

ABSTRACT PROCEEDINGS
OF
ICRTEECT - 2017
POSTER PRESENTATION

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Publishing Right (P) : VSRD Academic Publishing
A Division of Visual Soft India Private Limited

ISBN-13: 978-93-86258-64-9
FIRST EDITION, JULY 2017, INDIA

Typeset, Printed & Published by:
VSRD Academic Publishing
A Division of Visual Soft India Private Limited

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Printed & Bound in India

VSRD ACADEMIC PUBLISHING

A Division of Visual Soft (India) Pvt. Ltd.

REGISTERED OFFICE

154, Tezabmill Campus, Anwarganj, KANPUR – 208 003 (UP) (INDIA)
Mob.: +91 9956127040 || Web.: www.vsrdpublishing.com || Email: vsrdpublishing@gmail.com

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Basement-2, Villa-10, Block-V, Charmwood Village, FARIDABAD – 121 009 (HY) (INDIA)
Mob.: +91 9899936803 || Web.: www.vsrdpublishing.com || Email: vsrdpublishing@gmail.com

MARKETING OFFICE (SOUTH INDIA)

340, First Floor, Adarsh Nagar, Oshiwara, Andheri(W), MUMBAI – 400 053 (MH) (INDIA)
Mob.: +91 9956127040 || Web.: www.vsrdpublishing.com || Email: vsrdpublishing@gmail.com

ABOUT SREC

SR Engineering College, Warangal was established in the year 2002 by SR Educational Society with an aim to provide quality education. The college is affiliated to JNTU, Hyderabad. It has 5 Undergraduate (B.Tech) and 5 Postgraduate (M.Tech) Engineering Programs in addition to Master of Business Administration (MBA) and MBA(Integrated).The College has been granted Autonomous Status by University Grants Commission (UGC) in 2014, Accredited by NAAC with 'A' Grade in 2015 and programs Re-accredited by NBA in 2015. Through active Industry cooperation, SREC has established multiple centres including CISCO Networking Academy, Micro Soft Innovation Centre, IBM Centre of Excellence, Centre for Entrepreneurship Development, Industry Institute Partnership Cell, Cognitive Science Centre, Centre for Teaching & Learning, IUCEE and EPICS Centre for Nurturing specific skill sets for better employability. To shape and transform the SREC graduates to meet challenging and complex engineering tasks globally, the institution has built and fostered relationship with reputed Universities abroad. The faculties are highly motivated and the institution has ambitious plans for growth and encourages innovative practices in teaching and learning process. The institution has several ongoing and completed research projects in diverse fields of research sponsored by funding agencies of Government of India.

ICRTEECT

International Conference on Recent Trends in Electrical, Electronics and Computing (ICRTEECT-2017) Technologies is to bring together scientists, researchers, educationalists and developers, to share new ideas and establish cooperation between them and provide a platform for presenting their original work and exchange ideas, information, techniques and applications in the field of Communication, VLSI & Embedded Systems.

The EEE, ECE & CSE Departments of this institute are organizing an International Conference on Recent trends in Electrical, Electronics and Computing Technologies (ICRTEECT – 2017).

Participants are encouraged to present papers on all topics listed in the CALL FOR PAPERS, which enable interdisciplinary discussions on new ideas, latest research and development. Papers are invited from various departments of Aeronautical, Automobile, CSE, ECE, EEE, EIE, Inst. & Control, Mechatronics, and allied branches of Engineering.

MESSAGE FROM GENERAL CHAIR

It is indeed of utmost pleasure for me to note that EEE, ECE & CSE Departments of this institute are organizing an International Conference on *Recent trends in electrical, electronics and computing technologies (ICRTEECT – 2017)*

A Conference of this kind with participation of scientists, researchers, educationists and developers disseminates the research advancements and inventions, network and exchange ideas in order to strengthen existing partnership and foster new collaborations and focuses on both theory and application in the broad areas with multidisciplinary topics related to electrical, electronics and computing technologies. This would pave the way towards enhancing the research interests among the faculty and students of EEE, ECE and CSE. This Conference is an opportunity to determine the creative, competitive and analytical potential of every participant. I wish the participants, in-depth deliberations and fruitful outcome in the form of identification of thrust areas for future research.

