (Obtained Gold Medal from Andhra University in 2013) .
10. "Performance Evaluation of Ultra Wide Band Waveforms in Pulse Compression Radar", 2011, Ch. Srinivasu
11. "Novel Approach for Radar Pulse Compression using Soft and Hard Evolutionary Computation Techniques", 2010, P. Srihari.
12. "Bounds on Discrimination and Merit Factor for Pulse Compression Radar Codes" 2010, A. Anand Kumar.
13. Extended and Unscented Kalman filters with Applications to Bearing -only Target Tracking " , 2010, S Koteswara Rao.
14. "Performance optimization for Robust and Oblivious Image Water Marking Schemes using Genetic Algorithms" 2010, K. Ramanjuneyulu.
15. "Design of Low Sidelobe Radar Codes Using Chaotic Mapping Techniques", 2010, J. Batricee Seventline.
16. "Modelling and Performance Assssment of MIMO OFDM for wireless Communications" 2008, Muralikrishna Kasi.
17. "Enhanced Signal Design Methodologies for range-resolution Radar", 2005, P. Rajesh Kumar.
18. "Signal Modelling for Sidelobe Reduction in Pulse Compression Radar", 2005, M. Uttara Kumari.
19. "Signal Design Studies for Sonar Scenario", 2005, K. Sudhakar.
20. "E- Governance Integrated Vision and Approach", 2005, B. Visvesvara Rao.
21. "Knowledge Based Algorithms for Source Identification", 2004, GN Swamy.
22. "Coded Waveform Design for range-resolution Radar", 2000, D. Elizabeth Rani.

Papers Presented at various International Conferences and chaired sessions in abroad

1. **"3-D Array Processing of Ternary Pulse Compression Sequences"** has been presented at IEEE International Conference on Signal Processing at Beijing, China, October 1996.
2. **Two papers** presented at **International Symposium on Information and Communication Systems** Conducted by Multimedia University, Kuala Lumpur, Malaysia during October 2002.
3. **Two papers** presented at **IEEE International Conference on Communication Systems** conducted by National University, Singapore during November 2002.
4. **Three papers** presented at Dallas, Texas, USA during March 2007, **chaired one session.**
5. **One paper** presented in **International Conference on Information Technology and Next Generations** at Las Vegas, USA, 27-29 April, 2009, **chaired one session.**

Papers Presented at various National/International Conferences and chaired sessions in India

1. **Conference on Signal Processing, Communications & Networking**, 23-26 July 1990
Indian Institute of Science, Bangalore.
2. **IETE Seminar & Exhibition**, 21-22 December 1990, Visakhapatnam.
3. **Seminar on Curriculum Development of Engineering Education**, 26-27 February 1993,
College of Engineering GITAM, Visakhapatnam.
4. **National Conference on Signal Processing, Communications & Networking**, 16-19 July
1997, Indian Institute of Science, Bangalore.
5. **IEEE International RADAR Symposium (IRSI)**, 19-22 December 2005, Indian Institute of
Science, Bangalore.
6. **National Conference on Soft Computing and Signal Processing (NCSP-06)**, 24-26 March
2006, Bhubaneswar.
7. **IEEE International RADAR Symposium India (IRSI)**, 12-14 December 2007, Indian
Institute of Science, Bangalore.
8. **International Conference on Systemics, Cybernetics and Informatics (ICSCI-08)**, 02-06
January 2008, Hyderabad.
9. Expert Talk in **"DST Women Scientist Scheme (WOS-A) Sensitization Workshop"**,
January 2009 at Women University, Banasthali, Jaipur (Rajasthan).
10. **International Symposium on Biologically Inspired Computing and Applications
(BICA-09)**, 21-22, December 2009, Bhubaneswar.

11. Expert Talk in “**DST Women Scientist Scheme (WOS-A) Sensitization Workshop**” 09-10 February 2010, JNTU Kakinada.
12. IETE Mid-Term Symposium on “**Making Telecom and IT Green-Challenges and Road Ahead**”, September 2010 New Delhi.
13. IETE Mid-Term Symposium on “**Telecom Paradigms-Indian Scenario**”, 15-17-April 2011, Bangalore.
14. “**Management and System Capacity Building Programme**”, 08-13 June 2008, ISB , Hyderabad.

