



Professor Allam Appa Rao
Vice Chancellor, JNTU Kakinada, Andhra Pradesh

Dr Allam Appa Rao received his Ph. D in the year 1984 from Andhra University, Visakhapatnam. During his more than four decades of professional experience, he shared his wisdom with fellow engineers and scientists across the globe through his innumerable research papers published in international journals and international conference proceedings.

15 scholars were awarded Ph. D degrees under his tutelage. Best Academician Award and Best Researcher Award were bestowed on him by Andhra University. Andhra Pradesh Government awarded him best Teacher award.

Prof Allam feels that there is a range of wild problems which can be effectively solved using computers; such as, modeling the operation of the human brain; and the role of logic in problem-solving. He also feels that Computer Engineering (CE) has direct links with many other branches of human knowledge such as Psychology, Cognitive Sciences, Linguistics, and Management. According to him, the multidisciplinary nature of Computer engineering inherits unlimited opportunities for discovering new applications and exploring new research directions.

Prof Allam's research contributions in Computer engineering are vital, varied and vast. He believes that Computer engineering is the "third pillar" that supports research, along with the pillars of theory and experimentation. He firmly believes that Computer engineering is an essential component to implement and strengthen any country's technological, economic and social goals. According to him the Information Technology (IT) is a symbiosis between Computer engineering and other disciplines and mediates new interactions among the technologies, in multiple levels and scales.

Prof Allam believes that the recent human genome breakthrough is the result from the work of multi-disciplinary teams where cooperation from computer experts was a fundamental ingredient. He stresses that the Cells and cellular systems require viewing them as information processing systems, as evidenced by the fundamental similarity between molecular machines of the living cell and computational automata, and by the natural fit between computer process algebras and biological signaling and between computational logical circuits and regulatory systems in the cell.

Prof Allam's current research work is influenced by his fascination about the mysteries that remain in the catalogue of human genes. He believes that a systematic approach to the acquisition, management, and analysis of information available in human genes and their study can greatly enhance the quality and efficiency of medicines. He believes that there is much to learn about the relationship of genes and disease, as well as the possible role of large sections of our DNA that seem to be junk with no function, leftover from evolution.

Dr Allam proposed new computing methods, and showed the way to better treatments of disease and better understanding of healthy life. Perhaps even more intriguing, his work may enable the design of entirely novel systems that could prove useful in applications ranging from medicines to environmental cleanup and more. He has published in PubMed <http://www.ncbi.nlm.nih.gov/pubmed/>

Prof Allam is hailed by his innumerable student friends across the globe as a man of unfathomable knowledge and by his friends as a wonderful human being.

Present Position

Vice Chancellor
Jawaharlal Nehru Technological University: Kakinada, AP,
India

Contact

**+91-884 2300 888 (Office), +91-884 2300 800 (Fax),
+91-98481 85922 (Personal Cell)
E Mails: vc@jntukakinada.edu.in, apparaoallam@gmail.com
Web Site: www.allamapparao.org**

Permanent Home Address:

4-51-19/1, Lawson's Bay Colony, Visakhapatnam - 530 017

Date & Place of Birth

28th December, 1949, L' Kota, Vizianagaram (Dist), AP

Qualifications:

1. PhD (Engg), 1984, (Computer Engineering), Andhra University (AU), Visakhapatnam
2. MA, 1975, (Economics: Mathematical Economics and Econometrics), AU
3. BSc, 1967, (Mathematics, Physics and Chemistry), AU

Continuing Education

1. Post Graduate Diploma in Applied Statistics, AU
2. Post Graduate Certificate Course in Computer Science, Indian Statistical Institute (ISI), Kolkata
3. International Certificate Course in Systems Analysis and Design, International Centre for Theoretical Physics (ICTP) (TWAS, Italy)
4. Certificate Course on Digital Processing of Remotely Sensed Data (Space Applications Center, Ahmadabad)

Professional Certifications

1. Chartered Engineer (Computer Engineering Division), Institution of Engineers (India), F - 111382-4
2. Approved Valuer (Computer Technology), The Institution of Valuers, F 18504

3 Academic Excellence Achievement Awards

1. Best Researcher in Engineering in recognition of commendable record of research in Engineering, Andhra University, Visakhapatnam, India, 2003
2. Best Teacher in recognition of distinguished service as a teacher, Government of Andhra Pradesh, Hyderabad, India, 2006
3. The first ever recipient of Dr Sarvepalli Radhakrishnan (former President of India) Award for Best Academician in recognition of commendable record of Research and Teaching, Andhra University, Visakhapatnam, India, 2006

Honours

Elected Fellow of 6 Professional Organizations/ Societies

1. Elected FELLOW Society for Design and Process Science (SDPS), USA, (The first Professional Trans-disciplinary Society)
2. Elected FELLOW Institution of Engineers (India), FIE, F-111382/4
3. Elected FELLOW Institution of Electronics and Telecommunication Engineers, FIETE, F - 188536, India
4. Elected FELLOW Indian Institution of Bridge Engineers, India FIIBE, LF-1667
5. Fellow Member, International Society for Intelligent Biological Medicine (FISIBM) <http://www.isibm.org/fellows.php>
6. Fellow Institution of Valuers, India, F-18504/XV, Computer Technology including Electronics and Telecommunication Engineering (FIV)

7. Honorary Fellow of Indian Institute of Chemical Engineers (IChE) HF – 37899
8. Elected Fellow, Royal Statistical Society, FRSS, 115183

6 International Editorial Boards

1. Area Editor: Journal of Integrated Design & Process Science: ISSN: 1092-0617
2. Editorial Board Member (as Reviewer) for the Journal - International Journal of Modern Engineering (IJME)
3. Editorial Review Board Member: Academy of Information and Management Sciences Journal (AIMSJ)
4. International Advisory Board Member for Scientific Journal International (SJI)
5. Area Editor: Society for Design and Process Science (SDPS) - Journals
6. Clinical Medicine: Endocrinology and Diabetes ISSN: 1178-1173

11 International Conference Chairs

1. Invited Talk at V International Conference on Systems Integration (ICSI'08),” to be held from Nov 09-11, 2008 at the Brasil XI Convention Center in Brasilia, Brazil.
2. Co Chair: Bioinformatics Panel Indian Science Congress January 3-7, 2008
3. Honorary Advisory Committee 11th World Conference on INTEGRATED DESIGN & PROCESS TECHNOLOGY (IDPT 08), Taichung, Taiwan, June 1-6, 2008
4. Distinguished Speaker 11th World Conference on INTEGRATED DESIGN & PROCESS TECHNOLOGY (IDPT 08), Taichung, Taiwan, June 1-6, 2008
5. Distinguished Speaker International Conference on System Integration (ICSI 07), Brasalia, Brazil, 2-5 December 2007
6. Invited Speaker, 10th World Conference on INTEGRATED DESIGN & PROCESS TECHNOLOGY (IDPT 07), Antalya, Turkey, June 4-8, 2007
7. Conference Chair: 9th Annual IJME/INTERTECH Joint International Conference on Engineering and Technology: Research-Education-Entrepreneurship, Oct. 19-21, 2006, Kean University, New York City, USA
8. Distinguished Speaker in IEEE Computer Society 18th International Conference on Tools with Artificial Intelligence (ICTAI 06), Nov. 13-15, 2006 in Washington DC, USA. <http://csdl2.computer.org/persagen/DLabsToc.jsp?resourcePath=/dl/proceedings/&toc=comp/proceedings/ictai/2006/2728/00/2728toc.xml&DOI=10.1109/ICTAI.2006.101>, <http://portal.acm.org/citation.cfm?id=1190614.1191091&coll=GUIDE&dl=GUIDE&CFID=23107157&CFTOKEN=23207921>
9. Keynote Speaker “Mathematical analysis of Diabetes Mellitus related proteins having high sequence complexity” in IEEE Computer Society 6th International Symposium on Bioinformatics and BioEngineering (BIBE 06), Oct. 16-18, 2006 in Washington DC, USA.
10. Distinguished Speaker: 9th World Conference on INTEGRATED DESIGN & PROCESS TECHNOLOGY (IDPT 06), June 25-30 2006, San Diego, California, USA
11. Invited Speaker: 33rd Annual Conference of Research Society for the Study of Diabetes in India (RSSDI), 23-25 September, 2005, Bangalore, India

4 International Program Committees

1. IV International Conference on System Integration (ICSI 07), Brasilia, Brazil
2. International Program Committee Member: International Conference on Bioinformatics and Computational Biology (BIOCOMP 07)
3. International Program Committee Member: International Conference on Software Engineering Research and Practice (SERP 07)
4. International Program Committee Member: 10th World Conference on INTEGRATED DESIGN & PROCESS TECHNOLOGY (IDPT 07)

21 Grants (Grantsmanship)

1. DoE: **Department of Electronics–Technology Development Council (TDC) Project on Computer Aided Instruction in PASCAL & FORTRAN 77, Year of Sanction: 1984, Amount: Rs. 13,35,300/-**
2. DST: **Department of Science and Technology : Project on Data Bases & Thematic Maps, Year of Sanction: 1989, Amount: Rs. 3,00,000/-, Sanction: F- ES/11/038/86 dt.31-01-89**