I would like to convey my best wishes to all the faculty members, organizing committee, student volunteers, participants and sponsors on this occasion.

Dr. V. Mahesh
General Chair, ICRTEECT – 2017
SR Engineering College, Warangal, India

MESSAGE FROM GENERAL CO-CHAIR

Welcome to delegates from Industry and Academia for the 1st IEEE Conference ICRTEECT' 2017 held at SR Engineering College, Warangal, Telangana State, India on 30th – 31st July 2017.

The Technical Program Committee Dr. Fahim Shaik, Mrs. Ch. Sridevi and Mrs. B. Saritha have put in a tremendous effort to collect the Technical papers and performed evaluation by sending to various reviewers for which I show my sincere Appreciation.

The papers were reviewed rigorously by the reviewers and Technical Program Committee (TPC) members for whom I am very grateful.

I thank the Invited speakers, Dr. T. Srinivas, Dr. V. Shankar and Mr. Sudhakar Kolluru for contributing their valuable time to share their experiences and perspectives on three different domains of Engineering. The Technical program is made of 3 sessions, 3 keynote speakers and paper presentation by participants.

I thank the fellow members of the organizing committee, student volunteers for their effort in arranging Technical Program, discussions in Conference and making sure the program goes without a glitch.

I sincerely hope that the Conference will be organized to its best in Warangal.

Dr. C.V. Guru Rao
General Co-Chair
SR Engineering College, Warangal India

MESSAGE FROM ORGANIZING CHAIR

It gives me immense pleasure to welcome you to the IEEE – ICRTEECT - 2017 Conference held at SR Engineering College, Warangal, Telangana State, India on 30th -31st July 2017. This is the 1st Conference organized by the Institute under IEEE Professional Society and is first in Warangal Region.

For this Conference, 226 papers have been received from several countries. After review, 56 papers were accepted. Technical Program includes several keynote speeches. The 1st speaker is Dr. T. Srinivas, IISc, Bangaluru, Karnataka State, the 2nd speaker is Dr. V. Shankar, Professor, JNTUA-CEA, Ananthapuram, Andhra Pradesh and the 3rd speaker is Mr. Sudhakar Kolluru, Enterprise Technical Architect, Novartis. The main aim of this conference is spread over many current research areas in the domain of ECE, EEE and CSE.

I express deep sense of appreciation to the keynote speakers, session chairs, reviewers and authors who will present the results of their work at this Conference. I thank the Conveners, Advisory members for their support and suggestions during the preparation and organization of this Conference.

A strong support of Dr. Amit Kumar of IEEE MGA SDEA and Volunteer of IEEE Hyderabad Section and Mr. Vinit Gunjan, Young Professionals, Chair of IEEE Hyderabad Section is also very much appreciated.

Special thanks to SERB, for their sponsor. The financial contribution by management of SR Engineering College, sponsors allows us to plan an outstanding Conference Program, including Reception and Volunteering.

I look forward for your participation in ICRTEECT' 2017 Conference and wish you the wonderful experience in Warangal, with natural beauties of Temples, Churches and Shines for outdoor abound.

Dr. Syed Musthak Ahmed
Organizing Chairman
SR Engineering College, Warangal, India

MESSAGE FROM ORGANIZING CONVENERS

It gives us immense pleasure to welcome each one of you to the International Conference on “**Recent Trends in Electrical, Electronics and Computing Technologies (ICRTEECT)**” scheduled during 30th - 31st July 2017 at SR Engineering College, Warangal. It is indeed appropriated that the three Departments ECE, EEE and CSE are collectively working together in organizing this conference.

It is heartening to note that researchers and academicians from different parts of the world are presenting their research papers during the 2-day International Conference on ICRTEECT - 2017. We are certain that the ICRTEECT - 2017 shall provide a forum for exchange ideas on emerging topics in current Technologies.

✍ Dr. Chandram Karri (EEE)

✍ Dr. R. Vijaya Prakash (CSE)

✍ Mr. M. Sampath Reddy (ECE)

*Organizing Conveners
SR Engineering College, Warangal*

MESSAGE FROM PUBLICATION COMMITTEE

We are very happy to be a part of Publication Committee for ICRTEECT 2017 to be organized on 30th – 31st July 2017.

