3rd National Conference on

Advanced Computing Systems

2nd April 2014

NCACS'14

Organized by

Department of Computer Science and Engineering
Asan Memorial College of Engineering & Technology
Asan Nagar, Chengalpattu - 603 105
Chennai, Tamilnadu, India.

Sponsored by

Technically Co-Sponsored by

National Conference on Advanced Computing Systems (NCACS'14)

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Preface

We feel proud to present the proceedings of National Conference on Advanced Computing Systems (NCACS ’14). The Organizers of NCACS ’14 have endeavored with great zeal and enthusiasm to structure the entire conference program which would provide opportunities for the exchange and sharing of experiences, achievements and breakthroughs in the pursuit of research in the domain of Advance Computing Systems. The response to the NCACS ’14 “call for papers” has been overwhelming, considering that is our first National Conference on Advanced Computing Systems.

We warmly offer our sincere gratitude to our management for their encouragement and support, without which the conference could not have been organized in this scale. We also express our humble thanks to the principal, AMCET who has guided us throughout to make this National Conference a success. We also extend our gratitude to our beloved HOD without whose support this Conference wouldn’t have happen. Of course, NCACS ’14 is the outcome of excellent team work of dedicated and committed faculty members, staff and students from the Faculty of Advanced Computing Systems, AMCET.

We would like to thank all the dignitaries for giving their valuable message about our conference. We express our sincere gratitude to the guests of honor who have taken time for us in the midst of their busy schedule to inaugurate the conference and also the special Guest for being part of the valedictory function. We express our sincere thanks to all the Session Chairpersons for chairing the various technical tracks sessions and for effectively moderating them. We also thank all the industry experts, academicians, research scholars, students who have presented their papers and all the participants who have registered with us for the conference.

Dr.E. Chandrasekaran
PRINCIPAL

Prof.A. Suresh
HOD/CSE

The Asan Memorial Association

The Asan Memorial Association, Chennai, was established in 1965 as a tribute to the memory of Mahakavi Kumaran Asan, the late poet laureate of Kerala. The founder members of the Association consisted of eminent Malayalees settled in Chennai from different walks of life such as industrialists, educationist's film personalities and social workers who are devoted and highly dedicated to the noble cause of education. The founder secretary of the Association, Shri. A.K. Gopalan continues to be the guiding star and moving spirit behind the Asan Memorial Educational Institutions. There are 8 other Asan institutions located in various parts of Chennai.

The Asan Memorial College of Engineering & Technology

Asan Memorial College of Engineering and Technology was established in 2002 in recognition of the vital need to develop competent Engineering Professionals and Techno Managerial personal to meet the growing needs of the country. The college is located in the adjoining villages of Thandarai and Keerapakam, 9kms from Chengalpattu town on Chengalpattu-Mahabalipuram Highway. The campus is spread over 42 acres of land with picturesque hills and valleys forming a backdrop and provides an ideal and healthy setting for both learning and living. The college, a co-educational Institution, is approved by AICTE and affiliated to Anna University, Chennai.

VISION

"Our vision is to upgrade the Asan Memorial College of Engineering & Technology (AMCET) in phased manner to the level of "University" on par with standard universities in India and abroad with respect to the quality of education. Thus formed University should work round the clock to facilitate continuous research activities for the benefit of the society. Within five years the Asan Memorial College of Engineering & Technology would be upgraded as a centre of excellence in the field of Technical Education and would be in a position to take up consultancy services to the needy surrounding industries. The main objective of the Asan Memorial College of Engineering & Technology is to create more number of Entrepreneurs, in other words, to produce "Job creators rather than job Seekers".

MISSION

The mission of the college is to achieve excellence through high quality and need based education with focus on superior technical competition and development of individual potential. "The Asan Memorial College of Engineering & Technology (AMCET) was established to create full-fledged employable engineers & technologists, who can compete in the modern world of workforce and the faculty member as a facilitator to contribute in developing his students' personality in all aspects, upgrading their functional capabilities to meet the needs of their user organizations and make them socially useful"

About the Department

The Department of Computer Science and Engineering is established in the year 2002. The department shares the mission and vision of the institute to achieve excellence through high quality and need based education with focus on technical competence and development of individual potential. The department is well equipped with 3 diversified laboratories. The department has organized various Technical level symposium for inter and intra college students.