Attended many Conferences/Seminars/Workshops and gave expert talks in Radar/Sonar Signal Processing, Wireless Communications and Curriculum Development.

Conferences / Workshops/ Symposia Organized

1. Organized One Day Seminar on **Role of IT in the New Age Broadcasting, (Sponsored by Broadcast Engineering Society (India) , 27th July 2019 at GVPCEW, Visakhapatnam.**
2. Organized A Three Day National Workshop on the topic **Cryptology and Cyber Security (WCCS-2018)** in the capacity of **Chairperson of the Workshop** during 22-24 March 2018 at Gayatri Vidya Parishad College of Engineering for Women (GVPCEW), Visakhapatnam.(Funded by CRSI (Cryptology Research Society of India, Kolkata).
3. Organized 49th IETE Mid Term Symposium (MTS-18) during 8-9 April 2018 in the capacity of **MTS Chair** at IETE Centre, Visakhapatnam in the premises of Andhra University, Visakhapatnam on the topic **Recent Trends in Wireless Communications.**
4. Convener for Seminar organized on **Futuristic Approach for Communication Technologies (FACT-2K)**, Feb 25-26, 2000, conducted by Dept. of ECE, Andhra University, Visakhapatnam.
5. **Technical Committee Chairman** for the IETE seminar on **Role of E- Acted as commerce in Accelerating Societal Transformation (RECAST-2K)**, 23-24 December 2000 conducted by IETE Centre, Visakhapatnam.
6. **AP-NeGeMo’ 2002** The third Asia Pacific Seminar on Next Generation Mobile Communications , International Seminar in collaboration with Yokosuka Research Park Japan , conducted by Multimedia University, Malaysia.
7. **IETE Seminar on State of Art Technologies (SAT-03) in Information, Communication and Entertainment (ICE)** during 20-21 September, 2003 at Visakhapatnam (in the capacity of Chair).
8. **Organized IETE Zonal Seminar on Emerging and Converging Technologies (SECT-07)** during 10-11 February, 2007 at Visakhapatnam in the capacity of Chair (Funded from TEQIP Funds).
9. Organized and acted as Chairperson IETE **National Conference on Advances in Signal Processing (NCASP 09)** during November 20-21, 2009 at Andhra University, Visakhapatnam (Funded by **DST**).
10. Organized A **Three Day DST Women Scientists Subject Expert Committee Meetings** for approval of projects up to Rs. 22 lakhs for 50 participants at Andhra University, Visakhapatnam during 2007, 2008 & 2010(Funded by **DST**).

11. Organized **Women Scientists Scheme (WOS) 5th Sensitization Workshop** funded by DST, New Delhi on 6th January 2008 during Indian Science Congress organized at Andhra University, Visakhapatnam.
12. Organized Workshop on **Women in Engineering and Technology: A Global Workforce** funded from TEQIP Funds, 23rd March 2009 at Andhra University, Visakhapatnam.

