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K.S. INSTITUTE OF TECHNOLOGY

#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560 109.



Department of Computer Science and Engineering



30th COMPUTER SOCIETY OF INDIA KARNATAKA STUDENTS CONVENTION

THEME: "ROLE OF ICT TO MAKE DIGITAL INDIA"

from -

10th - 12th November, 2016 (Thu, Fri & Sat)

TM



ORGANIZED BY

Department of Computer Science & Engineering
K.S. Institute of Technology, Bengaluru

in association with

Computer Society of India



- Venue :** K.S Institute of Technology,
#14, Raghuvanahalli, Kanakapura Main Road, Bengaluru - 560109.
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Commemorating the dedication and hard work of people behind the success of the 30th CSI-KSC-2016

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WELCOME MESSAGE



We are extremely happy to know that the Department of Computer Science and Engineering of K.S.Institute of Technology is organizing a three day 30th CSI Karnataka Students Convention with theme “Role of ICT to make Digital India” from 10th – 12th of November, 2016.

We have already conducted a number of Seminars, Guest Lecture, Technical Talk, Workshop, Faculty Development Program, and National and International level conference before this event from different departments. The student convention is one step ahead to reach our objective and another one milestone in this regard. Department of Computer Science and Engineering with their team work have set another benchmark by hosting the 30th CSI student convention. We congratulate the members of convention committee who have worked hard in organizing this student convention and inspire them to continue this kind of effort in the future.

On behalf of the organizing committee, we extend our very warm welcome to all the participants coming from various parts of the state. We wish all participants fruitful and enjoyable time during the three-day event. We are sure that all the participants will be immensely benefitted & take home sweet memories of the prestigious 30th CSI student convention.

We welcome you all and wish the CSI Convention a Grand Success.

With regards

Management officials



**Dr. T V Govindaraju
Principal/Director, KSIT.**

I am pleased to mention KSIT has grown into many folds; one such fold is CSI student's convention, organized by the Department of Computer Science and Engineering, a three day 30th CSI Karnataka Students Convention with theme “Role of ICT to make Digital India” from 10th to 12th of November 2016. Management, Staff and Students are well appreciated for their involvement and support for organizing this convention. Staff is always with great motivation to provide platform to youngsters to participate and get benefit of these kind of events. It is my proud privilege to welcome all the participants / invitees / guests / speakers / judges / chairs /organizers to the 30th CSI Karnataka Students Convention. It's indeed a great pleasure that the convention is attracting students from various colleges and good number of technical presentations. The 'Proceedings' is going to be one of the informative and path finding resource. The technical program of the convention will be highly beneficial to all the participants. I hope all the delegates will have a comfortable stay & a happy memory @ KSIT during the convention.

Wishing you all a great success.



**Prof. Dr Anirban Basu PhD (Comp. Science)
President, CSI**

I am glad to know that KS Institute of Technology, Bangalore is organizing the 30th CSI Karnataka Student Convention during 10th to 12th November 2016.

I understand that the Convention has a variety of events and contests and is going to be attended by students from different colleges.

The ExecCom of Computer Society of India has always been keen to support programs which help to upgrade the technical knowledge of the student community. I hope the participants will be greatly benefited by this Convention.

I convey my best wishes for the success of the Convention.



**Dr. Prakash S.
Chairman,
CSI- Bangalore Chapter**

I take this opportunity to congratulate K.S Institute of Technology, Bangalore, for hosting 30th Karnataka Annual Student Convention of Computer Society of India. KSIT has shown high enthusiasm and passion in hosting this event. I thank in advance all the faculties and students of KSIT for their sincere efforts put towards this event. I am sure the event will be a great success.

India's Information and Communications Technology (ICT) industry is in fore front to offer solutions to turn India digital. ICT will play a key role in development & Economic growth of new digital India. Political, Cultural, Socio-economic Developmental & Behavioral decisions today rests on the ability to access, gather, analyze and utilize Information and Knowledge. ICT is the conduits that transmit information and knowledge to individual to widen their choices for Economic and social empowerment. The theme is extremely relevant for the student community as the future of India depends upon the community feeling of the young generation. It's their contribution to the society that will determine the quality of life in future. Computer Society of India has always encouraged organizing events, which help towards the prosperous and inclusive growth by sharing of knowledge amongst all sections of society, and it is very appropriate that a student convention being organized on this theme. It gives us immense pleasure to be part of this mega event. I wish this event a grand success.