3. MHRD: Ministry of Human Resource Development - Project on Pattern Analysis Using Mathematical Morphological Methods, Year of Sanction: 1989, Amount: Rs. 13,50,000/-, Sanction: F-20-2/88 T.14 dt 14-02-89
4. MHRD: Project on Pattern Analysis Using Mathematical Morphological Methods (Extension), Year of Sanction:: 1991, Amount: Rs. 2,00,000/-, Sanction: F-19-2/90 TD.VI (PT.1) dated 19-03-91
5. CLASS – Computer Literacy And Studies in Schools, Year of Sanction: 1990, Amount: Rs. 10,00,000/-
6. MHRD: Project on Institute for Software Engineering & Expert Systems, Year of Sanction: 1991, Amount: Rs 8,00,000/-, Sanction: F.1-4/90.TD.VI dt 10-01-91
7. MHRD Project on Computer Aided Environmental Planning Through Health Impact Assessment for Visakhapatnam, Year of sanction: 1992,Amount: Rs. 8,00,000/-, Sanction: F.2.9/91.TD.VI dt 21-01-92
8. MHRD Project on Development of Software Using Neural Networks Methodology, Year of Sanction: 1992, Amount: Rs 10,00,000/-,Sanction:F.1.4/91.TD.VI dt 27-01-92
9. MHRD Project on Development of Neural Networks Laboratory, Year of Sanction: 1992, Amount: Rs10,00,000/-, Sanction:F.17.1/91.TD.VI dt 04-03-92
10. DRDO: Defence Research Development Organization-Directorate of Training and Sponsored Research Project: MSc (Computer Software), Sanction: DRDO/85016/OSD/ANDH-ACTT/CC(A), Amount: Rs 2,00,00,000/-
11. MHRD Project on Modernization of Software Laboratory, Year of Sanction: 1992, Amount: Rs 10,00,000/-, Sanction:F.3.1/91.TD.VI dt 27-02-92
12. University Grants Commission (UGC), Project on Design of Parser and Lexical Analyzer, Year of Sanction: 1993, Amount: Rs 2,53,000/-, Sanction: F.4.16/91(T-II) SR-I) dt 13-03-95
13. MHRD Project on Object Recognition System, Year of Sanction: 1993, Amount: Rs.10,00,000/-, Sanction: F.1.1/92.TD.VI dt 25-01-93
14. MHRD Project on Prototype of Wrist Sensor for use in Industrial Robots, Year of Sanction: 1993, Amount: Rs 5,00,000/-, Sanction: F.1.1/92.TD.VI dt 25-01-93
15. MHRD Project on Development of Computer Aided Instruction Laboratory (CAI), Year of Sanction: 1993, Amount: Rs. 8,00,000/-, Sanction: F.3.1/93.TD.VI dt 22-11-93
16. MHRD Project on Development of Artificial Intelligence Laboratory, Year of Sanction: 1993, Amount: Rs 10,00,000/-, Sanction: F.3.1/91.TD.VI dated 21-01-93
17. MHRD Project on Development of Informatics laboratory, Year of Sanction: 1993, Amount: Rs. 10,00,000/-, Sanction: F.3.1/91.TD.VI dated 12-01-93
18. MHRD Project on Development of Networks laboratory, Year of Sanction: 1993, Amount: Rs. 10,00,000/-, Sanction: F.3.1/91.TD.VI dated 12-01-93
19. MHRD Project on Knowledge Support System for Resource Allocation, Year of Sanction: 1994, Amount: Rs 5,00,000/-, Sanction: F.2.2/93.TD.VI dt 24-03-94
20. AICTE: All India Council for Technical Education , Project on Design of a PC-Based Real-Time Vision System for a Welding Robot Arm, Year of Sanction: 1998, Amount: Rs 5,00,000/-, Sanction: F.No.8017/RDII/Comp./260/98 dt.20-03-98
21. AICTE Project on Design of a Vision System, Year of Sanction: 1999-2000, Amount: Rs 10,00,000, Sanction: No.8018/RDII/BOR/R&D (180)/99-2000 dt.24-03-2000

40 years of Professional History:

1. Currently Vice Chancellor, JNTU: Kakinada, AP, India
2. Principal, Andhra University College of Engineering (Autonomous), Visakhapatnam
3. Dean/ Chairman: Faculty of Engineering, Andhra University
4. Academic Senate Member, Andhra University
5. Professor, Andhra University, From 05-05-1987
6. Chairman: Board of Studies in Computer Science and Engineering, Andhra University, April 1999 - June 2002
7. Head: Department of Computer Science and Systems Engineering, Andhra University, September 1991 - September 1994

8. Chief Warden: Andhra University Engineering College Hostels, November 1991 - September 1994, Student and Hostel Administration apart from Teaching and Research
9. Course Coordinator: DRDO-DTSR Project, Andhra University, 1986-1992, MSc (Computer Software) course Management and Instruction apart from Regular Teaching and Research
10. Professor/ Professor cadre/ Director/ Head University Computer Center, Andhra University, August 1985, PG Teaching, Software Design and development and Administration
11. Head/ Director Andhra University Computer Center, June 1984 - July 1985, PG Teaching Software Design and Development and Administration
12. In-charge: Andhra University Computer Center, June 1976 - May 1984, Software Development, Training Programs, Research, Management, Academic Administration
13. Computer Professional, Andhra University Physics Department / Computer Center, December 1967 - May 1976, Data Preparation and Software Development

5 International Workshops / Seminars / Symposia organized

1. IWTR 2008: International Workshop on Translational Research
2. IWTER 2007: International Workshop on Transdisciplinary Education and Research
3. CERATEC 2007: **International Conference on Ceramic Technology, January 8-10, 2007, <http://www.ceratec2007.com/index.html>**
4. ICBDM 2006: **International Conference on Bioinformatics and Diabetes Mellitus 25th to 27th March 2006, Andhra University, Visakhapatnam**
5. WIPRA 96: Workshop on Image Processing Applications

4 Areas of Specializations:

Please visit www.allamapparao.org for more details

1. Bioinformatics and Computational Biology
2. Knowledge Management
3. Software Engineering
4. Network Security

Current Area of Research:

Finding solutions to formal and practical problems inspired from the computational management and computational analysis of biological data with the paradigm of crystallization of computational thinking.

Patents Filed at Review Stage

1. **Method(s) of stabilizing and potentiating the actions and administration of Brain-Derived Neurotrophic Factor (BDNF)** Inventors: Appa Rao Allam and U N Das. A method of stabilizing and potentiating actions and administration of neurotrophins such as brain-derived neurotrophic factor (BDNF), neurotrophin-3, neurotrophin-4, and nerve growth factor and their receptors by using in coupling conjugation with polyunsaturated fatty acids (PUFAs) in the prevention and/or treatment of obesity, type 2 diabetes mellitus, metabolic syndrome X, Alzheimer's disease, depression, Parkinson's disease, and schizophrenia is described. The invention is directed to the efficacious use of various neurotrophins by using them in combination with polyunsaturated fatty acids chosen from linoleic acid, gamma-linolenic acid, dihomo-gamma-linolenic acid, arachidonic acid, alpha-linolenic acid, eicosapentaenoic acid,

docosahexaenoic acid, cis-parinaric acid, docosapentaenoic acid and conjugated linoleic acid in predetermined quantities. The invention also provides methods of efficiently delivering neurotrophins to the desired areas of the brain by complexing or conjugating with PUFAs, so that they are able to cross blood brain barrier efficiently and reach the desired regions of the brain in adequate amounts. IPC8 Class: AA61K3818FI USPC Class: 514 12 <http://www.faqs.org/patents/inv/83318>

2. **Method(s) of preventing, arresting, reversing and treatment of atherosclerosis** Inventors: Allam Appa Rao and U N Das. A method of preventing, arresting, reversing and treatment of atherosclerosis by enhancing the activities of .DELTA..sup.6 and .DELTA..sup.5 desaturases such that the cell, tissue, and plasma levels of various polyunsaturated fatty acids (PUFAs) and, in particular that of endothelial cells lining the blood vessels will increase. More particularly, the invention is directed to enhance the activities of .DELTA..sup.6 and .DELTA..sup.5 desaturases that, in turn, will lead to increased production of products of polyunsaturated fatty acids such as prostacyclin (PGL.sub.2), PGI.sub.3, lipoxins, resolvins, protecting, PGE.sub.1 (prostaglandin E.sub.1), nitric oxide, and nitrolipids such that atherosclerotic process will be prevented, arrested, reversed and this will lead to efficient arrest, regression, prevention and/or treatment of even established atherosclerosis and its associated conditions. More particularly, the invention is directed to the delivery of proteins, peptides, lipids, lipoproteins, glycolipids, synthetic chemicals such as statins and their derivatives, troglitazones and their derivatives, and other compounds (synthetic or natural) that have the ability to enhance the activities of .DELTA..sup.6 and .DELTA..sup.5 desaturases in vivo, also provides methods of efficiently delivering cDNA clones of .DELTA..sup.6 and .DELTA..sup.5 desaturases and genes of .DELTA..sup.6 and .DELTA..sup.5 desaturases to endothelial cells and other target cells to prevent, arrest, reverse and treat atherosclerosis. IPC8 Class: AA61K9127FI, USPC Class: 424450. <http://www.faqs.org/patents/inv/171637>
3. **Butyrylcholinesterase as a marker of low grade systemic inflammation** (The invention relates to a method of detecting and diagnosing low-grade systemic inflammatory conditions such as insulin resistance, type 2 diabetes mellitus, hypertension, hyperlipidemias, and Alzheimer's disease using plasma and/or tissue levels of butyrylcholinesterase as a marker. In addition, for the prevention, treatment, and monitor prognosis of various cancers, and acute and chronic inflammatory conditions such as rheumatoid arthritis (RA), systemic lupus erythematosus (SLE), progressive systemic sclerosis (PSS), mixed connective tissue disorder (MCTD), vasculitis; and other disorders caused by uncontrolled angiogenic activity such as proliferative diabetic retinopathy; other eye disorders such as macular degeneration; and central nervous system disorders such as multiple sclerosis, Alzheimer's disease; skin problems such as psoriasis, renal conditions such as chronic renal failure, end-stage renal disease, glomerulonephritis such as minimal change nephropathy, various forms of proliferative glomerulonephritis, nephritis secondary to underlying systemic diseases such as collagen vascular diseases, lymphoma and leukemias; and other disorders in which cell proliferation and angiogenesis plays a dominant role and which are also characterized by low-grade systemic inflammation, development of a reliable, unique and specific marker is essential.) Submitted to **USPTO: Number 60/898,450 dated 31st January 2007**, Inventors Allam Appa Rao, G R Sridhar and U N Das

4 Patents (1 US and 3 Indian) Filed

i) US

1. **Method of Prevention and Treatment of Pathological Retinal Angiogenesis** (The invention relates to a strategy or method of preventing and treatment of pathological retinal angiogenesis that occurs in diseases such as retinopathy of prematurely in children, diabetic retinopathy, and age-related macular degeneration in which cell proliferation and angiogenesis plays a dominant role by the use of a specific monoclonal and polyclonal antibodies against vascular endothelial growth factor (VEGF) that is coupled to polyunsaturated fatty acids (PUFAs) such as eicosapentaenoic acid, docosahexaenoic acid, and their products lipoxins, resolvins and neuro-proteins) **USPTO: 60/959,517 dated 16th July 2007**, Inventors Allam Appa Rao and U N Das

ii) 3 Indian Patents

Patents Number CBR – 2732; Application Number 2066/CHE/2007, Inventors U N Das and Allam Appa Rao