Vision of the CSE Department

Our Vision is to produce knowledge in computer education with moral values through systematic approach of teaching, training and offering multi-faced exposure in each and every sphere of student's development

Mission of the CSE Department

To impart higher education in Computing Technologies through effective learning process guided by competent faculty by promoting creativity, inculcating innovation, constructing leadership, communication skills, teamwork to develop community and social responsibilities to enhance the employability potential, there by striving to achieve customer satisfaction.

About the Conference

3rd National Conference on Advanced Computing Systems (NCACS '14)

The National Conference on Advanced Computing Systems- NCACS '14 is being jointly organized by the Faculty of Computer Science Department, Asan Memorial College of Engineering & Technology (AMCET). The Conference aims to create a common platform for the Academicians, Researcher scholars, technologist from research labs, Universities and Industries to discuss and present the various research initiatives and their outcome and experiences.

About the Conference of NCACS '14

Advancements in the field of computer technology have been rapid with innovations, beyond imagination. Our aim is that we should be in line with the latest technology updated with recent developments. This conference will analyze the emerging trends in Advanced Computing Systems and provide a platform to disseminate with the latest developments in the field of computer science and engineering among the PG Students Research scholars Professionals and Industries. The conference will provide ample opportunity for them to explore their ideas about the recent technologies in the field of "Advanced Computing".

Topics of Interest included but are not limited to:

- Cloud Computing
- Software Engineering
- Network security and Management
- Nano Computing
- Mobile Computing
- Object Oriented Databases
- Web Mining & Web Technology
- Grid Computing
- Image Processing
- Robotics
- Data warehousing & Data Mining
- Advanced Multimedia Systems
- Quantum Computing
- Android
- Open Source technology
- 2G,3G and 4G networks
- Cyber Security
- Ubiquitous Computing
- Green Computing
- Wireless ADHOC, Sensor, Bluetooth Networks.

Chairman / Founder Secretary's Message

Shri A.K.Gopalan
Chairman / Founder Secretary
Asan Memorial Association

Asan Memorial College of Engineering and Technology, a self –financed non-profit engineering college completes its 12th successful year. **Million said "the apple fell" but Isaac Newton was the only to ask 'why'.** This is the true sprit of interest and prying that our college tries to inculcate in its students. Dedication, sincerity & contuning empathy of our teaching force get intellectually & emotionally translated into an increased success of our students & the satisfaction of their parents, thus leading to placement of students.

I am immensely pleased to invite you all to the 3rd National Conference on Advanced Computing Systems (NCACS '14). The conference aims to provide a shared platform to the academic & industrial communities to address the challenges and the latest developments in Computer Science and Engineering.

The conference will be unique in many ways: a strong knowledge & idea sharing is made by both college-Industry participants; high quality papers & presentation & publishing them in the International journal of high repute. Collaboration coming through the conference could foster industry oriented research and development.

I wish the Principal, HOD & the staff members of CSE Department for their grand success.

General Secretary's Message

Mrs. Shyamala Jayaprakash
General Secretary
Asan Memorial Association

I feel immense pleasure and proud to be a part of 3rd National Conference on Advanced Computing Systems (NCACS '14) being organized by the department of Computer Science & Engineering in our college.

Knowledge shall ultimately free mankind from all kinds of bondage, hunger, darkness and ignorance. It shall also bridge the gap between the privileged and the under-privileged, the forward and backward, the developed and the under developed. Engineers are backbones for the progress and development of any country and quality education has become a crucial necessity for the survival of a country's economy as well as the survival and well being of an individual.

Future education is mainly technology oriented.

Asan Memorial College of Engineering and Technology acts as a fertile ground for experiment in new ideas and inculcating and values. In this way, the younger generation quickly understands and implements their new inventions.