**Dr. Shantaram Nayak
RVCE
Co coordinator, CSI-BC**

The annual convention for students namely "CSI Karnataka Students Convention" is the flagship event of CSI Bangalore Chapter started in the year 1987. The Student Convention organized every year provides a forum for exchange of ideas and new technology information among the students and IT Community. This year, the theme of Annual Convention is "Role of ICT to make Digital India". Considering the current ICT trends and advances in technology, this is an appropriate theme for the convention. The theme is the dream of our prime minister Sri. Narendra Modiji.

We are proud and appreciate the good decision taken by K.S. Institute Technology Bengaluru for hosting 30th Karnataka Students convention of Computer Society of India – Bangalore Chapter being organized during 10th to 12th November, 2016. CSI-BC congratulates KSIT for organizing this annual student convention in November 2016. We can expect very interesting technical sessions from the industry experts, paper presentations from students, exciting programming and Quiz contests, etc.



**Dr Rekha.B. Venkatapur
HOD, CSE
KSIT Bengaluru**

It gives me immense pleasure to greet all of you and inform that our Computer Science and Engineering Department is organizing 30th CSI Karnataka Student convention with a theme "Role of ICT to make Digital India". Information and Communication Technologies (ICT) play key role in socio economic empowerment. The contribution of ICT in e-Governance, citizen centric service and rural development is significant. This convention gives a platform for students, researchers and Industry to exchange information on ICT. I hope this student convention will be joyful, memorable and useful for participants by enhancing your knowledge and network.

"WISH YOU ALL A VERY HAPPY AND PROSPEROUS NEW YEAR - 2017"

30th CSI Karnataka Students Convention Committee

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Event Co-ordinator

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Ms. K. Sujatha, Instructor, Dept of CSE
Miss Shri Raksha, Student, Dept of CSE

About The College

The Kammavari Sangham, a multi-activity non-profit oriented voluntary service organization, was established in the year 1952 with the sole objective of providing charitable service to community and society. The Sangham has diversified its activities since its establishment over five decades ago. With a firm belief that quality and meaningful education only can lay the strong foundation for bringing about economic and social changes to the lives of thousands. The Sangham went about establishing educational institutions, starting with K.S. Polytechnic in 1992. Enthused with this success of its foray into technical education, the Sangham moved forward by starting the K.S Institute of Technology (KSIT). Its engineering college in the year 1999. In the following years both these institutions have carved for themselves an enviable niche through academic excellence achieved in a very short span of time. Apart from the educational initiatives, on the cultural front, the Sangham has ventured to build and manage convention centers.



About the Department

Vision:

To provide competent and responsible professionals in the field of Computer Science & Engineering with knowledge and skill required for leading the country in its quest for development.

Mission:

"Inculcate Strong theoretical and practical knowledge for continuous learning".

"Prepare students to find computer solutions for the society through research & entrepreneurship with professional ethics".

"Encourage team work in inter-disciplines & evolve as leaders with social concerns".

The Department of Computer Science and Engineering was established in the year 1999. The department offer Undergraduate & Post Graduate programme in Computer Science & Engineering. The department has a very good infrastructure and faculty to provide excellent education to Meet the industry standards.

Today, the department caters to the needs of more than 350 UG students. It houses state of the art computing facilities with high end servers which support the LAN, provide a Linux/Unix environment, also provides exclusive library facility to its students and boasts of well trained and experienced faculty teaching the departments various courses in the areas of Computer Networks, Computer Architecture, Database Systems, Microprocessor, Operating Systems, Analysis and Design of Algorithms and Software Engineering.

The department lays stress on the practical and application based aspects through laboratories, seminars, group discussions, viva-voce and project work, keeping pace with the growth in Computer Science & Engineering technology.

The Students are given scope to conduct experiments on innovative ideas. A sound theoretical and practical work prepares the students in wider field of Computer Science & Engineering to take up challenging jobs in the area of:

- * System Software Development
- * Application Software Development
- * Computer Networking