- 1. Butyrylcholinesterase as a marker of persistent cancer:** The invention generally relates to a strategy or method of detecting and diagnosing persistent cancer that results in low-grade systemic inflammation as seen in lymphomas, leukemias; and other disorders in which cell proliferation and angiogenesis plays a dominant role and which are also characterized by low-grade systemic inflammation. The present invention relates to a strategy or method of detecting, diagnosing, and prognosticating all the above-mentioned conditions using plasma and/or tissue levels of butyrylcholinesterase as a marker of these diseases.
- 2. Butyrylcholinesterase as a marker of collagen vascular diseases:** The invention generally relates to a strategy or method of detecting and diagnosing acute and chronic low-grade systemic inflammatory conditions such as rheumatoid arthritis (RA), systemic lupus erythematosus (SLE), progressive systemic sclerosis (PSS), mixed connective tissue disorder (MCTD), vasculitis; glomerulonephritis secondary to underlying systemic diseases such as collagen vascular diseases, in which cell proliferation and angiogenesis plays a dominant role and which are also characterized by low-grade systemic inflammation. Development of a reliable, unique and specific marker for these conditions is essential. The present invention relates to a strategy or method of detecting, diagnosing, and prognosticating all the above-mentioned conditions using plasma and/or tissue levels of butyrylcholinesterase as a marker.
- 3. Method of Prevention and Treatment of Pathological Retinal Angiogenesis:** The invention generally relates to a strategy or method of preventing and treatment of pathological retinal angiogenesis that occurs in diseases such as retinopathy of prematurity in children, diabetic retinopathy, and age-related macular degeneration in which cell proliferation and angiogenesis plays a dominant role by the use of a specific monoclonal and polyclonal antibodies against vascular endothelial growth factor (VEGF) that is coupled to polyunsaturated fatty acids (PUFAs) such as eicosapentaenoic acid, docosahexaenoic acid, and their products lipoxins, resolvins and neuroprotectins. More particularly, the invention is directed to the efficacious use of therapeutic monoclonal and polyclonal antibodies in the treatment of pathological retinal angiogenesis. In principle, the present invention describes a method of effectively using monoclonal antibodies or specific polyclonal antibodies against vascular endothelial growth factor to prevent and treat the destructive angiogenesis that occurs in the eye seen in pathological conditions such as retinopathy of prematurity in children, diabetic retinopathy, and age-related macular degeneration to ameliorate by directly inhibiting neovascularization and/or by controlling vessel loss in order to reduce the hypoxic stimulus that drives neovascularization

50+ strong Research Team

PhDs awarded (15+8)

- 1997, Mr. G. Samuel Varaprasada Raju, 'Collision free path planning and obstacle avoidance using Dynamic Programming', gsvprajudr9@yahoo.co.in, 98493 43662, **Jointly with Prof M Ananda Rao of AU Mechanical Engineering**
- 2001, Ms M. Syamala Devi, 'Design of a Multi Agent System for Co operative Decisions and Management', syamala@pu.ac.in, msyamala1@rediffmail.com
- 2003, Mr G S Prasad, 'Knowledge based approach for Automated Digital Image Processing': (Cited in India Science Abstracts ISSN: 0019-6339, Volume 43), **Jointly with Prof I Ramesh Babu, Acharya Nagarjuna University, Guntur**
- 2003, Mr M.V.L.N. Raja Rao, 'A Comprehensive Study on the Reliability of Software Testing Tools using Test Suit Methodology for Quality Software Development', rajarao.mamidanna@gmail.com

5. 2005, Mr Chennamsetty Divakar, 'Algorithmic techniques in Computational Proteomics', (Cited in India Science Abstracts ISSN: 0019-6339, Volume 43), divakar_c@yahoo.com
6. 2007, Mr Suryanarayana Dasika, 'Computer-aided prediction of active sites in enzymes', surya_dasika@yahoo.com, Acharya Nagarjuna University, Guntur, AP
7. 2007, Mr Tirumala Kodanda Ramakrishna Rao, 'Analysis of functional Protein Sequences in Insulin Resistance Syndrome: A Bioinformatic Study', ramakrishnatk@gmail.com, 94410 73082, Acharya Nagarjuna University, Guntur, AP
8. 2007, Mr Hanuman Thota, 'Bioinformatic Analysis of Diabetic Micro Vascular Complications', hanumanthota@gmail.com, 98491 58545, Acharya Nagarjuna University, AP
9. 2007, Mr Reddi Kiran Kumar, 'Functional Protein Sequence Analysis of genes involved in Alzheimer's Disease: A Bioinformatic Study', kirankreddi@gmail.com, 94408 72455, Acharya Nagarjuna University, AP
10. 2008, Mr Adimulam Yesubabu, 'Computational analysis of significant genes causing Diabetic Nephropathy', adimulam9@yahoo.com, 98482 28856, Andhra University
11. 2008, Mr A. Siva Prasad, 'Identification of Biomarkers for Alzheimer's Disease and Type2 Diabetes Mellitus: A Bioinformatic Approach', a.prsadam@gmail.com, 0 99005 66762, Acharya Nagarjuna University, Guntur, AP
12. 2008, Mr Ch. Suresh Babu, 'Identification of Biomarkers for Diabetic Macrovascular Complications: A Bioinformatics Approach', changalsettysureshbabu@gmail.com, Acharya Nagarjuna University, Guntur, AP
13. 2008, Mr Kudipudi Srinivas, 'Computational Prediction of Butyrylcholinesterase Function through Domain Analysis, Secondary Structure Analysis and Protein-Protein Interaction', kudipudi72@gmail.com, 94407 36108, Acharya Nagarjuna University, Guntur, AP
14. 2009, Ms P. V. Lakshmi, 'Computational Strategies for the Study of Biomolecules', pvl_7097@rediffmail.com, Andhra University
15. 2009, Ms Golagani Lavanya Devi, 'Novel Techniques to Cluster Large Repository of Protein Sequence Databases', lavanyadevig@yahoo.co.in, JNTU: Hyderabad, (jointly with Dr Avula Damodar, JNTU Hyderabad)

PhDs submitted

16. 2009, Mr S. Gopala Sastry, 'Development of a Green Model for conceptualization of the infrastructural Requirement in respect of the water regime in an expanding urban scenario' (jointly with Prof S. Ramakrishna Rao of Civil Engineering, Andhra University)
17. 2009, Ms Nimmala Mangatayaru, 'Computational docking analysis of daibesity-a bioinformatics approach'
18. 2009, Ms R. Bhramaramba, bhramarambaravi@gmail.com 'Data Mining Techniques For Bioinformatic Applications Related to Diabetes Mellitus Proteins' (jointly with Prof V. Vijaya kumar, JNTU Hyderabad)
19. 2010, Mr Sudhir Kumar Pasala, 'Analyzing for attribute of Obesogenic Environments for Design of healthy Built Environments'.
20. 2010, Ms Saradha Jyothi, Botony, 279 7897 (Jointly with Prof B. Subba Rao of Botony, AU)
21. 2010, Mr Kopparti V V Satyanarayana, 'A Dynamic Programming and Computational Analysis of Identification of Genes toward Medical Diagnosis in Insulin Resistance Syndrome Associated Coronary Artery Diseases', kopparti61@gmail.com, 94407 13334, (Acharya nagarjuna University)

22. 2010, Mr Ramamurthy, Adapa ' Bioinformatics analysis of Diabetic Cardiomyopathy ' (jointly with Prof P V G D Prasada Reddy, Registrar, Andhra University), ram111_sai@yahoo.com, 98483 80889
23. 2010, Mr P V Nageswara Rao, 'Application of Neural Networks to Biological Data: Protein Classification and Secondary Structure Prediction', 094409 45789,

PhDs in Progress

- Mr Kopparti Suresh, sureshkgri@hotmail.com, 94901 71459, Andhra University
- Mr Thota Veeraswamy, 'Computational aspects of Diabetic Neuropathy' thota.vs@gmail.com, 98490 35669, Andhra University
- Mr M R Narasinga Rao, 'A Clinical Decision Support System using Multilayer Perceptron Neural Network to assess well being and quality of life in Diabetes', mrn702002@yahoo.co.in, 98660 21400, Andhra University
- Mr R. Rajender, kavitharaj70@yahoo.co.in, 94901 07528, Andhra University
- Mr B. Poorna Satyanarayana, poornaphd@hotmail.com, 94401 23178, Andhra University
- Ms P. Kanchanamala, kanchanakanta@yahoo.com, 99481 03080, Andhra University
- Mr Kunjam Nageswara Rao, kunjamnag@yahoo.com, 94401 14703, Andhra University

- Mr G. Nageswara Rao, gnraoaitam@yahoo.com, 94407 58550, Andhra University
- Mr BRVSRK Raju, rkraju_bhvs@yahoo.com, 94404 57276, Andhra University

- Mr Vasamsetty Chandrasekhar, chandu_vasamsetty@gmail.com, 94403 51652, Andhra University

- Ms Lakshmi Jagadamba, P., lakshmipulugurtha@gmail.com, 98484 83016, Andhra University
- Mr Suresh Babu Mudunuri, sureshverma@gmail.com, 98666 00002, Andhra University
- Mr N. Yogi Balaji, yogibalaji80@gmail.com, 94403 66299, Andhra University
- Mr K. Seshadri Sastry, aditya_shas@yahoo.com, 939 388 3567, Andhra University
- Mr V. Hanuman Kumar, it.hanuman@gmail.com, 92471 04580, Andhra University
- Mr M. Prasada Rao, prasadrao.m@gmail.com, 99666 13516, Andhra University
 - a. **Acharya Nagarjuna University**
- Mr P V Nageswara Rao, nagesh.uma@gmail.com, 934 6274653, 284 0298
- Ms Uma Devi Nageswara Rao, uma@gitam.edu,
- Ms Kanadam Kartika Pavan, karteeka@yahoo.com
- Mr Krishna Subba Rao, P., krishna.pulugurtha@gmail.com, 98484 80916
- Mr M. Naresh Babu, nareshmuppalaneni@yahoo.com, 94900 87210
- Mr Akula Chandra Sekhar, chandrasekhar_akula@yahoo.co.in, 99497 16016
- Mr Patchikolla Satheesh, patchikolla@yahoo.com, 92466 15251
- Mr Nukala Srinivasu, nulaka@gmail.com, 94901 72669
- Mr Devarapalli Dharmiah, devarapalli.dhrma@gmail.com, 94406 69164
- Ms P. Rajeswari, raji_likhitha@yahoo.com, 99122 08199.
 - a. **Jawaharlal Nehru Technological University**
- Mr Vetagiri Chakradhar, cdvetagiri@yahoo.com, 94904 49894
 - a. **Multidisciplinary - Andhra University**
- Ms G Satyavani, gsvani20@hotmail.com, 99494 82402
- Mr K.V. Mohan Rao, Psychology, kvmohanrao@aol.com, 93951 20064
- Ms K. K. Sunanda, Microbiology, sunandakadiri@yahoo.com, 94415 71261
- Ms S. Subha, Microbiology, senkhula_subha2001@yahoo.com, 81217 38496