We are sure that this conference will provide an excellent forum for Researchers, Post Graduate students, Scientists, and Academicians from all over the world to exchange Information, present modern ideas, expand their priorities and discuss the future directions in the area of Engineering and related topics.

I wish that the participants of ICRTEECT 2017 will experience rich Professional interaction and enjoy their stay on the campus.

✍ Ms. Ch. Sridevi Reddy

*✍ Mr. Y. Nagender
SR Engineering College, Warangal, India*

*✍ Dr. Fahimuddin Shaik
AITS, Rajampet, A.P.
Publication Committee Chairs*

ACKNOWLEDGEMENTS

We would like to thank the Advisory committee members, Technical Program Committee members and Organizing Committee members for their support and suggestions during the preparation and organization of this Conference.

We would also like to thank the eminent Professors and Academicians for accepting to give invited Talks and Chair the sessions, for sparing valuable time in spite of their busy schedules.

Special thanks to SERB, DST, Govt. of India for their sponsorship. The financial contribution by management of SR Engineering College, sponsors allows us to plan an outstanding Conference Program, including Reception and Volunteering.

Finally we thank all those who have directly or indirectly contributed in organising ICRTEECT-2017.

*✍ Organising Committee-ICRTEECT-2017
SREC, Warangal*

LIST OF PAPERS

1. **DUAL-SERVER PUBLICKEY ENCRYPTION WITH KEYWORD SEARCH FOR SECURE CLOUD STORAGE**1
 - *Jhansidevi Renamala, Syed Nawaz Pasha*
2. **AN ATTRIBUTE-BASED DATA SHARING IN CLOUD COMPUTING**.....2
 - *Chandana Arsham, S.Naresh Kumar*
3. **ANALYSIS OF RATING PREDICTION SYSTEM FROM TEXTUAL REVIEWS**.....3
 - *Sathu Anusha, M.Sreenu*
4. **DATA PRIVACY IN ENCRYPTED RELATIONAL DATA USING K-NN CLASSIFICATION**.....4
 - *M.Archana, M.Sheshikala*
5. **A NOVEL ENERGY AND MEMORY EFFICIENT CLONE DETECTION IN WSN**5
 - *Edelli Naveen, Poladi Pramod Kumar*
6. **ANALYSIS OF SECURE GEOMETRIC RANGE SEARCH OVER ENCRYPTED SPATIAL DATA**.....6
 - *Aparna Mitukula, T. Sampath Kumar*
7. **DYNAMIC AND SECURE RANKED KEYWORD SEARCH OVER ENCRYPTED CLOUD DATA**7
 - *T.Mounika Reddy, J.Bhavana*
8. **AN EFFICIENT REVOCABLE-STORAGE IDENTITY-BASED ENCRYPTION**8
 - *Shamantha Pasunuti, K. Sudheer Kumar*
9. **AN OPTIMIZATION FRAMEWORK FOR OPPORTUNISTIC ADAPTIVE ROUTING PROTOCOL IN WIRELESS NETWORKS**.....9
 - *Shabana Kousar, Dr.R.Vijaya Prakash*
10. **EXAMINATION AND ORGANIZATION WITH CONVERTED WEB TRAFFIC IN MOBILE MESSAGING APPS**10
 - *A. Lavanya, V. Thirupathi*
11. **AN EFFECTIVE IMPLEMENTATION OF FAULTY NODE DETECTION IN MOBILE WIRELESS NETWORK**11
 - *K.Shruthi, A.Harsha Vardhan*
12. **LEVERAGING DATA DE-DUPLICATION TO IMPROVE PERFORMANCE OF PRIMARY STORAGE SYSTEMS IN THE CLOUD**12
 - *R.Sadana Kumari, P.Kumar Swamy*
13. **A STABLE METHODOLOGY FOR ROUTING QUERIES IN UNSTRUCTURED P2P NETWORKS**.....13
 - *Soumya Sathuri, S.Vahini*
14. **A NEW METHOD OF SECURE PAYMENT SOLUTIONS FULLY OFF-LINE FUNCTIONS ON FRODO**14
 - *Indumathi Akuthota, Sunil.G*