SI.No	Name of the Faculty	Designation
1	Dr.Rekha.B.Venkatapur	Prof. & Head
2	K.Venkata Rao	Assoc.Prof
3	Harshavardhan.J.R	Assoc.Prof
4	Deepa.S.R	Assoc. Prof
5	Vaneeta.M	Assoc Prof
6	Sangeetha.V	Assoc Prof
7	Priyanga.P	Asst. Prof
8	Sougandhika Narayan	Asst. Prof
9	Mamatha.A	Asst. Prof
10	Vijayalaxmi.M	Asst. Prof
11	Sanjoy Das	Asst. Prof
12	Roopesh Kumar.B.N	Asst. Prof
13	Kushal Kumar.B.N	Asst. Prof
14	Pradeep.K.R	Asst. Prof
15	Kumar.K	Asst. Prof
16	Pradeep Kumar.G.H	Asst. Prof
17	Raghavendrachar.S	Asst. Prof
18	Aditya Pai.H	Asst. Prof
19	Swathi. K	Asst. Prof
20	Krishna Gudi	Asst. Prof
21	Renukadevi.S	Asst. Prof
22	S.Kokila	Asst. Prof
23	Siddu Tushara.M.S	Asst. Prof
24	Impana.K.P	Asst. Prof

SI. NO	Name of Staff	Designation
1	K.Venugopal Naidu	System Admin
2	K.Sujatha	Programmer
3	V.Vimala Kumari	Programmer
4	N.Gururaja	Instructor
5	B.Bhuvaneshwari	Instructor
6	Divya.R.G	Instructor
7	M.Madan Kumar	Mechanic
8	G.Kumari	Attender
9	J.Thyagarajulu	Attender
10	M.Salamma	Attender
11	Veeranna	Attender

About Computer Society of India (CSI)

Computer Society of India – Bangalore Chapter (CSI-BC), formed in 1965, the CSI has been instrumental in guiding the Indian IT industry down the right path since its formative years. Today, the CSI has 72 chapters all over India, 511 student branches, and more than 1,00,000 members, including India's most famous IT industry leaders, brilliant scientists and dedicated academicians. The mission of the CSI is to facilitate research, knowledge sharing, learning and career enhancement for all categories of IT professionals, while simultaneously inspiring and nurturing new entrants into the industry and helping them to integrate into the IT community. The CSI is also working closely with other industry associations, government bodies and academia to ensure that the benefits of IT advancement ultimately percolate down to every single citizen of India.

CSI endeavors to:

- Promote interchange of information, in these disciplines and sub-disciplines, amongst the specialists and between specialists and the public.
- Encourage and assist the professionals engaged in these fields to maintain the integrity and competence of the profession
- Foster a sense of partnership amongst the professionals engaged in these fields.
- Means to these ends are holding of meetings for the reading and discussing of professional papers, publication and circulation of works of literature, science and art pertaining thereto and any other activities necessary; suitable and proper for the fulfillment of these objectives.

Some of the popular activities targeted towards educational institutions, students, upcoming professionals (with the intent of increasing IT literacy and awareness, evaluating IT competency, talent search, Industry-Academic interaction, etc.) include: State level annual student convention, National Software Talent Contest, DOEACC examinations, Young IT Professionals Award.

CSI-BC conducts several activities regularly including:

Evening talks by seasoned professionals, Seminars, workshops, conferences, Annual convention that attracts professionals from all over the country and abroad, Programs to spread IT awareness amongst rural populace. CSI being a non-profit organization depends upon sponsorships, voluntary contributions from individuals and corporate bodies to sustain and expand its operations and infrastructure to provide value to the IT fraternity at large through its various activities.

CSI Karnataka Students Convention

Members of the Management Committee of COMPUTER SOCIETY OF INDIA – BANGALORE CHAPTER [CSI-BC], in the year 1987 thought of providing a platform for the young talented minds to exhibit their skills. The action resulting out of these noble thoughts was given a shape in the form of an Annual CSI Karnataka Student Convention. The CSI Karnataka Annual Student Convention is a unique academic activity of CSI-BC. This annual convention is hosted by an Engineering College situated in Karnataka normally alternating between Bangalore and a location outside Bangalore. Twenty Five (25) names are there in the list of names of Host institution for 30 such convention. Three Institutions namely – RVCE, B'llore (4 times) & GIT, Belgaum & SIT Tumkur (2 times) have each hosted the convention more number of times.

About the convention : The convention provides a professional platform for students of various streams of IT to showcase their talent. Invited talks from practicing professionals provide the students an opportunity to learn about the current industry trends. The convention also provides an opportunity for networking between the students, professionals and academicians.

The convention includes : PAPER PRESENTATION, QUIZ, BUG ME OUT, SUDOKU, WEB DESIGN, PIC-STORY, BEAT-DA-VINCI, NFS, WORD WAR, LOGO DESIGN, PIC CHARADES, COUNTER STRIKE, QUICK CLICK.

Motive : The convention was planned with an intention to bring awareness about Technology trend among the younger generation people more specifically the Future Engineers of India. The tradition has continued and will continue for years.