Guided 250⁺ MTechs/MPhils: ([Details are available at www.allamapparao.org](http://www.allamapparao.org))

1. Computer Science and IT related areas: Guided 131 M.Tech Theses
2. Computer Networks: Guided 28 M.Tech Theses
3. Network Security : Guided 22 M.Tech Theses
4. Bioinformatics and Computational Biology: Guided 45 M.Tech Theses
5. Protein Structure Prediction and Modeling : Guided 15 M.Tech Theses
6. Image Processing : Guided 10 M.Tech Theses
7. Intrusion Detection: Guided 9 M.Tech Theses
8. Information Systems Control and Audit : Guided 16 M.Tech Theses
9. Computational aspects of Diabetes : Guided 15 M.Tech Theses
10. Cooperative Computing and Multi-Agent Technologies: Guided 4 M.Tech Theses

Authored 75⁺ Refereed International Journal Papers for which Reprints are available

1. Gumpeny R. Sridhar , **Allam Appa Rao** , Kudipudi Srinivas , Gumpeny Nirmala , Gumpeny Lakshmi, Dasika Suryanarayna, Padmanabhuni V. Nageswara Rao, Dowluru G.S.V.G.L. Kaladhar, Sali Veeresh Kumar, Tatavarthi Uma Devi, Turaga Nitesh, Thota Hanuman, **2010**, '**Butyrylcholinesterase in metabolic syndrome**', *Medical Hypotheses xxx (2010) XXX–XXX*
2. Manda R. Narasinga Rao, G.R. Sridhar , K. Madhu , **Allam Appa Rao**, **2010**, '**A clinical decision support system using multi-layer perceptron neural network to predict quality of life in diabetes**', *Diabetes & Metabolic Syndrome: Clinical Research & Reviews 4 (2010) 57–59*
3. K. Karteeka Pavan, Allam Appa Rao, A.V. Dattatreya Rao and G.R. Sridhar, **2010**, '**Single Pass Seed Selection Algorithm for k-Means**', *Journal of Computer Science 6 (1): 60-66, 2010, ISSN 1549*
4. Srinubabu Gedela, Venkata Phani Bhushan Guruju, Mary Sulakshana, Inavolu Lakshmi Maheswari, T. Prabhakar, Girija Sankar, Saradha Deepti Thota , **Allam Appa Rao**, GR Sridhar, **2009**, '**Quantitative Analysis of Cytokines in Diabetic Nephropathy**', *JPB/Vol.2/May 2009, Volume 2(5) : 217-221*
5. Siva Prasad Akula, Raghava Naidu Miriyala, Hanuman Thota, Allam Appa Rao, and Srinubabu Gedela, **2009**, '**Techniques for integrating -omics data**', *Bioinformation. 2009; 3(6): 284–286*
6. Narasinga Rao MR, Sridhar GR, Madhu K, **Rao AA**, **2009**, '**A Clinical Decision Support System Using Multilayer Perceptron Neural Network to Assess Well Being in Diabetes**', *J Assoc Physicians India 2009;57:127–33.*
7. R.Bhramaramba, **Allam Appa Rao**, Vakula Vijay Kumar, GR Sridhar, **2009**, '**PRINCIPAL COMPONENT ANALYSIS (PCA) OF PROTEINS RELATED TO TYPE 2 DIABETES MELLITUS: COMPARATIVE STUDY IN RODENTS AND HUMAN BEINGS**', *Journal of Applied and Theoretical Information Technology, February 2009, Vol.5, No.2, 143 - 179.*

8. G.R. Sridhar, **Allam Appa Rao**, M.V. Muraleedharan, R.V. Jaya Kumar and Venkat Yarabati, 2009, '**Electronic medical records and hospital management systems for management of diabetes**' *Diabetes & Metabolic Syndrome: Clinical Research & Reviews* 3 (2009) 55–59
9. K Karteeka Pavan, Allam Appa Rao, A V Dattatreya Rao, GR Sridhar, 2008, '**Automatic Generation of Merge Factor for Clustering Microarray Data**', *International Journal of Computer Science & Network Security (IJCSNS)*, vol 8, no 9, September 2008
10. G R Sridhar, venkata Putcha, Allam Appa Rao, Hanuman Thota, 2008, '**Prevention of Obesity in type 2 diabetes(pharmacotherapy)**', *Type 2 Diabetes and its complications: A Preventive Program edited by Dr B. M. Jayaram for Micro Labs Limited*, pp75-84
11. **Rao, Allam A.**; Reddy, C. S.; Sridhar, G. R.; Annapurna, A.; Hanuman, T.; Prameela, M.; Suresh, K.; Prasannalaxmi, S.; Das, Undurti N, 2008, '**Enhanced Butyrylcholinesterase Activity may be the Common Link in Triggering Low-Grade Systemic Inflammation and Decrease in Cognitive Function in Diabetes Mellitus and Alzheimer's disease.**' [Current Nutrition & Food Science](#), Volume 4, Number 3, August 2008 , pp. 213-216(4)
12. **Allam AR**, Swamy GV, Kumar BLVV, Kumar Ch SUR, 2008, '**Concurrency of Mutations, Microsatellites and Predicted Domains in kcnq1, kcnh2 and scn5a Genes Causing Long qt Syndrome Disease.**' *J Proteomics Bioinform* S1: S012- S016. doi:10.4172/jpb.s1000003
13. Allam Appa Rao, 2008, '**Differential expression of genes in obesity and type 2 Diabetes Mellitus**', *Current Nutrition & Food Journal, Vol 4, No 3, August 2008*, Pp. 206-208
14. Allam A Rao, C Siva Reddy, G R Sridhar, A Annapurna, T Hanuman, M Prameela, K Suresh, S Prasannalaxmi, Undurti N Das, 2008, '**Enhanced butyrylcholinesterase activity may be the common link in triggering low-grade systemic inflammation and decrease in cognitive function in diabetes mellitus and Alzheimer's disease**', *Current Nutrition & Food Journal, Vol 4, No 3, August 2008*, Pp. 155-157
15. Allam Appa Rao, Kudipudi Srinivas, R Rajender, Undurti N Das, 2008, '**Prediction of butyrylcholinesterase function through domain analysis and protein-protein interaction**', *Current Nutrition & Food Journal special issue, Vol 4, No 3, August 2008*, Pp. 176-184
16. Allam Appa Rao, Kopparthi V. V. Satyanarayana, G. Lavanya and Undurti N. Das, 2008, '**Computational Biological Analysis Reveals a Role for Nitric Oxide Synthase and Adiponectin in the Pathobiology of Insulin Resistance Syndrome and Coronary Artery Disease**', *Current Nutrition & Food Journal special issue, Vol 4, No 3, August 2008*,
17. Allam Appa Rao and Suresh B Mudunuri, 2008, '**Computational Analysis of Microsatellites in Human Insulin Promoter Factor 1 Gene**', *Journal of Proteomics and Bioinformatics , JPB/ Volume 2.1: 001-004(2008) /Special Issue 2008*
18. Kudipudi Srinivas, Allam Appa Rao, GR Sridhar, Srinubabu Gedela, 2008, '**Methodology for Phylogenetic Tree Construction**', *JPB/ Volume 2.1: 005-011(2008) /Special Issue 2008*
19. Allam Appa Rao, G Venkata Swamy, B L V Vinay Kumar, Ch S U Ravi Kumar, 2008, '**Concurrency of mutations, microsatellites and predicted domains in kcnq1, kcnh2 and scn5a genes causing long qt syndrome disease**', *JPB/ Volume 2.1: 012-016(2008) /Special Issue 2008*
20. Appa Rao Allam, Sridhar R Gumpeny, MN Vamsi Thalamat, S Sita Ram Babu, N Ravi Shankar, P Anuradha, 2008, '**Study of Microsatellites Role in BRCA2 Gene Causing Pancreatic Cancer and Breast Cancer**', *JPB/ Volume 2.1: 033-035(2008) /Special Issue 2008*
21. Allam Appa Rao, G R Sridhar, Suresh B Mudunuri, E Vamsidhar, Gunna Kishore, 2008, '**Computational Analysis of Mutations in Colon Cancer Genes Reveals a Possible Role of Micro satellite in Mutagenesis**', *JPB/ Volume 2.1: 036-040(2008) /Special Issue 2008*
22. Allam Appa Rao, Gunna Kishore, Ravikanth Satapati, Susmitha Gogula, 2008, '**Computational analysis of mutations in Neonatal diabetes (KCNJ11) gene reveals no relation with microsatellites**', *JPB/ Volume 2.1: 041-044(2008) /Special Issue 2008*