15.	AN EFFICIENT STUDY OF REVOCABLE DATA ACCESS CONTROL FOR SECURE CLOUD STORAGE	15
	• <i>Devarakonda Sravan Kumar, Ch.Sandeep</i>	
16.	ENABLING CLOUD STORAGE AUDITING WITH VERIFIABLE OUTSOURCING OF KEY UPDATES.....	16
	• <i>Vatte Pranathi, Md. Sallauddin</i>	
17.	AN EFFICIENT CACHE-SUPPORTE PATH COMPUTATION MODEL FOR ROAD MAPS.....	17
	• <i>G.Mounika, P.Praveen</i>	
18.	TOWARDS MAXIMIZING THE LOCATION PRIVACY FOR MOBILE USERS	18
	• <i>G.Shirisha, N.Vijay Kumar</i>	
19.	A GLOBALLY CENTRALIZED SYSTEM FOR PATIENT MONITORING, LOCALIZATION AND TRACKING.....	19
	• <i>B. Siddartha, J. Ravi Chander</i>	
20.	DEVELOPMENT OF SIMULATION DESIGN FOR LTE COMMUNICATION BY USING ADAPTIVE MODULATION METHODS	20
	• <i>Munigala Ganesh, D.Rajitha</i>	
21.	TESTABILITY DESIGN FOR SLEEP CONVENTION LOGIC.....	21
	• <i>Humera Zainab, P.Anuradha</i>	
22.	ENHANCED FAULT TOLERANT PARALLEL FFTS USING PARSEVAL CHECKS AND ERROR CORRECTION CODES IN FPGA TECHNOLOGY	22
	• <i>Panjala Kranthi Kumar, P.Anuradha</i>	
23.	CODING SCHEMES FOR IMPLEMENTATION OF FAULT TOLERANT PARALLEL FILTER.....	23
	• <i>Nutenki .Siddhartha, G.Renuka</i>	
24.	DCT-PCA BASED AUTOMATIC FACIAL EXPRESSION RECOGNITION USING FACIAL PATCHES.....	24
	• <i>Maloth Sudheer Sagar, Y.Shekar</i>	
25.	VALUE ASSIGNMENT OF ADJUSTABLE DELAY BUFFERS FORCLOCK SKEW MINIMIZATION IN MULTIPLE DYNAMIC SUPPLY VOLTAGE DESIGN	25
	• <i>Erugurla Spriya, Mrs. Sridevi Reddy</i>	
26.	SONAR BASED ACCURATE POSITIONING SYSTEM UNDERWATER WITHFLOATING SURFACE GPS NODES	26
	• <i>Alupula. Mounika, K.Rajkumar</i>	
27.	USING MODIFIED MODULATION AND DOUBLE FREQUENCY RIPPLE SUPPRESSION CONTROL REDUCE THE CAPACITANCE IN A SINGLE PHASE PV QUASI-Z-SOURCE INVERTER.....	27
	• <i>P.Thirumala, V.Sreepriya</i>	
28.	AN IMPROVED IUPQC CONTROLLER TO PROVIDE ADDITIONAL GRID-VOLTAGE REGULATION AS A STATCOM	28
	• <i>S.Lokeshwari, K.Rajkumar</i>	

29.	SIMULATION OF AN IMPROVED ACTIVE POWER FILTER PERFORMANCE FOR RENEWABLE POWER GENERATION SYSTEMS.....	29
	• <i>S.Shivaprasad, M.Saikumar</i>	
30.	SIMULATION OF A MULTILEVEL CONVERTER WITH A FLOATING BRIDGE FOR OPEN-END WINDING MOTOR DRIVE.....	30
	• <i>B.Reshma, B.Sathyavani</i>	
31.	ANALYSIS OF ELECTRIFIED APPLICATION OF TRANSFORMERLESS HYBRID SERIES ACTIVE FILTER	31
	• <i>M.Mounika Priyadarshini, Dr.R.Arulmurugan</i>	
32.	SIMULATION OF HIGH ACCURACY AND FAST SPEED MPPT METHODS FOR PV STRING UNDER PARTIALLY SHADED CONDITIONS	32
	• <i>N. Sruthi, N.Lokesh Reddy</i>	
33.	GREEN HOUSE MONITORING SYSTEM BASED ON INTERNET OF THINGS	33
	• <i>Boini. Swetha, G.Renuka</i>	