Recent publications

International Journals

1. **Noise Reduction in ECG Signals for Bio-telemetry**, V. Jagan Naveen, K. Murali Krishna, K. Raja Rajeswari, International Journal of Electrical and Computer Engineering (**IJCE**), Vol.9, No1, Feb. 2019, pp 505-511.
2. **Reduction of Side lobes of Radar Signals for Complementary Codes Using Particle Swarm Optimization**, D. Tirumala Rao, P. Rajesh Kumar, K. Raja Rajeswari, International Journal of Current Research and Review, Vol.9, Issue 22, November 2017, pp35-38.
3. **A New Approach to Investigation of Discrete Wavelet-Based Multiuser MIMO-OFDM for BPSK Modulation Scheme** A.Vamsidhar, P.Rajesh Kumar, K.Raja Rajeswari, Springer(Singapore) 2017, pp323-332.
4. **Performance Comparison of DWT and FFT based Multiuser MIMO-OFDM PAPR Reduction by Residue Number System** A. Vamsidhar, P. Rajesh Kumar, K. Raja Rajeswari, B. Suneetha International Journal of Wireless Networks and Communications vol.9 No. 1 2017, pp21-33.
5. **Fast implementation of Transmit Beam forming for Collocated MIMO Radar**. Sharma G.V.K., Raja Rajeswari.K, Radio Engineering, Vol.24 No.1 April, pp 171-177.
6. **Noisy Reverberation Suppression Using AdaBoost Based EMD in underwater Scenario** Kusuma Kumari Cheepurupalli and Raja Rajeswari Konduri International Journal of Oceanography, Volume 2014 Article ID 563780 pp 1-5.
7. **FPGA based generation and implementation of ternary sequences**, A Nagajyothi, K. Raja Rajeswari International journal of Computer Applications, volume 92, No.9, April 2014.

National Journals

1. **Generation of Radar NLFM signals for radar and sonar and their ambiguity studies** B. Leelaram Prakash, K Raja Rajeswari, Indian Journal of Science and Technology, August 2016, Vol. 9(29), pp 1-7.
2. **BER Estimation in UFMC System for Wireless Communications**, Murali Krishna, K., V. Jagan Naveen, K. Raja Rajeswari, Journal of Advanced Research Dynamical & Control Systems, Vol. 10, Special Issue 2018, pp294-299.

Conference Proceedings

1. **Frequency diversity waveform with NLFM signals**
K. Raja Rajeswari B, Leelaram Prakash International Conference on Information, Communications and Signal Processing (ICICS), December 2015, Singapore.

2. **MIMO Radar Ambiguity Analysis of Frequency Hopping Pulse Waveform** ,
Sharma GVK, Raja Rajeswari K. International Radar Conference, Cincinnati, Austin, TX,
USA, 19-24, May 2014 (IEEE Xplore)

Whole List of Publications

International Journals

1. **Progressive Bounds on Merit Factor**, P.S Moharir, K.Raja Rajeswari, K.Venkat Rao IEE, Electronic Letters, Vol.26, No.19, pp.,1584-1586, 1990.
2. **Algorithm for Design of Pulse Compression Radar Codes** IEE Electronic Letters, Volume 39 Number 11, 29 May, 2003 pp 865-866.
3. **E-Government Integrated Approach using Citizen's Life Cycle**, B.Visveswara Rao, K.Raja Rajeswari, B.Satyam WSEAS Transactions on Computers, Issue 3, Volume 2, July 2003.
4. **Speaker Dependent Word Recognition Based on Dempster-Shafer Theory using Linear Predictive Coding**, G.N Swamy, K.Raja Rajeswari, K.Murali Krishna, B.visveswara Rao, S.V.S. Ganesh WSEAS Transactions on Telecommunications and Informatics. Issue 1, Volume 3, January 2004 PP. 55-59.
5. **Low Sidelobe pattern using Woo Filter Concepts**, Uttara M. Kumari, K.Raja Rajeswari, Murali Krishna K, International Journal on Electronics and Communications (Germany), 59(2005) ELSEVIER Publishers, Science Direct, pp.499-501. Available online at www.sciencedirect.com.
6. **MIMO Channel Capacity measurement of uniform and exponential correlation matrix models**, K.Murali Krishna, K.Raja Rajeswari, G.N.Swamy International Journal on Systemics, Cybernetics and Informatics, January 06 pp 21-24.
7. **Sidelobe cancellation using Pade approximation technique**, AMSE (France Journal), M.Uttara Kumari, K.Raja Rajeswari
8. **Performance Analysis of Matched and Post Compression filters in the Presence of AWGN**, K.Sudhakar, K.Raja Rajeswari, International Journal of Systematics , Cybernetics and Informatics, April 06, pp15-21.
9. **New Figures of Merit for Range-resolution Radar using Hard and Soft decision concepts**, K.Raja Rajeswari, P.Srihari, P.Rajesh Kumar , M.Murali, V. Jagan Naveen , G. Manmadha Rao, WSEAS Transactions on Signal Processing, Issue 3, Volume3, March 2007, pp 282-288.
10. **Filter Model for reduced sidelobes in pulse compression Radar**, K.Raja Rajeswari, M. Uttarakumari, Ch. Srinivasu, B.Leelaram Prakash, WSEAS Transactions on Signal Processing, Issue 4, Volume3, April 2007, pp 308-312.
11. **Fuzzy modelling for discrimination and merit factor of radar Coded waveforms** P.Srihari, P.Rajesh Kumar. D. Thirumala Rao, K.Raja Rajeswari WSEAS Transactions on Signal Processing, Issue 4, Volume3, April 2007, pp 313-320.
12. **Applications of Kalman Filter for Data Fusion in Multi-sensor environment of Underwater and Ship Surveillance System**, S. Koteswara Rao, K.Raja Rajeswari and K.S. Linga Murthy International Journal on Systemics, Cybernetics and Informatics, October 2008, pp 11-17.
13. **Data Fusion for Underwater Target Tracking, IET, Radar, Sonar and Navigation 2010**, S. Koteswara Rao, K.S. Linga Murthy and K.Raja Rajeswari, vol 4, issue 4, 2010, pp 576-585.