23. Allam Appa Rao, Siva Prasad Akula, Hanuman Thota, Srinubabu Gedela, 2008, 'Bioinformatic Analysis of Alzheimer's Disease and Type2 Diabetes Mellitus: A Bioinformatic Approach', *JPB/ Volume 2.1: 045-048(2008) /Special Issue 2008*
24. Allam Appa Rao, Shyambabu M, Srinubabu Gedela, 2008, 'Microarray Analysis of Differentially Expressed Genes Between Diabetes vs Healthy', *JPB/ Volume 2.1: 049-071(2008) /Special Issue 2008*
25. Allam Appa Rao, Hanuman Thota, Srinubabu Gedela, 2008, 'Standardizing Bioinformatics Data using Integrating Techniques', *Af. J. Biochem. Res. Vol. 3(4), July 2008*
26. Allam Appa Rao, Hanuman Thota, Suresh Babu Chandalasetty, Siva Prasad Akula, Lalitha Saroja Thota and Srinubabu Gedela, 2008, 'Bioinformatics: Etheical Values and Social Challenges', *Af. J. Biochem. Res. Vol. 3(3), June 2008*
27. Allam Appa Rao, Hanuman Thota, Ramamurthy Adapala, Suresh Babu, Chandalasetty, Ramachandra Sridhar Gumpeny, Annapurna Akula, Lalitha Saroja Thota, Siva Reddy Challa, M.R. Narasinga Rao and Undurti N. Das, 2008, 'Proteomic Analysis in Diabetic Cardiomyopathy using Bioinformatics Approach', *Bioinformatics and Biology Insights 2008:2 1-4*
28. Allam Appa Rao, Hanuman Thota, Siva Prasad Akula, Srinubabu Gedela, 2008, 'Identification of Biomarkers for Diabetic Microvascular Complications: A Bioinformatics Approach', *Af. J. Biochem. Res. Vol. 3(3), June 2008*
29. Allam Appa Rao, Kodanda RKR Tirumala, and Srinubabu Gedela, 2008, 'An Overview of Insulin resistance and its Associated Complications', *Int J Biomed Sci (IJBS), vol. 4 Issue no. 2*
30. Lavanya Devi, Allam Appa Rao, A. Damodaram, GR Sridhar, G Jaya Suma, 2008, 'Application of Modified General Regression Model to Cluster Protein Sequences', *International Journal of Computer Science & Network Security (IJCSNS), VOL.8 No.4, pp. 225-231*
31. Allam Appa Rao, Kiran K. Reddi, Hanuman Thota, 2008, 'Bioinformatic Analysis of Functional Proteins Involved in Alzheimer's Disease', *Journal of Proteomics and Bioinformatics (JPB), March 2008, Vol 1 (1), pp 47-56*
<http://www.omicsonline.com/Current%20issue%20JPB.htm>
32. Allam Appa Rao, Suresh Babu Ch, Hanuman Thota, Srinubabu G, 2008, 'Identification of Biomarkers for Diabetic Macrovascular Complications: A Bioinformatics Approach', *Journal of Proteomics and Bioinformatics (JPB), March 2008*
33. Allam Appa Rao, N. Manga Tayaru, Hanuman Thota, Suresh Babu Chandalasetty, Lalitha Saroja Thota, Srinubabu Gedela, 2008, 'Bioinformatic Analysis of Functional Proteins Involved in Obesity Associated with Diabetes'- *Int J Biomed Sci vol. 4 no. 1, pp 70-73*, March, 2008, *International Journal of Biomedical Sciences*
34. Srinivas Rao V, Sunanda K. K, Narasimha Rao M., Allam Appa Rao, Maheswari IL and Srinubabu G, 2008, 'Development and validation of LC method for the determination of leflunomide in pharmaceutical formulations using an experimental design', *African Journal of Pure and Applied Chemistry Vol. 2 (2), pp. 010-017, February, 2008*,
<http://www.academicjournals.org/AJPAC/contents/2008cont/Feb.htm>
35. Allam Appa Rao, Hanuman Thota, Ramamurthy Adapala, Suresh Babu Chandalasetty, Ramachandra Sridhar Gumpeny, Annapurna Akula, Lalitha Saroja Thota, Siva Reddy Challa, M.R. Narasinga Rao and Undurti N. Das, 2008, 'Proteomic Analysis in Diabetic Cardiomyopathy using Bioinformatics Approach', *Bioinformatics and Biology Insights*, 2008:2 1-4
36. Allam Appa Rao, 2008, 'Chromatographic Method Development: Computer Simulated Statistical Design Approach', *African Journal of Pure and Applied Chemistry*, January

- 2008; 2(1), pp. 001-005,
<http://www.academicjournals.org/AJPAC/index.htm>
37. Allam Appa Rao, Hanuman Thota, Ramachandra Sridhar Gumpeny, Annapurna Akula, Suresh Babu Changalasetty, Siva Reddy Challa, Tejaswi Ravavarapu, Siva Prasad Akula, Ch. Divakar, K. Srinivas, Undurti N. Das, 2008, 'Bioinformatics analysis of diabetic retinopathy using functional protein sequences', *Medical Hypotheses* (2008) 70, 148–155, IMPACT FACTOR 1.299
 38. G. Srinubabu , Veera V.R.Bandaru, Allam Appa Rao, M.Narasimha Rao, 2008, 'Development and Validation of LC-MS/MS Method for the Quantification of Oxcarbazepine in Human Plasma Using an Experimental Design', *Chemical & Pharmaceutical Bulletin* published by Japan Pharmaceutical Society 2008 Jan;56(1):28-33, IMPACT FACTOR 1.262
 39. Srinivas Vishnumulaka, Narasimha Rao Medicharla, Allam Appa Rao and Gedela Srinubabu, 2008, 'Development and Validation of LC Method for the determination of Famiciclovir in Pharmaceutical formulation using an experimental design', *E-Journal of Chemistry*, Vol 5, No 1, pp 58-67
 40. Allam Appa Rao, Gumpeny R Sridhar, Bolem Srinivas and Undurti N Das, 2008, 'Bioinformatics analysis of functional protein sequences reveals a role for brain-derived neurotrophic factor in obesity and type 2 diabetes mellitus', *Medical Hypotheses Journal, Elsevier Publishers ISSN 0306-9877, IMPACT FACTOR 1.299 June 5, 2007 Published on line, 2008 (Vol. 70, Issue 2, Pages 424-429)*
 41. Allam A. Rao, Gumpeny R. Sreedhar and Undurti N. Das, 2008, 'Elevated butyryl cholinesterase and acetyl cholinesterase may predict the development of type 2 diabetes mellitus and Alzheimer's disease', *Medical Hypotheses Journal, Elsevier Publishers; ISSN 0306-9877, IMPACT FACTOR 1.299, June 5, 2007 Published on line, 2008 (Vol. 70, Issue 1, Pages 148-155)*
 42. A . Rao , H . Thota , R . Gumpeny , A . Akula , S . Changalasetty , S . Challa , T . Ravavarapu , S . Akula , C . Divakar , K . Srinivas, 2008, 'Bioinformatics analysis of diabetic retinopathy using functional protein sequences', *Medical Hypotheses* , Volume 70 , Issue 1 , Pages 148 - 155
 43. Allam Appa Rao, 2007, 'Computational Approach of Protein Analysis Using Affinity Chromatography', *African Journal of Pure and Applied Chemistry* Vol 1 (1), 001-007,
<http://www.academicjournals.org/AJPAC/PDF/Pdf2007/Sep/Rao.pdf>
 44. Allam Appa Rao, 2007, 'Computational Aspects of Thematics: Application to Protein Tyrosine Phosphatase Role in Diabetes Mellitus', *Biotechnology and Molecular Biology Reviews* Vol. 2(5), pp. 123-132, December, 2007, ISSN 1538-2273 © 2007 Academic Journals,
<http://www.academicjournals.org/bmbr/PDF/pdf2007/Dec/Rao.pdf>
 45. Allam Appa Rao, 2007, 'A Tool for Pair-Wise Alignment Algorithm ' , *Management Review: An International Journal, Vol 2 No 1, INFORMS Korea*
 46. Undurti N Das and Allam A Rao, 2007, 'Gene expression profile in obesity and type 2 diabetes mellitus', *Lipids in Health and Disease*,
<http://www.lipidworld.com/content/6/1/35>
 47. G. Srinubabu, Rajaram S Patel, Vinay P. Shedbalkar , Appa Rao Allam, Narasimha Rao M, Veera V. R. Bandaru, 2007, 'Development and Validation of High throughput Liquid Chromatography-tandem mass spectrometric method for simultaneous quantification of loratadine and desloratadine in human plasma' *Journal of Chromatography B –860 (2007) 202–208, IMPACT FACTOR 2.647*

48. Srinubabu Gedala, Allam Appa Rao, Medicherla Narasimha Rao 2007, 'Identification of Biomarkers for Type 2 Diabetes and its Complications: A Bioinformatic Approach', IJBS 3(4), 229-236, Dec 15, 2007, *International Journal of Biomedical Sciences*
49. Allam Appa Rao, Hanuman Thota, Ramamurthy Adapala, Suresh Babu Changalasetty, Udurti N Das, Ramachandra Sridhar Gumpeny, Annapurna Akula, Lalitha Saroja Thota, Siva Reddy Challa and M.R. Narasinga Rao, 2007, '**Proteomic Analysis in Diabetic Cardio-myopathy using Bioinformatics Methods and Protocols**', *Bioinformatics and Biology Insights 2007:1 1-4*, ISSN 1177-9322
50. Hanuman Thota, Allam Appa Rao, Manga Tayar, Srinubabu Gedala, 2007, 'Information Technology Role for Alzheimer's disease Care and Management' *Bioinformation* 2(3): 91-95 (2007) <http://www.bioinformation.net/002/002300022007.pdf>
51. Allam A. Rao, Gumpeny R. Sridhar, Undurti N. Das, 2007, 'Elevated butyrylcholinesterase and acetylcholinesterase may predict the development of type 2 diabetes mellitus and Alzheimer's disease', *Medical Hypotheses (2007) 69, 1272-1276*
52. Srinubabu Gedala, Allam Appa Rao, Narasimha Rao Medicherla, 2007, 'Liquid Chromotography tandem Mass Spectrometric Method Development: An Experimental Design Approach', *AIChE 2007 Proceedings, 15C05-93804 pp 1-12*
53. Narasimha Medicherlap, Allam Rao, Srinubabu Gedala, 2007, Identification of Biomarkers for Type 2 Diabetes and Its Complications: A Bioinformatic Approach *Int. J. Biomed. Sci. 2007; 3(4):229-236 ICID: 653259 IC™ Value: 4.14*
54. Appa Rao Allam, Hanuman Thota, Srihari Ramiseti, Kodanda R K R Tirumala, Sridhar R Gumpeny, Annapurna Akula, Suresh Babu Chengalasetty, Siva Reddy Challa, Veera Swamy Thota, V V Satyanarayana Kopparthi and Undurti N Das, 2007, 'Bioinformatics analysis of functional protein sequences reveals a role for tumor necrosis factor- α and nitric oxide in insulin resistance syndrome', *Current Nutrition & Food Science, Volume 3, Number 4, PP 250-254, Bentham Science Publishers; ISSN 1573-4013, Unofficial IMPACT FACTOR 3*,
55. **Allam Appa Rao and Sridhar R Gumpeny, 2007, 'Quality of care: Assessment', *Lipids in Health and Disease*, <http://www.lipidworld.com/content/6/1/12>, IMPACT FACTOR 1.38**
56. Ch. Divakar, Allam Appa Rao and Raghu B. Korrapati, 2007, 'Computational Protein Sequences Analysis for Diabetic Retinopathy – A Bioinformatics Study', Proceedings of Allied Academies Conference, *Academy of Information and Management Sciences (AIMS), Volume 11, Number 1, Pages 23-28, <http://www.alliedacademies.org/Public/Proceedings/Proceedings20/AIMS-Proceedings.pdf>*
57. P.V. Lakshmi, Allam Appa Rao and G.R.Sridhar, 2006, 'PSA: An Interactive Tool for Pair-wise Sequence Alignment', *Bioinformatics Trends: A Journal of Bioinformatics and its Applications, Volume 1, Issue 4, pp. 91-94*
58. GR Sridhar, Ch Divakar, T Hanuman, Rao Allam Appa, 2006, 'Bioinformatics approach to extract information from genes', <http://www.ijddc.com/article.asp?issn=0973-3930;year=2006;volume=26;issue=4;spage=149;epage=151;aulast=Sridhar>, *International Journal of Diabetes in Developing Countries (IJDDC): ISSN 0973-3930, Volume 26, Issue 4, PP 149 – 151*
59. **Allam Appa Rao, 2006, 'Secondary Structure Prediction: Helix, Sheet and Coil, which method is accurate? Which is more efficient?', *Proceedings of 18th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'06)* pp. xxii-xxiii,**