The seed planted during 1987 has grown as 28 year old tree with 25 (Host Institutions) branches.

CSI-BC respects the following host institutions for having hosted the CSI event

CSI Karnataka Students Conventions Down the Memory Lane

Computer Society of India, Bangalore Chapter [CSI – BC]

Flat No. 201, II Floor MBC, No. 134, Infantry Road, Bengaluru-560001

Ph: +91-080-22860461, Tele Fax: +91-080-22862215

e-mail: csibcksc@gmail.com



No.	Host Institution	Year
1.	B M S College of Engineering Bangalore (BMSCE)	1987
2.	R.V.College of Engineering Bangalore (RVCE) *	1988
3.	Malnad College of Engineering Hassan (MCE)	1989
4.	Gogte Institute of Technology Belgaum (GIT) **	1990
5.	Siddaganga Institute of Technology Tumkur (SIT) **	1991
6.	Bapuji Institute of Engg. & Tech Davangere(BIET)	1992
7.	Dayananda Sagar College of Engg. Bangalore(DSCE)	1993
8.	Manipal Institute of Technology Manipal(MIT)	1994
9.	S D M College of Engg. & Tech Dharwad (SDMCET)	1995
10.	R.V.College of Engineering Bangalore (RVCE) *	1996
11.	J N N College of Engineering Shimoga (JNNCE)	1997
12.	National Institute of Engineering Mysore (NIE)	1998
13.	M S Ramaiah Institute of Technology Bangalore(MSRIT)	1999
14.	Gogte Institute of Technology Belgaum (GIT) **	2000
15.	P E S Institute of Technology Bangalore (PESIT)	2001
16.	K V G College of Engineering Sullia (KVGCE)	2002
17.	Sri Siddartha Institute Technology Tumkur (SSIT)	2003
18.	Global Academy of Technology Bangalore (GAT)	2004
19.	Adichunchanagiri Institute of Technology Chickmagalur (AIT)	2005
20.	R.V.College of Engineering Bangalore (RVCE) *	2006
21.	M.V.J. College of Engineering (MVJCE) Bangalore	2007
22.	N M A M Institute of Technology, Nitte, Karkala (NMAMIT)	2008
23.	Acharya Institute of Technology, Bangalore (ACIT)	2009
24.	Sri Jayachamarajendra College of Engineering, Mysore(SJCE)	2010
25.	R.V.College of Engineering Bangalore (RVCE) *	2011
26.	Siddaganga Institute of Technology Tumkur (SIT)**	2012
27.	Reva Institute of Technology & Management, Bangalore(RITM)	2013
28.	HKBK College of Engineering, Bangalore (HKBKCE)	2014
29.	GSSS Institute of Engineering & Technology for Women, Mysuru	2015
30.	Kammavari Sangham Institute of Technology, Bengaluru (KSIT)	2016

* Hosted the convention 4 times.

** Hosted the convention 2 times.

About the 30th CSI Students Convention

K S Institute of Technology is organizing 30th CSI KARNATAKA STATE STUDENTS CONVENTION in collaboration with Computer Society of India on 10th, 11th and 12th of November, 2016. The convention is set to be themed as "ROLE OF ICT TO MAKE DIGITAL INDIA".

The convention includes both technical and non-technical events which run hand-in-hand on all the three days. The commencement of the convention will be marked by the inaugural function which includes talk by eminent professionals, alumni's and faculties. The student get to witness the cultural heritage of the country.

This convention proves to serve as a platform to portray the technical skills of the students by presenting the papers authored by them. Apart from this, the convention strives to bring out the hidden talents of the student with the set of following events.

EVENTS:

- ◆ **Paper Presentation:** A platform to showcase your ideas at a professional level.
- ◆ **Quiz:** A common know-it-all quiz.
- ◆ **Logo Designing:** Unleash your mastery of design. Design a logo that you think will stand out among the crowd using simple yet effective tools such as Photoshop or Corel Draw.
- ◆ **Web Designing:** For all the tech-spiders out there.
- ◆ **Pic-charades:** Dumb-charades just got a little pickled.
- ◆ **Word-War:** Reason your way to victory. How long can you hold your ground against your contemporaries!
- ◆ **Pic Story:** Ever wanted to be an author? Well, this is your opportunity! Given pictures, all participants will be judged on how well they build a story around it and the actual narration of the story.
- ◆ **Quick Click:** Capture the best moments of the ongoing events on all the three days.
- ◆ **Bug Me Out:** Beware of bugs!!
- ◆ **Beat-Da-Vinci:** Everyone has an artist in them and it stirs when you put a paint brush in their hand. (Get your own supplies.)
- ◆ **Counter-Strike-1.6:** Be a part of the massively popular game that took the world by storm! Pick your side as either Counter-Terrorists or Terrorists, and fight your way to eternal glory.
- ◆ **Need For Speed Most wanted:** Come and take part in the ever trending clash of the wheels and show the world who is the fastest.
- ◆ **Sudoku:** Think you're a Sudoku master? Well, you might want to think again. Try our new alphanumeric Sudoku and see if you can crack it.