14. **An Oblivious Image Watermarking Scheme Using Multiple Description Coding and Genetic Algorithm**, International Journal of Computer Science and Network Security (IJCSNS), K. Ramanjaneyulu and K. Raja Rajeswari, Vol. 10, No. 5, May 2010, pp 167-174.
15. **Ternary Chaotic Pulse Compression Sequences**, J.B.Seventline, D.Elizabeth Rani, K.Raja Rajeswari, Radioengineering, vol. 19, No. 3, September 2010, pp. 415-420.
16. **An Oblivious and Robust Multiple Imago Watermarking Scheme Using Genetic Algoritmo**, K. Raja Rajeswari, K. Ramanjuneyulu, International Journal of Multimedia & Applications (IJMA), vol. 2, No.3, August 2010, pp. 19-38.
17. **Performance Analysis of MC-CDMA and OFDM in Wireless Rayleigh Channel**, International Jornal of Avanced Science and Technology (IJAST), V. Jagan Naveen, K. Murali Krishna and Prof. K.Raja Rajeswari, Vol. 25, December 2010, pp. 17-30.
18. **New Approach to MFR Design with an $\alpha - \beta$ filters**, International Jornal of Smart Home (IJSH), G.Manmadha Rao and Prof. K. Raja Rajeswari, Vol. 5, No. 1, January 2011, pp. 23-30.
19. **Auto Correlation Properties using Múltiple Ultra Wide Band (UWB) Pulses**, International Jornal of Engineering Science & Technology, Ch.Srinivasu and Prof.K.Raja Rajeswari, Vol. 3, No. 4, April 2011, pp. 2939-2944.
20. **Ambiguity Surfaces of Bi-Phase Codes Using Ultra Wide Band (UWB) Pulses in High-Resolution Radar**, International Jornal of Digital Sigantl Processing , Ch.Srinivasu and Prof.K.Raja Rajeswari, Vol. 3, No. 4, May 2011, pp. 159-164.
21. **Ambiguity surfaces of chirp signals in a high-resolution radar**, International Journal of Avanced Engineering Research (IJAER), Ch.Srinivasu and Prof.K.Raja Rajeswari.
22. **Penetration Capablities of 2nd derivative Ultra Wide Band (UWB) Pulses**, International Journal of Engineering Science and Tecnólogo (IJEST), Ch.Srinivasu and Prof.K.Raja Rajeswari.
23. **Target Detection with Cross Ambiguity Function using Binary Sequences with high Discrimination** M. V. Nageswara Rao, K.Raja Rajeswari,.International Journal of Computer Applications (0975 – 8887),Volume 16– No.4, February 2011,pp.8-11.
24. **Wavelet based oblivious image watermarking scheme using Genetic Algorithm**, K. Ramanjuneyulu, K. Raja Rajeswari, IET Image Processing 6(4), pp.364-373.
25. **Design of Ternary Sequences using PSOCM for Target Detection with CAF**, M. V. Nageswara Rao, K. Raja Rajeswari, International Journal of Wireless Communication, Vol. 3, No 3, March 2011, pp188-192.
26. **Design of Discrete Frequency Coded Sequences using PSOCM for Target Detection with CAF**. M. V. Nageswara Rao, K. Raja Rajeswari, RADIOENGINEERING, VOL.20, NO.1, APRIL 2011,pp69-73.
27. **Design of Polyphase Sequences using PSOCM for Target Detection with Cross Ambiguity Function**, M. V. Nageswara Rao, K. Raja Rajeswari International Journal on Communications, Antennas and Propagation – April 2011 (Vol. 1 N. 2).
28. **Performance Comparison Between Gaussian NLFM and Rayleigh NLFM Signals** K. Raja Rajeswari, B. Leelaram Prakash, International Journal of Engineering Science and Technology, Vol. 3. No.7, July 2011, pp5907-5913.
29. **Performance Evaluation of combination of Gaussian NLFM and Rayleigh NLFM Signals**. K.Raja Rajeswari, B. Leelaram Prakash International Journal of Digital Signal Processing Vol.3 No.10, November 2011, pp 458-461.