I congratulate all the concernec with gratitude and wish the conference a grand success.

Mrs. Shyamala Jayaprakash

Executive Director's Message

Dr.Goutham Babu
Executive Director
Asan Memorial Educational Institutions

"Real knowledge, like every other value, is not to be obtained easily. It must be worked for, studied for, thought for and more than all must be prayed for"

Over the years, I have learned this: You can't hit a target which you can't see. You can't accomplish wonderful things with your life if you have no idea of what they are. You must first become absolutely clear about what you want, if you are serious about unlocking the extraordinary power that lies within you. At Asan Memorial College of Engineering and Technology, we believe in attaining success by building foundation on a wide base of knowledge which includes the elements of professional, subjective, practical and spiritual base. The Department's motto is to upgrade skills and knowledge of our young engineers to enable them to do the best in the present competitive world.

I am happy to note that Department of Computer Science and Engineering of our college, after two immensely successful conferences is hosting the 3rd National Conference on Advanced Computing Systems (NCACS '14) in our campus on April 2nd 2014 and the release of the proceedings of the conference.

I congratulate the Head of the Department, staff members, and participants from various colleges and industries. I wish the conference a grand success.

Dr. Gautham Babu

Principal's Message

Dr.E. Chandrasekaran
Principal
Asan Memorial College of Engineering and Technology

Warm and Happy greeting to all. I am immensely happy that CSE department of our college is organizing a 3rd National Conference on Advanced Computing Systems (NCACS '14). In this occasion the proceeding will be released which will contain various technical papers.

With the firm belief that the goal of true education is holistic development, the college ensures imparting values, ethics and confidence in young students to harness their full potential, thereby creating social capital necessary for establishing a healthy society.

The dedicated HOD and staff members and disciplined students of AMCET are the added features of our college. The caring faculty, state of art infrastructure and friendly academic environment make the college different and a respectable institution in the field of engineering education.

The role of the students in building nation is very important and students at AMCET are trained in all aspects to become successful engineers and good citizens. On this occasion I would like to wish the students all the very best.

I also congratulate HOD, staff members, students of CSE department, participants from various colleges and industries for their efforts in organizing and participating in this conference.

I wish the conference all the best for its success.

Dr. E. Chandrasekaran

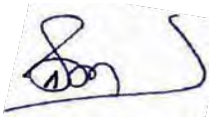
HOD's Message

Dr.A. Suresh
HOD – CSE
Asan Memorial College of Engineering and Technology

Its is a great honor for me to give a message on the occasion of 3rd National Conference on Advanced Computing Systems (NCACS '14) being organized by our department on 02.04.2014. The Department is committed to add value to intellectual, moral, social and technological capabilities of a student.

This Conference will provide an exposure to the students and the academicians on the recent developments in our field. It focuses on promoting human interactions that are critical in interdisciplinary research and removing traditional boundaries between scientific disciplines. This conference aims to provide an interactive platform to researchers from academia, research laboratories and industries to share their expertise and knowledge for strengthening research on applications of Mathematics in Computer Engineering. We have received more than 200 papers, and a special committee worked to select the best concept papers.

I appreciate the hard work, involvement and efforts taken by the team of staff members and students of CSE department in organizing this conference and I wish the conference a grand success.



Dr. A. Suresh

Guest of Honour's Message

Dr.E. Ilavarasan, Professor
Dept. of CSE, Pondicherry Engineering College, Pondy

It is my honor to attend the National Conference on Advanced Computing systems (NCACS '14) organized by Computer Science Department of Asan Memorial College of Engineering and Technology. It is also heartening to know that hundreds of papers are being presented and deliberated upon in the conference. I wish the conference all success.

Dr.G. Adiline Macriga, Professor,
Dept. of IT, Sri Sairam Engineering College, Chennai

It is gratifying to note that the department of Computer Science and engineering of Asan Memorial College of Engineering and Technology is conducting a National Conference on Advanced Computing Systems (NCACS '14). I congratulate the Principal, HOD, all the faculty members and students who are working behind this grand event.