Programme Schedule

Day 1: November 10th Thursday, 2016

08:30AM to 09:00AM - Registration
09:00AM to 11:00AM - Inauguration & stage events
11:00AM to 11:15AM - Break
11:15AM to 01:15PM - Paper Presentation
01:15PM to 02:15PM - Lunch
02:15PM to 04:00PM - Quiz

Day 2: November 11th Friday, 2016

09:00AM to 10:20AM - Bug me Out, Sudoku
10:20AM to 10:45AM - Break
10:45AM to 12:25PM - Web Designing, Pic Story
12:25PM to 01:25PM - Lunch
01:25PM to 03:00PM - Beat da Vinci, NFS

Day 3: November 12th Saturday, 2016

09:00AM to 11:00AM - Word War, Logo designing
11:00AM to 11:15AM - Break
11:15AM to 01:00PM - Pic Charades, Counter Strike
01:00PM to 02:30PM - Lunch
02:30PM to 04:00PM - Valedictory

Paper Presentation Schedule

Date	SESSION	Time	PAPER PRESENTATION SCHEDULE
10-11-2016 Thursday	1	11.30 am to 01.15 pm	SP-12,02,05,21,03,18,19,17
	2	02:00 pm to 03:00 pm	SP-14,29
	3	11.30 am to 01.15 pm	PP-08,09(Poster Display)
11-11-2016 Friday	4	9.15 am to 11.00 am	SP-01,09,10,04,06,07,31
	5	11.15 am to 01.00 pm	SP-11,24,25,26,27,28,08
	6	1.45 pm to 3.30 pm	SP-15,16,13,20,30,22,23, 32
	7	3.00 pm to 4.30 pm	PP-01 TO 07,10(Poster Display)



Programme Schedule

Thursday, 10-Nov-2016

30th CSI KARNATAKA STUDENT CONVENTION

Time	Activity
08:30-09:00	Registration
09:00-10:30	Inauguration
10:30-10:45	Break
10:45-01:15	Paper Presentation
01:15-02:15	Lunch
02:15-04:00	Quiz

Friday, 11-Nov-2016

Time	Activity 1	Activity 2
09:00-11:00	Bug Me Out	Sudoku
11:30-11:15		Break
11:15-01:00	Web Design	Pic-Story
01:30-02:30		Lunch
02:30-04:00	Beat-Da-Vinci	NFS

Saturday, 12-Nov-2016

Time	Activity 1	Activity 2
09:00-11:00	Word War	Logo Design
11:30-11:15		Break
11:15-01:00	Pic-Charades	Counter Strike
01:30-02:30		Lunch
02:30-04:00		Valedictory

For any queries Contact:

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Sri D. Rukmanagada, Treasurer

Patrons:

Dr. T.V. Govindaraju, Principal/Director, KSIT
Advisory Committee:
Dr. Anirban Basu, President, CSI
Mr. Sanjay Mohapatra, Vice President, CSI
Prof. A. K. Nayak, Hon. Secretary, CSI
Shri R. K. Vyas, Hon. Treasurer, CSI
Mr. Raju L. Kanchibhotla, Regional Vice President, Region-V, CSI

Dr. Prakash S., Chairman, CSI Bangalore Chapter
Dr. Satish K. S., Vice Chairman, CSI Bangalore Chapter
Dr. Shantanam Nayak, Prof. R V College of Engineering, Bangalore

Prof. Prashant R Nair, National Student Coordinator, CSI
Prof. C. Srinivas, Regional Student Coordinator, Region-V, CSI
Prof. Suman Jayakumar, State Student Co-ordinator, Karnataka State, CSI

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Mr. Kushal Kumar B N, Asst Prof., CSE
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Ph: +919972974794



About the college:

The Kammavari Sangham, a multi-activity non-profit oriented voluntary service organization was established in the year 1952 with the sole objective of providing charitable service to community and society. The Sangham has diversified its activities since its establishment over five decades ago. With a firm belief that quality and meaningful education only can lay the strong foundation for bringing about economic and social changes to the lives of thousands. The Sangham went about establishing educational institutions, starting with K.S. Polytechnic in 1992. Endorsed with this success of its foray into technical education, the Sangham moved forward by starting the K.S Institute of Technology (KSIT). Its engineering college in the year 1999. In the following years both these institutions have carved for themselves an enviable niche through academic excellence achieved in a very short span of time. Apart from the educational initiatives, on the cultural front, the Sangham has ventured to build and manage convention centers.