<http://csdl2.computer.org/persagen/DLAbsToc.jsp?resourcePath=/dl/proceedings/&toc=comp/proceedings/ictai/2006/2728/00/2728toc.xml&DOI=10.1109/ICTAI.2006.101>

60. Allam Appa Rao, P.Srinivas, B. Chakravarthy, K.Marx, and P. Kiran, 2006, 'A Java Based Network Intrusion Detection System (IDS)', Proceedings of The 2006 *International Journal of Modern Engineering - INTERTECH Conference, Session ENG 206-118*
61. Allam Appa Rao, Bhremeramba, GR Sridhar, 2006, 'Mathematical Analysis of Diabetes Related Proteins having High Sequence Complexity' **Proceedings of 18th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'06)** , pp. **810-821**, <http://portal.acm.org/citation.cfm?id=1191123>
62. Appa Rao Allam, Gumpeny Ramachandra Sridhar, Hanuman Thota, Changalasetty Suresh Babu, Akula Siva Prasad and Ch Divakar, 2006, 'Alzheimer's disease and Type 2 diabetes mellitus: the cholinesterase connection?' *Lipids in Health and Disease*, **5:28** 'HIGHLY ACCESSED' <http://www.lipidworld.com/content/5/1/28>, **IMPACT FACTOR 1.38**, (Cited in <http://w02.biomedcentral.com/bmcendocrdisord?page=8&relevant=true>), <http://www.doaj.org/doaj?func=abstract&id=196129>)
63. Allam Appa Rao, M. Vijay Kumar and K. Chakraborty, 2006, 'Phylogenetic Tree Reconstruction and Analysis Using Distance and Character Based Methods' **Proceedings of Allied Academies, <http://www.alliedacademies.org/Public/Proceedings/Proceedings19/aims-pro.pdf>, Academy of Information and Management Sciences (AIMS), Volume 10, Number 2, pages 13-16**
64. Allam Appa Rao, A. Sanyoshukriya, B. Swapna and K. Soujanya, 2006, 'A Software Environment For Protein Structure Visualization', **Proceedings of Allied Academies <http://www.alliedacademies.org/Public/Proceedings/Proceedings19/aims-pro.pdf>, Academy of Information and Management Sciences (AIMS), Volume 10, Number 2, pages 17-20**
65. Allam Appa Rao, G. Prakash Gupta, M. Rajesh Babu, P. Sateesh Chandra and D.V. Phaneendra Teja, 2006, 'A Java Based Tool For Implementing The Pair-Wise Alignment Algorithms', **Proceedings of Allied Academies, <http://www.alliedacademies.org/Public/Proceedings/Proceedings19/aims-pro.pdf>, Academy of Information and Management Sciences (AIMS), Volume 10, Number 2, pages 43-51**
66. Allam Appa Rao and Bhaskar Durvasula, 2006, 'A Comparative analysis of Neural Network and Support Vector Machine for Protein Structure Prediction', *iJBI, Vol 1, No 1, ISSN 1933-3846*, http://www.ijbi.net/Vol_1_Num_1_September2006.pdf, (
67. Allam Appa Rao and Bhaskar Durvasula, 2006, 'A Java based framework for Structure prediction using Artificial Intelligence Techniques', *iJBI, Vol 1, No 1*, http://www.ijbi.net/Vol_1_Num_1_September2006.pdf, **ISSN 1933-3846**
68. Allam Appa Rao, S. Viziananda Row and Jhansi Rani Praturi, 2006, 'Design and Development of Visualisation tool for CVD', *iJBI, Vol 1, No 1*, http://www.ijbi.net/Vol_1_Num_1_September2006.pdf, **ISSN 1933-3846**
69. Allam Appa Rao, S. Viziananda Row and K. Mohini, 2006, 'Analysis of Genes causing Hypertension, Cardio vascular and Diabetes diseases using Composition Alignment Method', *iJBI, Vol 1, No 1*, http://www.ijbi.net/Vol_1_Num_1_September2006.pdf, **ISSN 1933-3846**

70. **Allam Appa Rao** and K. Sharon Lydia Mohan, **2006**, 'Design and Implementation of Bio Search Engine, Active site Prediction Engine, and Risk Prediction Engine', *iJBI, Vol 1, No 1*, http://www.ijbi.net/Vol_1_Num_1_September2006.pdf, ISSN 1933-3846
71. **Allam Appa Rao**, M. Vijay Kumar and K. Chakraborty, **2006**, 'A Software Tool for Phylogenetic Tree Re-construction and Analysis using Distance and Character based Methods', *iJBI, Vol 1, No 1*, http://www.ijbi.net/Vol_1_Num_1_September2006.pdf, ISSN 1933-3846
72. **Allam Appa Rao**, B V Jagannadham, K Lal Kishore and M Mukunda Rao, **2006**, 'Optical Sensor System for Non-Invasive Medical Diagnostics', *iJBI, Vol 1, No 1*, http://www.ijbi.net/Vol_1_Num_1_September2006.pdf, ISSN 1933-3846
73. **Allam Appa Rao** and Prameela Yernagula, **2006**, 'A Web Based Diabetes Prediction System', *iJBI, Vol 1, No 1*, http://www.ijbi.net/Vol_1_Num_1_September2006.pdf, ISSN 1933-3846
74. GR Sridhar, PV Lakshmi, **Allam Appa Rao**, **2006**, 'Phylogenetic tree construction of butyrylcholinesterase sequences in life forms', *J Assoc Physicians India*, **2006 Feb; 54:122-3** <http://japi.org/february2006/O-122.pdf>
75. Sridhar R Gumpeny, Nirmala Gumpeny, **Allam Appa Rao**, Madhavi A S, Sreelatha S, Sudha Rani J and Vijayalakshmi P , **2005**, 'Serum butyrylcholinesterase in type 2 diabetes mellitus: A biochemical and bioinformatics approach' *Lipids in Health and Disease*, <http://www.lipidworld.com/content/4/1/18>, IMPACT FACTOR 1.38, <http://www.pubmedcentral.nih.gov/articlerender.fcgi?artid=1242349>
76. Inampudi, R.B., Guntupalli, S.P., **Allam Appa Rao**, **2002**, 'Knowledge based approach for automated digital image processing', *IGARSS '02, Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE International*, **24-28 June 2002**, Page(s):1340 - 1342 vol.3, http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=1026109
77. Syamala Devi, V R K Murthy and **A. Appa Rao**, **2000**, 'Distributed Artificial Intelligence and Multi-agent Systems', *JPAS Vol. 2 (Number 1) 2000: 253-260*
78. Satyanarayana Gavarasana, Prasad V S N R Gorty and **Appa Rao Allam**, **1992**, 'Illiteracy, Ignorance, and Willingness to Quit Smoking among Villagers in India', *Cancer Science, Vol 83, Issue 4, Pages 340 – 343*, IMPACT FACTOR 3.829 <http://www.blackwell-synergy.com/doi/abs/10.1111/j.1349-7006.1992.tb00112.x>
79. Satyanarayana Gavarasana, Vijaya Prasad Doddi, Gorty V. S N. R. Prasad, **Apparao Allam** and Bellana S. R. Murthy, **1991**, 'A Smoking Survey of College Students in India: Implications for Designing an Antismoking Policy', *Cancer Science, Vol 82, Page 142*, <http://www.blackwell-synergy.com/doi/abs/10.1111/j.1349-7006.1991.tb01821.x>, IMPACT FACTOR 3.829
80. **Allam Appa Rao**, Gogula Sugunamma, **1987**, 'Computerised information system for libraries', *Library science with a slant to documentation (Libr. sci. slant doc.)* ISSN 0024-2543, 1987, vol. 24, no2, pp. 122-131 (4 ref.) , <http://cat.inist.fr/?aModele=afficheN&cpsidt=7711303>

Presented Research Papers at 65⁺ Refereed International Conferences

81. Suresh B.Mudunuri, Allam Appa Rao, S Pallamsetty, and H.A.Nagarajaram, 2010, 'Comparative Analysis of Microsatellite Detecting Software: A Significant Variation in

Results and Influence of Parameters', *Proceedings of ACM's International Conference on Bio-computing (ISB 2010)*, 15-17 February, 2010, Calicut.