Dr.D. Sivakumar, Professor,
Dept of CSE, Easwari Engineering College, Chennai

I am extremely happy that department of Computer Science and engineering of Asan Memorial College of Engineering and Technology is conducting a National Conference on Advanced Computing Systems (NCACS '14). I wish and pray for its grand success.

Dr.Y. Cyril Raj, Professor & Head,
Dept of CSE & IT, Dr.M.G.R. Educational & Research Institute University, Chennai

I am glad to be a part of the Conference NCACS'14 held on 2nd April 2014. I strongly believe that this conference will create a common platform for the academicians, Researchers, Developers and Practitioners to share their ideas and knowledge. I wish this conference to be a successful one.

Conference Committee

Chief Patron:

Shri.A.K. Gopalan, Founder Secretary

Patron:

Mrs. Shyamala Jayaprakash, General Secretary

Dr. Gautham Babu, Executive Director

Dr.E. Chandrasekaran, Principal

Convener:

Dr.A. Suresh, Head,
Department of Computer Science & Engineering

Co-ordinators:

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Dept. of Computer Science & Engineering

Mrs.K. Keerthi, Assistant Professor,
Dept. of Computer Science & Engineering

Advisory Committee:

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Dr.Y. CyrilRaj, Prof. &Head, CSE/IT,
Dr.M.G.R University, Chennai.

Dr.A. Kannan, Prof., Anna University, Main Campus, Chennai.

Dr.G. Tholkappia Arasu, Principal,
AVS Engg College, Salem.

Dr.D. Sivakumar, Prof., Eswari Engg College, Chennai.

Dr.M.K. Jeyakumar, Prof., Noorul Islam University, Kanyalkumari.

Dr.T. Revathi, Prof. & Head, IT Dept, Mepco Schlenk Engg College., Sivakasi.

Dr.M.M. Ramya, Prof., Hindustan University, Chennai.

Dr.M. Arun, Prof., VIT, Vellore.

Dr.K.R. Jothi, Prof.,
Ramachandra Institute of Technology, Coimbatore.

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Mr.N. Thanigachalam, Assistant Professor,
Department of CSE.

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Department of CSE.

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Department of CSE.

Ms.M. Revathi, Assistant Professor, Department of CSE.

Ms.N. Kavitha, Assistant Professor, Department of CSE.

Mr.R. Abuthahir, System Administrator, Department of CSE.

Mr.H. Gowri Sankar, Lab Assistant, Department of CSE.

Mr.K. Saravanan, Lab Assistant, Department of CSE.

Ms.B. Uma, Lab-Instructor, Department of CSE.

NCACS ’14 - Program Schedule

02nd April, 2014	
TIME	**SCHEDULE**
9.00 am	Registration
10.00 am	Inauguration of the conference NCACS ’14 Presided by : Dr. E. ILAVARASAN Professor Department of Computer Science and Engineering Pondicherry Engineering College Puducherry -605 014
11.20 am	Tea Break
11.30 am	Technical Session – 1 Venue : Seminar Hall Technical Session – 3 Venue : Computer Lab – I Technical Session – 5 Venue : Computer Lab – II Technical Session – 7 Venue : Computer Lab – III
1.30 pm	Lunch Break
2.30 pm	Technical Session – 2 Venue : Seminar Hall Technical Session – 4 Venue : Computer Lab – I Technical Session – 6 Venue : Computer Lab – II Technical Session – 8 Venue : Computer Lab – III
4.00 pm	End of Technical Session
4.00 pm	Valedictory Function Presided by : Dr. G. ADILINE MACRIGA Professor Department of Information Technology Sri Sairam Engineering College Chennai
4.40 pm	National Anthem