National journals

1. **Amplitude Bounds on Symmetric Functions Transform Coefficients**, P.S Mohair, K.Raja Rajeswari, K.Venkata Rao Journal of IETE, Vol.36, No.2, pp.93-96, 1990.
2. **New Figures of Merit for Pulse Compression Sequences** , P.S Mohair, K.Raja Rajeswari, K.Venkata Rao Journal of IETE, Vol.33,No.4,pp. 209-216, July 1992.
3. **Unscented Kalman Filter with Application Bearings- Only Target Tracking**, S. Koteswara Rao, K. Raja Rajeswari, K.S. Linga Murty Journal of IETE, Volume 55,PP.63-67 , March-April2009.
4. **Algorithm for the Generation of a Suitable Code from the Known Code Applicable to Optimum Radar Signal Processing**, IEEMA Journal, XVIII, No.2, pp.18-22 February 1998.

International Conference Proceedings

1. **3D Array Processing of Ternary Pulse Compression Sequences**, IEEE, 3rd International Conference on Signal Processing (ICSP'96), pp. 424-426, 14-18 October 1996, Beijing, China.
2. **Time-Delay Estimation Using MLE Approach for Wide-Band Radar Systems**, International Conference on Signal Processing (ICSP'96), Beijing, China, 12-16, October 1998.
3. **Linear Prediction Filtering Approach for Radar Signal Processing**, Proc. Of 7th IEEE Mediterranean Conference on Control and Automation, 28-30, June 1999, Haifa, Israel.
4. **An Intelligent Algorithm for Target Identification in Secure Communications** , Proceedings of Multimedia University International Symposium on Information and Communication Technologies (**M2USIC2002**), Kuala Lumpur , Malaysia , 2-3 October,2002, pp 121-124.
5. **A Novel Approach for stability for two dimensional (2-D) Non Symmetric Half Plane (NSHP) Recursive Digital Filters** Proceedings of Multimedia University International Symposium on Information and Communication Technologies (**M2USIC2002**), Kuala Lumpur, Malaysia, 2-3 October 2002, pp 70-73.
6. **Channel Estimation from known Preamble Sequences** Proceedings of IEEE International Conference on Communication Systems (**ICCS2002**), Singapore 25-28, November , 2002.
7. **Sidelobe Reduction Techniques for Range-resolution Radar** Proceedings of IEEE International Conference on Communication Systems (**ICCS2002**), Singapore 25-28 , November , 2002.
8. **E-Governance-Integrated Vision and Approach** GITMA 2003 Proceedings of the Fourth Annual Global Information Technology Management World Conference , June 8-10 2003, Calgary, Canada PP. 179-182.
9. **Performance evaluation of Figures of Merit for range resolution radar**, IEEE International conference on signal processing, SPCOM 2004, IISc, Bangalore, 11-14 Dec. 2004.
10. **Performance Analysis of Coded Waveform RADAR**, International conference on Systemics, Cybernetics and Informatics (ICSCI- 05) 6-9 January 2005, Hyderabad, India.
11. **D Array Formation Techniques for Correlation and Convolution Estimation**, International conference on Systemics, Cybernetics and Informatics (ICSCI-05) 6-9 January 2005. Hyderabad , India.