82. Suryanarayana D., Nageswara Rao PV, Kaladhar DGSVGL, Veeresh Kumar S, Uma Devi T, Allam Appa Rao, GR Sridhar, 2009, 'IN SILICO PREDICTION OF BUTYRYLCHOLINESTERASE ACTIVE SITE AND DOCKING STUDIES WITH LIGANDS', 10th International Meeting on Cholinesterases, CROATIA, 20th – 25th September 2009
83. Lavanya Devi G, Allam Appa Rao, Damodaram A , Kanchana Mala P, Satyanarayana KVV, Sridhar GR. 2008, 'Clustering of protein sequences using variant threshold valued nearest Neighbor clustering algorithm', RSSDI 2008
84. Karteeka Pavan K, Allam Appa Rao, Sridhar GR., 2008, 'Computational methods to Mine Knowledge from Microarrays', RSSDI 2008
85. Bhramaramba R , Allam Appa Rao, Vijaya Kumar V, Sridhar GR, 2008, 'Comparative Genomics and Clustering of Diabetes related Proteins', RSSDI 2008
86. Narasinga Rao MR, Sridhar GR, Madhu K, Allam Appa Rao, 2008, 'Neural network (MLP) Clinical Decision Support System to predict WellBeing in Diabetes', RSSDI 2008
87. Sridhar GR, Kudipudi Srinivas, Allam Appa Rao, Boyidi Poorna Satyanarayana, Nageswar Rao K, Srinubabu G, 2008, ' Comparison of secondary structure of Butyrylcholinesterase (BchE) using *in silico* methods', RSSDI 2008
88. Vamsidhar Enireddy, Kishore Gunna, Allam Appa Rao, Sridhar G R, Suresh B Mudunuri, 2008, 'Computational analysis of microsatellites in colon cancer genes. Computational Analysis of Repeat', RSSDI 2008
89. Suresh B Mudunuri, Allam Appa Rao, Sridhar GR, 2008, 'Patterns in Diabetic Genes', RSSDI 2008
90. Saradha Jyothi Koon, Kudipudi Srinivas, Sridhar GR, Subba Rao B, Allam Appa Rao, 2008, 'Plant insulin: an *in silico* approach', RSSDI 2008
91. Manga Taryu N, Hanuman Thota, Suresh Babu Changalasetty , Lalitha Saroja Thota, Allam Appa Rao, Srinubabu Gedela, 2008, ' Bioinformatic Analysis of Functional Proteins Involved in Obesity Associated with Diabetes', RSSDI 2008
92. Satya vani Guttula1, Allam Appa Rao, Sridhar GR, Chakravarthy MS, Paturi V Rao, Rajendar R, Subha , S, 2008, 'Cluster Analysis in Biomarker Identification of microarray data of type 2 Diabetes and nephropathy', RSSDI 2008
93. Bhramaramba R, Allam Appa Rao, Vakula Vijay Kumar, Sridhar GR, 2008, 'Data Mining of Diabetes Related Proteins', RSSDI 2008
94. **Srinubabu Gedela, Allam Appa Rao & M. Narasimha Rao, 2008, 'Proteomic Analysis of Cytokines in Diabetes Patients: An Experimental Design Approach', *Proceedings of The Joint 2nd Pacific Rim International Conference on Protein Science and 4th Asian-Oceania Human Proteome Organization, Cairns- Australia, 22-26 June 2008***
95. **Allam Appa Rao and Gedela Srinivas, 2008, 'Mass Spectrometric Analysis of Plasma Proteins Using an Experimental Design: Challenges & Perspectives', *HUPO 7th Annual World Congress Amsterdam 2008, 16 - 20 August 2008, The Netherlands***
96. **Srinubabu G, Allam Appa Rao and M.Narasimha Rao, 2008, "Proteomic Analysis of Cytokines in Diabetes Patients: An Experimental Design Approach" The Joint 4th AOHUPO (Asian Oceania HUman Proteomic Organisation) and 2nd PRICPS (Pacific Rim International Conference in Protein Science), Australia, June 22-26, 2008**
97. Hanuman Thota, SureshBabu Changalsetty and **Apparao Allam, 2008, 'Bioinformatics Ethical Values and Social Challenges', *The 2008 International Conference on Bioinformatics and Computational Biology (BIOCOMP'08:July 14-17, 2008), Las Vegas, USA***

98. Hanuman Thota, Sivaprasad Akula, Kunjum Nageshwararo, SureshBabu Changalsetty, Apparao Allam and Lalitha Saroja Thota, ***'Bioinformatics Aspects in Diabetic Neuropathy Using Functional Protein Sequences' The 2008 International Conference on Bioinformatics and Computational Biology (BIOCOMP'08:July 14-17, 2008), Las Vegas, USA***
99. Satyavani Guttula, Hanuman Thota, Sivaprasad akula, Kunjum Nageshwararo, SureshBabu Changalsetty, Apparao Allam and Lalitha Saroja Thota, ***'Cluster Analysis and Phylogenetic Relationship in Biomarker Identification of Microarray Data of Type 2 Diabetes and Nephropathy in Asian Indians', The 2008 International Conference on Bioinformatics and Computational Biology (BIOCOMP'08:July 14-17, 2008), Las Vegas, USA***
100. Lavanya Devi Golagani, Allam Apparao, GRSridhar, A. Damodaram and G. Jaya Suma, 2008, ***'Fuzzy C-Means Algorithm for Clustering Protein Sequences', The 2008 International Conference on Bioinformatics and Computational Biology (BIOCOMP'08: July 14-17,2008), Las Vegas, USA***
101. Allam Appa Rao, 2007, ***Translational Bioinformatics and Diabetes Mellitus, Oct. 23-24 International Workshop on Transdisciplinary Education and Research, IWTER 07, Andhra University College of Engineering, Visakhapatnam, India***
102. Allam Appa Rao, Thota Hanuman, Thota Veera Swamy, Gedela Srinubabu, 2007, ***Functional Protein Analysis of Diabetic Neuropathy: A Bioinformatic Approach, IEEE 7th International Symposium on BioInformatics & BioEngineering, Oct. 14-17, Harvard Medical School, Boston, USA***
103. Allam Appa Rao & Srinubabu Gedela.,2007, ***Microarray Analysis of Differentially Expressed Genes between Diabetes vs Healthy-presented at HUPO 6th Annual World Congress held at Seoul, South Korea on 8th October 2007-abstract published in journal Molecular and Cellular Proteomics-Impact factor 9.95***
104. Allam Appa Rao, Thota Hanuman, Manga Tayaru N, Gedela Srinubabu, 2007, ***Bioinformatics of Diabetes Mellitus: Role of Information Technology, IEEE 7th International Symposium on BioInformatics & BioEngineering, Oct. 14-17, Harvard Medical School, Boston, USA***
105. Ch. Divakar, Allam Appa Rao, Raghu B. Korrapati, 2007, ***'Computational Protein Sequences Analysis for Diabetic Retinopathy – A Bioinformatics Study', Allied Academies, International Conference, Jacksonville, FL, USA, April 11-14, 2007***
106. P. V. Rao, K. Aanandha Saravanan, Madhusudhana Rao Ganji and Allam Apparao, 2007, ***'Multipurpose Watermarking Based on Multistage Vector Quantization', The 2007 International Conference on Multimedia Systems and Applications (MSA'07: June 25-28, 2007), Las Vegas, USA***
107. Hanuman Thota, Nageswara Rao K., Suresh Babu Changalasetty, Appa Rao Allam, Ramachandra Sridhar Gumpeny, Undurti N. Das, R. Kiran Kumar, and TK. Rama Krishna Rao, 2007, ***'Aldose Reductase and Nitric Oxide Synthase Role in Diabetic Retinopathy: A Bioinformatics Study', The 2007 International Conference on Bioinformatics and Computational Biology (BIOCOMP'07: June 25-28, 2007), Las Vegas, USA***
108. Allam Appa Rao et al, 2007, ***System of Systems: A Bioinformatic study on Metabolic network of Brain-Pancreas-Gut and their role in Obesity and Type-2 Diabetes, IDPT 07, Turkey, June43-8, 2007***
109. Allam Appa Rao et al , 2007, ***'Consensus Sequence Recognition in eukaryotic DNA Using Neural Network', Indian Science Congress, 2007***

110. *Bhremeramba, GR Sridhar, Allam Appa Rao, 2007, Diabetes related proteins: a mathematical analysis: Diabetes: Molecular Genetics, Signaling Pathways and Integrated Physiology (JI), Sponsored by Biovitrum AB, January 14 - 19, 2007 • Keystone Resort • Keystone, Colorado, USA, PP 87*
111. *Allam Appa Rao et al, 2006, 1 'Mathematical Analysis of Diabetes Related Proteins Having High Sequence Complexity' 18th IEEE International Conference on Tools with Artificial Intelligence (ICTAI'06) pp. 810-821, IEEE Computer Society Publication*
112. *Allam Appa Rao et al , 2006, 'A Software Environment For Protein Structure Visualization' Allied Academies Conference, Reno, NV, USA October 19-21, 2006, Published Proceedings, PP 17*
113. *Allam Appa Rao et al, 2006, "Phylogenetic Tree Reconstruction And Analysis Using Distance And Character Based Methods" Allied Academies Conference, Reno, NV, USA October 19-21, 2006, Published Proceedings, PP 13*
114. *Allam Appa Rao et al , 2006, "A Java Based Tool For Implementing The Pair-Wise Alignment Algorithms" Allied Academies Conference, Reno, NV, USA October 19-21, 2006, Published Proceedings, PP 43*
115. *Allam Appa Rao et al, 2006, BChE and metabolic syndrome: A unifying hypothesis, IDF, 19th World Diabetes Congress , Cape Town, South Africa from 3-7 December 2006*
116. *Allam Appa Rao, 2006, Transdisciplinarity: An Indian Experience, Distinguished Speaker, IDPT 06, 9th World Conference of Society for Design and Process Science, June 25-30 2006, San Diego, California, USA*
117. *Allam Appa Rao, 2006, Geographic Information System, Key Note Address, National Seminar on New Frontiers in Environmental Geophysics, May 30 – 31, 2006. Department of Geophysics, Andhra University, Visakhapatnam*
118. *Allam Appa Rao et al, 2006, The Distinct Amino Acid Sequence Similarity Of BchE and its Activity In Alzheimer's Disease – Published in the Proceedings of International Conference on Bioinformatics And Diabetes Mellitus held at ANDHRA UNIVERSITY, Vishakapatnam, 25TH TO 27TH March 2006*
119. *Allam Appa Rao, 2006, What Is Bioinformatics? Published in the Proceedings of International Conference on Bioinformatics And Diabetes Mellitus held at A.U, Vishakapatnam, March- 2006*
120. *Allam Appa Rao et al, 2006, Multiple Sequence Alignment Using Partial Order Graphs – Published in the Proceedings of International Conference on Bioinformatics And Diabetes Mellitus held at A.U, Vishakapatnam, March- 2006*
121. *Allam Appa Rao et al, 2006, 'Mathetical modelling of diabetes-related proteins having high sequence complexity' Published in the Proceedings of International Conference on Bioinformatics And Diabetes Mellitus held at A.U, Vishakapatnam, March- 2006*
122. *Allam Appa Rao, 2006, 'Philosophy of Computer Science' Published in the Proceedings of International Conference on Bioinformatics And Diabetes Mellitus held at A.U, Vishakapatnam, March- 2006*
123. *Allam Appa Rao et al, 2006, 'Dynamics Of Blood Flow: A Bio-Physical Approach' – Published in the Proceedings of International Conference on Bioinformatics And Diabetes Mellitus held at A.U, Vishakapatnam, March- 2006*
124. *Allam Appa Rao et al, 2006, 'Application Of Neural Networks In Designing A Military Mobile Ad Hoc Network Routing Protoco'i - Published in the Proceedings Of*