Session Chairs

DATE : 02-04-2013 **VENUE : SEMINAR HALL**

CHAIRPERSON	CO-CHAIR	PAPER ID
Dr.E. Ilavarasan, Professor Dept. of CSE, PEC, Pondy	**Mr.R. Vijayarangan,** Asst. Professor Dept. of CSE, AMCET	**Technical Session 1** **Time 11.30 am to 1.30 pm**
		NCACS14104, NCACS14106, NCACS14110, NCACS14114, NCACS14126, NCACS14131, NCACS14134, NCACS14136, NCACS14149 & NCACS14169
		Technical Session 2 **Time 2.30 pm to 4.00 pm**
		NCACS14171, NCACS14174, NCACS14180, NCACS14189, NCACS14202, NCACS14207, NCACS14218, NCACS14222, NCACS14229 & NCACS14246

DATE : 02-04-2013 **VENUE : COMPUTER LAB 1**

CHAIRPERSON	CO-CHAIR	PAPER ID
Dr.G. Adiline Macriga, Professor, Dept of IT, SRI SAIRAM	**Mr.A.N. Arularasan** Asst. Professor Dept. of CSE, AMCET	**Technical Session 3** **Time 11.30 am to 1.30 pm**
		NCACS14105, NCACS14109, NCACS14112, NCACS14116, NCACS14127, NCACS14133, NCACS14159, NCACS14162, NCACS14165 & NCACS14170
		Technical Session 4 **Time 2.30 pm to 4.00 pm**
		NCACS14172, NCACS14175, NCACS14186, NCACS14191, NCACS14206, NCACS14208, NCACS14220, NCACS14221, NCACS14223 & NCACS14235

SESSION CHAIRS

DATE : 02-04-2013 **VENUE : COMPUTER LAB - II**

CHAIRPERSON	CO-CHAIR	PAPER ID
Dr.D. Sivakumar, Professor, Dept of CSE, Eswari Engg College, Chennai.	**Mr.A. Sam Gunaraj,** Asst. Professor Dept. of CSE, AMCET	**Technical Session 5 Time 11.30 am to 1.30 pm**
		NCACS14103, NCACS14119, NCACS14120, NCACS14121, NCACS14128, NCACS14156, NCACS14166, NCAC14173, NCACS14177 & NCACS14212
		Technical Session 6 Time 2.30 pm to 4.00 pm
		NCACS14217, NCACS14228, NCACS14231, NCACS14232, NCACS14251,NCACS14252, NCACS14253, NCACS14254, NCACS14255 & NCACS14256

SESSION CHAIRS

DATE : 02-04-2013 **VENUE : COMPUTER LAB - III**

CHAIRPERSON	CO-CHAIR	PAPER ID
Dr.Y. Cyril Raj, Professor & Head, Dept of CSE & IT, Dr. M.G.R. Educational & Research Institute University, Chennai.	**Mr.N. Manjunathan,** Asst. Professor Dept. of CSE, AMCET	**Technical Session 7 Time 11.30 am to 1.30 pm**
		NCACS14161, NCACS14163, NCACS14176, NCACS14209, NCACS14211, NCACS14214, NCACS14135, NCACS14142, NCACS14210, NCACS14213
		Technical Session 8 Time 2.30 pm to 4.00 pm
		NCACS14167, NCACS14204, NCACS14239, NCACS14242, NCACS14245, NCACS14257, NCACS14258, NCACS14260 & NCACS14264