12. **A New polyphase Code for Low Side Lobe Autocorrelation Function**, International conference on Systemics, Cybernetics and Informatics (ICSCI-05)6-9 January 2005. Hyderabad, India.
13. **Isolated Word Recognition for Hindi Language Using Correlation Techniques**, International conference on Systemics, Cybernetics and Informatics (ICSCI-05) 6-9 January 2005, Hyderabad, India.
14. **MIMO Channel Capacity Measurement of Uniform and exponential Correlation matrix models**, International conference on Systemics, Cybernetics and Informatics (ICSCI-05) 6-9 January 2005, Hyderabad, India.
15. **Sidelobe reduction of radar signal by overlaying technique** IEEE International Radar Symposium (IRIS 05), Dec. 19-22, 05 Bangalore.
16. **Performance Analysis of Matched and Post Compression filters In the presence of AWGN**, International conference on Systemics, Cybernetics and Informatics (ICSCI-06) pp.1-7, 04-08, January 2006. Hyderabad, India.
17. **Performance Analysis of Matched Filter of Radar signals**, International conference on Systemics, Cybernetics and Informatics (ICSCI-06), pp.8-11, 04-08, January 2006, Hyderabad.
18. **Fuzzy Modelling of Radar Signals for Range Resolution-An Approach**, International conference on Systemics, Cybernetics and Informatics (ICSCI-06) , pp.327- 331 , 04-08, January 2006., Hyderabad, India.
19. **3D Array formation techniques for Correlation and Convolution Techniques**, International conference on Systemics, Cybernetics and Informatics (ICSCI-06) .636-640,04-08, January 2006., Hyderabad, India.
20. **Peak – to – average Power control in OFDM using Multiple Signal representation**, International conference on Systemics, Cybernetics and Informatics (ICSCI-06) India, pp.940-944, 04-08, January 2006., Hyderabad, India.
21. **MIMO-OFDM Channel Estimation using special training Sequences**, International conference on Systemics, Cybernetics and Informatics (ICSCI-07) India, pp.812-816, 03-07, January 2007, Hyderabad, India.
22. **Performance Study of Wireless LAN IEEE 802.11a PHY**, International conference on Systemics, Cybernetics and Informatics (ICSCI-07) India, pp.817-821, 03-07, January 2007, Hyderabad, India.
23. **Bounds on Discrimination and Merit Factor for Pulse Compression Codes**, International conference on Systemics, Cybernetics and Informatics (ICSCI-07) India, pp.822-827, 03-07, January 2007, Hyderabad, India.
24. **Merit Measure Analysis of Extended Polyphase Code**, International conference on Systemics, Cybernetics and Informatics (ICSCI-07) India, pp.828-830, 03-07, January 2007, Hyderabad, India.
25. **A Recursive Multistage Estimator for bearings only Passive Target Tracking in ESM EW System , Proceeding of the** International Conference on advances in Control and optimization Dynamic Systems (ACODS20070, Feb 01-01, IISc , Bangalore, pp.44-48.
26. **New figures of Merit for Range Resolution Radar Using Hamming And Euclidean distance Concepts**, presented at WSEAS International Conference on Signal Processing (SIP-07) held at Dallas, Texas, USA during 22-24 March-07 and published in the Proceedings of WSEAS International conference on Multimedia Systems and Signal Processing (MUSP-07), Hangzhou, China, April 15-17,2007 pp.139-145.
27. **Fuzzy Modelling for Discrimination and Merit Factor of Radar Signals for Range Resolution**, presented at WSEAS International Conference on Signal Processing (SIP-07)

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