- International Conference On Bioinformatics And Diabetes Mellitus Held At A.U, Vishakapatnam, March- 2006*
125. Allam Appa Rao et al, 2006, 'Analysis Of Genes Causing Hypertension , Diabetes And Cardiovascular Diseases' – Published in the Proceedings of International Conference On Bioinformatics And Diabetes Mellitus held at A.U, Vishakapatnam, March- 2006
 126. Allam Appa Rao et al, 2006, A new look at Encryption Standards: International Conference Systemics, Cybernetics and Informatics ICSCI 2006, January 04-08,2006, Hyderabad, India
 127. Allam Appa Rao, 2005, Bioinformatics and Computational Biology in Diabetes Mellitus: An Overview, RSSDI Conference, Bangalore, India 24th September,2005
 128. Allam Appa Rao, 2002, A New Biometric Tool the 6th World Multi Conference on Systemics, Cybernetics and Informatics – July 14 – 18, 2002 – Orlando, Florida, USA.
 129. Allam Appa Rao et al, 2001, Applications of Splines in Medical Imagery for fast diagnosis in Rural India – 5th World Multi conference on Systemics, Cybernetics and Informatics (SCI 2001) in Orlando, USA, in July 22 – 25, 2001
 130. Allam Appa Rao et al, 1996, Renewable Energy Sources and the third World International Conference organized by “World Renewable Energy Congress IV, Denver, Colorado, USA, during 15 – 21 June 1996
 131. Allam Appa Rao and P V Ratnam, 1996, Adapting Indian Engineering Students to the Indian Economy 1996 World Congress of Engineering Educators and Industry Leaders, Paris, France: Jointly organized by UNESCO, UNIDO, UATI, WFEO, (2nd to 5th July 1996).
 132. Allam Appa Rao et al, 1995, “On Improvement of the Branch and Bound Algorithm of Traveling Salesman Problem” International Conference on Cognitive Systems (ICCSGS), Organized by National Institute of Technology held on 15 & 16 Dec '95 at New Delhi.
 133. Allam Appa Rao and O S R U Bhanu Kumar, 1993, Computer aided ridge position to forecast summer monsoon rainfall over India, International Conference on Applications of time series Analysis in Astronomy and Meteorology, Sept 6 – 10, 1993, University of Padova, Italy.
 134. Allam Appa Rao, 1991, Usage of Combinatorial frequencies of Freeman Chain Code for Characterization of Shape Vector in 3D Space, International Workshop on Visual form, 27th – 30th, 1991, Capri, Italy.
 135. Allam Appa Rao, 1991, Shape Characterization by usage of Combinatorial, 1991 Symposium on Applied computing, April 3-5th 1991, Kansas City, USA.
 136. Allam Appa Rao, 1989, Use of Remote Sensing Methods for Mitigation of Impact of Landslide, Mitigation and Management of Natural Disasters, Aug 2-4, 1989, New Delhi.
 137. Allam Appa Rao, P V Ratnam, 1986, Influence of Human Factors in the Design of Personal Computer: Conference on Human Factors in Computing Systems: April 13-17th, 1986 Boston, USA.
 138. Allam Appa Rao, 1986, On the Social Role of Computer Communications in India: Workshop on Mobile Communications held at Andhra University, Waltair April 12th and 13th, 1986.
 139. Allam Appa Rao, 1986, Problems of Introducing CAI in Higher Education in India, Seminar on Technical Education in India, 9 – 10th March 1986 Lucknow.

140. *Allam Appa Rao, 1986, University Departmental Cost Functions – A Theoretical Framework: International Conference of Registrars and University Administrators held at New Delhi during 30th December 1985 to 4th January 1986.*
141. *Allam Appa Rao, 1986, A Mathematical Model to Arrive at an Optimal Mix in a Heavy Engineering Industry, OR – 85 held at Jamshedpur during 13 – 15 December 1986.*
142. *Allam Appa Rao, 1985, Problems of Introducing Computer Assisted Instruction in the Higher Education for Third World Countries: International Conference on Higher Education held at New Delhi by Association of Indian Universities during 28-29 October 1985.*
143. *Allam Appa Rao, 1985, A Computer Exercise for Estimating Black Money in India: the Indian Econometric Society (TIES), First Regional Conference held at Bangalore, during 7 –9th October 1985.*
144. *Allam Appa Rao, P V Ratnam, 1985, Estimating the Cost of Software, First Pan-Pacific Computer Conference, held at Melbourne, Australia, September 1985.*
145. *Allam Appa Rao, 1985, Transport – Interactive Software for Transportation problems of Urban Transport in India, Andhra University, Waltair, April, 1985.*
146. *Allam Appa Rao, 1985, Solving Urban Transportation Problems using Computer. Presented at an International Seminar on Problems of Urban Transport in India, Andhra University, Waltair, April 1985.*
147. *Allam Appa Rao, 1979, Statistical Methods in Computer Performance: (Presented at a National Symposium held in Electrical Engineering Department, Andhra University, Waltair) – 1979.*

Authored 18 Technical Reports

1. 2000, AICTE Project on Design of a Vision System (2000) Research Report submitted to AICTE, New Delhi.
2. 1998, AICTE Project on Design of a PC – Based Real – Time Vision System for a Welding Robot Arm (1998) Research Report submitted to AICTE.
3. 1994, Research Project on Knowledge of Support System for Resource Allocation (KSSRA) (1994). Submitted to MHRD.
4. 1993, Research Project on Design of Parser and Lexical Analyzer. (1993) Research Report submitted to UGC.
5. 1993, Research Project on Object Recognition System (ORS) (1993) Research Report submitted to MHRD.
6. 1992, Research Project on Computer Aided Environmental Planning Through Health Impact Assessment for Visakhapatnam (1992) Research Report submitted to MHRD.
7. 1992, MHRD Project on Development of Neural Networks Laboratory (DNNL) (1992) Research Report submitted to MHRD.
8. 1992, MHRD Research Project on Development of Networks Laboratory (DNL) (1992) Research Report submitted to MHRD.
9. 1992, MHRD Research Project on Development of Artificial Intelligence Laboratory (DAIL) (1992) Research Report submitted to MHRD.
10. 1991, CAI in PASCAL & FORTRAN 77 (PC Version), Research Report submitted to DOE, April 1991.
11. 1990, Research Project on Pattern Analysis Using Mathematical Morphological Methods (1990) Research Report submitted to MHRD.
12. 1990, Pattern Analysis using Mathematical Morphology, Research Report submitted to MHRD, April 1990.
13. 1998, Department of Science and Technology (DST) Project on Data Bases & Thematic Maps (1989) Research Report submitted to DST.

14. 1988, Databases and Thematic Maps, Research Report submitted to DST, April 1988.
15. 1981, Studies on Computer Performance Evaluation, (Ph. D) Dissertation 1981
16. 1981, IFS System: Programmer Manual, Research Publication of Bonn University, Bonn, West Germany, June, 1981.
17. 1981, IFS System: Installation Manual, Research Publication of Bonn University, Bonn, West Germany, June, 1981.
18. 1975, Linear Programming: Methodology and a Case Study of BHPV Ltd (Dissertation Report) 1975.

Authored 6 Books:

1. Computer Science, Bioinformatics and Diabetes Mellitus
2. FIT: Fluency in Information Technology
3. Economics of Information Technology
4. Information Technology: An Incipient Culture
5. Making of a World Class University: The First 1000 Steps

Edited 2 Books:

1. Fundamentals of Computers for B.Com (Common Core Syllabus) Published by Telugu Academy, Hyderabad (2000-2001).
2. Computational Biology of Diabetes Mellitus, Allam Appa Rao and G R Sridhar, Printed and Published by the Director: Press and Publications, Andhra University, Visakhapatnam, India

Member of 11 National Expert Committees

1. All India Council for Technical Education (AICTE) Core Member
2. University Grants Commission (UGC) Standing Committee Member for Computer Education Development.
3. UGC Nominee on the Board of Governors of Regional Engineering College, Durgapur, West Bengal.
4. UGC Committee Member for the 7th, 8th, 9th and 10th Five year plans.
5. Ministry of Human Resource Development (MHRD), Expert to select candidates for 'Study abroad' scheme.
6. Department of Science and Technology (DST), Expert for Screening Proposals for funding Research Projects.
7. Expert to Screen Proposals for Indian Society for Technical Education (ISTE) Proposals.
8. Union Public Service Commission (UPSC) expert member for the selection of Computer Professionals.
9. Defense Research Development Organization (DRDO) expert member for the selection of DRDO in service candidates for M. Tech and M.Sc. courses.
10. Nominee Director, AMI SANAG Micromation Computer Company, Hyderabad.
11. Adviser, Centre for Advanced Studies in Microwave and Millimeter wave Technology (CASMIT), Calcutta, and West Bengal.

Visited 7 Countries extensively on academic activities

1. China, Duration: 18th June to 23rd June 2007, Purpose: 3rd India China Mission
2. Turkey, Duration: 1st June to 6th June 2007, Purpose: Invited Paper Presentation at 10th World Conference of Society for Design and Process Science at Antalya
3. USA, Duration: 23rd June 2006 to 5th July 2006, 16th – 18th October 2006, Purpose: Distinguished Speaker, 9th World Conference of Society for Design and Process Science, San Diego, Keynote Speaker, BIBE 06, Washington DC
4. UK, Duration: Sep. 1992- Dec. 1992, Purpose: Academic Link Interchange Scheme of British Council, UMIST, Manchester
5. Australia, Duration: Nov, 1985, Purpose: First Pan Pacific Computer Conference at Melbourne University
6. Germany, Duration: Oct. 1980 – June 1981, Purpose: Guest Professor / Scientist , (DFG), Bonn University, Bonn
7. Italy, Duration: Oct.1978-Dec. 1978, Purpose: Participant for a course on Systems Analysis at ICTP now Third World Academy of Sciences (TWAS), Trieste

Visited Belgium, Netherlands, Austria, France, Luxembourg and Singapore on various academic programmes

7 Memberships in International Professional Societies

1. **Senior Member: Institution of Electrical and Electronic Engineers (IEEE) 517243**
2. **Life Member: Association of Computing Machinery (ACM) 3158298**
3. **Member: American Association for the Advancement of Science (AAAS) 20100211**
4. **Member: International Council of Systems Engineering (INCOSE) 2168010.**
5. **Member: International Association for Computing and Philosophy (IACAP)**
6. **Member: Human Proteome Organization, 2719**
7. **Member: International Association of Engineers, IAENG: 64153**

6 Life Memberships in Indian Professional Societies

1. **Life Member: Indian Society of Theoretical and Applied Mechanics (ISTAM) L/573**
2. **Life Member: Indian Science Congress Association, L12768**
3. **Life Member: Computer Society of India (CSI) 17415**
4. **Life Member: Knowledge Forum**
5. **Life Member: Indian Society for Technical Education (ISTE) 3490**
6. **Life Member: Indian Association of Medical Informatics (IAMI) , PL93068**