Contents

Paper ID	Title/Author	Page No.
NCACS14103	Lightweight Scheme to Detect the New Identities of Sybil Attackers in Mobile Ad-Hoc Network *S. Vijayakumari and R. Srinivasan*	1
NCACS14104	Deciding Optimal Location For Placing Facts Devices [UPFC, IPQC, DPFC] Using Bang-Bang Control Technique *R. Venkatesh, M. Rekha and G. Sundar*	5
NCACS14105	Grid Connected Boost-Full-Bridge Photovoltaic Micro-Inverter System Using Phase Opposition Disposition Technique And Maximum Power Point Tracking *M. Nandhini, I. Poovizhi and G. Sundar*	12
NCACS14106	An Efficient Algorithm for Disease Diagnosis Using Hybrid Fuzzy-Rough Set Model *Dr.P. Valarmathie and C. Ashwini*	20
NCACS14112	Secure and Dynamic Group Authorization on Versionized Document Repository in Cloud Environment *I. Devi and V. Ramesh Babu*	29
NCACS14119	Filtering the Candidate Words in RD *P. Arivazhagan and R. Thariyalakshmi*	32
NCACS14120	Secure Wireless Ad-Hoc Sensor Network From Vampire Attack Using M-DSDV *R. Ranjitha and P. Sivaraman*	36
NCACS14121	Detection of Spoofing Attack and Localization of Multiple Adversaries in WSN *R. Panchabi Kesavan and S.A. Ramesh kumar*	40
NCACS14126	Personalized Image Search Engine Based on User Perception *S.K. Balapriya Dharshni*	44
NCACS14127	Ambient Audio Fingerprints for Secure Data Transmission *L. Chandra Sekar, K. Chinnapaiyan and V. Mukesh Kanna*	47
NCACS14128	Design an Algorithm for Reverberation And Noise Reduction in Speech Recognition Based on Bayesian Enhancement *S. Nandhini and S. Visnudharsini*	51
NCACS14131	Security System in Channel using Fusion Method in Wireless Sensor Network *A.S. Bhuvaneswari and R. Vetriselvi*	55
NCACS14133	SDN and Overflow in Aggregation Networks *F. Anishya, V. Padma Priya and S. Vinothini*	59

NCACS14134	Safely Road Crossing System for Blind People Based on WSN *K. Ashwini, B. Divya and S. Sundari*	63
NCACS14135	Broadcasting and Disseminating Safety Messages by Performance Modelling in Vanet *N.R. Meenakshi and P. Sivaraman*	68
NCACS14136	Photo Park using Steganography *S. Thurkka and R. Harita*	73
NCACS14142	Delegating Log Management on the Cloud in Secure Manner *B. Bakiya Raja and M. Venkataraman*	76
NCACS14149	Nice: Network Intrusion Detection Countermeasure and Selection in Vulnerable Virtual System *R. Harshini, R. Kiruthika and N. Divya*	82
NCACS14159	Automated K-Sensitivity Classifier Model towards Textual Sensitive Protection *A. Vadivambal and P.B. Edwin Prabhakar*	93
NCACS14161	Securing Multi-Path Routing using Trust Management in Heterogeneous Wireless Sensor Networks *S. Vaijayanthi and Dr.M. Sugumaran*	96
NCACS14162	Prevention of Website Failure and Man in The Middle Attack in Online Transaction *V. Pooveeji and S. Lakshmana Pandian*	100
NCACS14163	Avoidance of Load Imbalance Condition in Hadoop DFS and Reduction of Movement Cost in Network *R. Heera, K. Mahadevi and D. Vinodhini*	105
NCACS14166	A Theoretical Approach for Clustered Networks Based on Load Rebalancing *S. Padmini and Dr.N. Ramraj*	110
NCACS14169	Security and Privacy Preservation Over Interconnected Control Point Based Networks *S. Dinesh and G. Gandhi Jaba Kumar*	114
NCACS14170	A Gilt-Edged Information Cloaking Technique with Tree Based Similarity *B. Akoramurthy, C. Manimaran and P. Baskar*	117
NCACS14171	Seclusion Search over Encrypted Data in Cloud Storage Services *G. Karthika Priya Dharshini, D. Viji and S.Uma*	122
NCACS14172	Wandering Knowledge Empiricism with Nibble Indicia and Marvel Frame up over Web Services *S. Suthir, H. Faisur Rahman, Mohan Kumar and K. Pravin Kumar*	129
NCACS14173	Hop-by-Hop Message Authentication and Source Privacy in Wireless Sensor Networks *G. Sargunan, G. Balasubramanian and P.V. Gopirajan*	133

NCACS14174	Securing Online Reputation Systems Through IP Filtering and Detecting Malicious User *D. Amudha and Dr.M. Sugurmaran*	142
NCACS14175	An Efficient Method for Recognizing Pose Invariant Faces *J.S. Jeyachandran and S. Ashokkumar*	147
NCACS14177	Digitalised Secure Information Channel Maintenance in Distributed Brokering Systems *E. Prakash and P. Karthick*	151
NCACS14186	Persuasive Cued Click-Points: An Implementation of A Knowledge-Based Authentication Mechanism *E. Priyadarshni, R. Divya and T. Lakshmi Narayanan*	155
NCACS14189	A Novel Framework for Mining Signatures From Event Sequences Using Temr in Healthcare Data *R. Mukundhan and N. Yuvaraj*	160
NCACS14191	Generating Dynamic Password using Codebooks for Protecting Users From Password Theft *S. Ramya, S. Suganya and R. Mohan*	165
NCACS14202	Techniques for Crawler Based Information Retrieval *K. Sureka and N. Karthika*	172
NCACS14207	Performance Improvement of Network Intrusion Detection using Genetic Algorithm *V.S. Kanaga and C. Jothikumar*	176
NCACS14208	Breast Tissue Characterization Using Combined K-NN Classifier *K. Vaidehi and Dr.T.S. Subashini*	181
NCACS14209	An Efficient View Classification of Echocardiogram using Morphological Operations *G.N. Balaji, R. Vasantharaj and Dr.T.S. Subashini*	184
NCACS14210	Contemporary Invasion Revealing System for Networks *S. Suthir, S. Janakiraman, G. Murali Krishnan and S. Dhamodaran*	187
NCACS14211	Extreme Capabilities of Twin Steganography Security Techniques in Network *B. Bramya, Edwin Edmant David and Y. Vijay*	192
NCACS14212	Increasing Efficiency of Computation Time for Hit Detection in BLASTN *R. Gomathi and A.K. Khamala Khannen*	197
NCACS14213	Advanced Efficient Information Retrieval For Ranked Queries In Cloud *G. Predeep, P. Prasanna and S. Britto Raj*	202
NCACS14214	Fractal Face Recognized Gmail Accessors with Pattern Based Spam Detector *M. Priyanka and V. Sivakumar*	206

NCACS14218	Efficient Data Broadcast Using One-To-All and All-To-All Broadcast Algorithm in Wireless Networks *S. Britto Raj and A.Sivanesh Kumar*	208
NCACS14220	Cognitive Radio Based Neighbor Identification And Probabilistic Rebroadcast for Reducing Routing Overhead *G. Iswariya and R. Srikkanthan*	212
NCACS14221	Multimodal Biometrics Based Security System *K. Honest Raj, J. Jai Jaganath Babu and S. Suganthkannan*	217
NCACS14222	Air Pollution Prediction using Spatial Mining *S. Christy, N. Sangeetha and Dr.V. Khanaa*	220
NCACS14223	Mining E-Shoppers's Purchase Rule by finding frequent patterns and sequence close level *S.N. Saravana Sai and T.Subha*	222
NCACS14228	Improving the Performance of Power Heterogeneous MANET'S using an Adaptive Power aware Routing *E. Suganya and S. Raja Rajeswari*	225
NCACS14231	Reliability based Optimization for Fault Tolerant Cloud Application *V. Asha Judi and C. Sathish*	232
NCACS14232	Privacy Preserving Heuristic Approach For Intermediate Data Sets In Cloud *C. Celcia and T. Kavitha*	237
NCACS14109	Outsourcing Decryption for Privacy in Cloud Based Health Monitoring *R. Vignesh Kumar and V. Ramesh Babu*	242
NCACS14110	Preserving the Multiple Sharing of Datasets by using Water Marking Techniques *T. Revathi and V. Ramesh Babu*	245
NCACS14114	Usability Matrix on Dynamic Datasets for Cloud Storage Solution Framework *S. Janaranjani and P.B. Edwin Prabhakar*	248
NCACS14116	Monitoring and Controlling Terminal Nodes Under Hierarchical Heterogeneous Wireless Networks *S.G. Mohanapriya, N. Maragatham and S. Sathish*	251
NCACS14156	Factor Based mining and Disease Prediction Paradigm using Temporal Pattern Matching *J. RajeshPushpa and R. Deepa*	255
NCACS14165	Cross Layer Design for Enhanced Video Transmission of H.264/SVC *S. Praveen Kumar and A. Srinivasan*	258
NCACS14180	DDOS Defense Mechanisms for Detecting, Tracing and Mitigating Network Wide Anomalies *B. Srinivasan and P. Subramanian*	263

NCACS14206	Privacy-Preserving Data Storage Using Cloud *R. Saravanan and Dr.N. Sundararajalu*	266
NCACS14217	High Accurate Anonymity Prediction of outsourced Large Datasets *M. Bharathi and R. Deepa*	269
NCACS14229	Online Web Mining process with Ranking System using SVM Classifier Model *J. Ramya and T. Nedunchezhian*	272
NCACS14235	Anomaly Detection and Prevention Based on Monitoring *J. Juvalia Hycinth and P. Sheela Gowr*	275
NCACS14246	A Node Based Privacy Approaches for Preventing Selective Jamming in Wireless Networks *Kalpana Narayanasamy*	279
NCACS14251	A Secret Sharing Approach in Cloud Security Over Single to Clouds-of-Clouds *M. Aarthi, K. Punithavathy, P. Rajeshwari and K. Bagiyalakshmi*	283
NCACS14252	An Approach for Preventing Spoofing Attacks in Wireless Network *D. Thivya, E. Narmatha, S.A. Ramesh Kumar, R. Thanigaivel and R. Sudharsanan*	288
NCACS14253	Detecting Brain Tumor Using MRI Images *R. Jagadeesh, M.* Manoharan*, A. Prem, R.Sudharsanan and S. Palpandi*	291
NCACS14254	Efficient Video Multicasting Using Svc in TDMA based Wireless Mesh Network *P. Gajalakshmi, R. Murugeshwari and R. Sudharsanan*	295
NCACS14255	Implementation of Multicast Routing with DSR Protocol and Caching Strategies in Density Information Networks *K. Kavitha, S. Pavizham, K. Visalatchi and R. Sudharsanan*	298
NCACS14256	Reversible Data Hiding Using Reserved Room Approach *P. Subashini and R. Sudharsanan*	301
NCACS14176	Fine-Grained Access Control in Cloud Computing For Personal Healthcare Domain *S. Deepika and S. Gopalakrishnan*	306
NCACS14204	Protocol Based Security Analysis of Duos Authentication Schemes using Monodroid Application *M. Renuka Devi*	312
NCACS14242	Multiview Video Coding for 3D Motion Estimation Using BMA *V. Vijayakumari and S. Sivakalai*	317
NCACS14257	Data Extraction and Image Recovery Using Reversible Data Hiding *P.R. Thanigaivel, M. Dhivya, C. Nandhini and K. Rachel Monita*	321
NCACS14260	Optimizing the MANET Detecting and Declaring the Malicious Node *J. Divahar and J. Nithya*	324

NCACS14264	An Innovative Zone Based Mobility Prediction using Genetic Algorithm for Wireless Cellular Networks *A. Beulah*	328
NCACS14167	Performance Improvement of Network Intrusion Detection Using Genetic Algorithm *V.S. Kanaga and C. Jothikumar*	332
NCACS14245	Assessment of Fault Tolerant Strategies for Application Deployment in Cloud Environment *L. Yuvapriya and G. Selvapriya*	336
NCACS14258	Finding an Alternate Path to the Packet on a Network after the Link Failure *S. Manjula, S. Jayapriya and K. Kavitha*	343
NCACS14265	Analysis of Leather Texture and Detection of Severity of Defects Using Image Processing and Adaptive Neuro Fuzzy Inference System *V. Saravanan and U. Sabura Banu*	347
NCACS14239	Zone alert and Surveillance System for Autonomous Navigation of Fishermen's Boat Safety System *G. Senthil Kumar and P. Karthick*	351