EVENTS:

- ◆ **Paper Presentation:** A platform to showcase your ideas at a professional level.
- ◆ **Quiz:** A common know-it-all quiz.
- ◆ **Logo Designing:** Unleash your mastery of design. Design a logo that you think will stand out among the crowd using simple yet effective tools such as Photoshop or Corel Draw.
- ◆ **Web Designing:** For all the tech-spiders out there.
- ◆ **Pic-charades:** Dumb-charades just got a little pic-kled.
- ◆ **Word-War:** Reason your way to victory. How long can you hold your ground against your contemporaries?
- ◆ **Pic Story:** Ever wanted to be an author? Well, this is your opportunity! Given pictures, all participants will be judged on how well they build a story around it and the actual narration of the story.
- ◆ **Quick Click:** Capture the best moments of the ongoing events on all the three days.
- ◆ **Bug Me Out:** Beware of bugs!!
- ◆ **Beat-Da-Vinci:** Everyone has an artist in them and it stirs when you put a paint brush in their hand. (Get your own supplies.)
- ◆ **Counter-Strike-1.6:** Be a part of the massively popular game that took the world by storm! Pick your side as either Counter-Terrorists or Terrorists, and fight your way to eternal glory.
- ◆ **Need For Speed Most wanted:** Come and take part in the ever trending clash of the wheels and show the world who is the fastest.
- ◆ **Sudoku:** Think you're a Sudoku master? Well, you might want to think again. Try our new alphanumeric Sudoku and see if you can crack it.
- ◆ **About CSI:** The need for the Computer Society of India (CSI) was first sown in the year 1965 with a handful of IT enthusiasts who were a computer group and felt the need to organize their activities. Today the CSI takes pride in being the largest and most professionally managed association of and for IT professionals in India. The purposes of the Society are scientific and educational directed towards the advancement of the theory and practice of computer science and IT.

Fee Structure:

Registration Type	CSI Member	Non CSI Member
Event Registration	400	500

Paper Submission Details:

- ◆ Multiple registration can be done by enclosing all the student names along with a DD for the entire group certified by HOD/Principal of the respective college. Solo registrations are also accepted.
- ◆ All payments should be made by DD in favor of “K.S Institute of Technology, Bangalore”.
- ◆ Postal Address:- Dept of CSE, KSIT, #14, Raghuvanahalli, Kanakpura Main Road, Bengaluru-560109.
- ◆ Last date for paper submission : 27/10/2016
- ◆ Notification of acceptance : 5/11/2016
- ◆ Send one hard-copy of full length paper and one page abstract to CSI HQ (address mentioned below)
- ◆ Soft copy of the proceedings will be provided with ISBN No.
- ◆ Send one soft-copy of full length paper and one page abstract to the mail id also without fail.
- ◆ Papers must be authenticated/attested from HOD/Principal.
- ◆ Eligibility for paper submission : B.E., M.Tech, MCA – students only.
- ◆ If certification required for non-registered team members extra 100/- Rs each.
- ◆ For Paper format & other details visit www.ksit.ac.in

Mailing Address:

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Ph: +91-080-22860461
Tele Fax: +91-080-22862215



K.S. INSTITUTE OF TECHNOLOGY

*Cordially invites you to the Inauguration of
30th CSI Karnataka Students Convention*

Theme: "ROLE OF ICT TO MAKE DIGITAL INDIA"

on Thursday, 10th November 2016 at 9.00 AM

Venue: Conference Hall, K.S.I.T

CHIEF GUEST

H.Raghavendra Rao

Senior Director,

Oracle Financial Services Software Ltd

GUEST OF HONOUR

Dr. Prakash S

Chairman,

CSI, Bangalore Chapter

will deliver the Keynote Address

Sri. Y. Ramachandra Naidu
President, Kammavari Sangham

Sri. K Venkatesh Naidu BE
Hon. Secretary, Kammavari Sangham

Sri. D Rukmangada BE,MBA
Treasurer, Kammavari Sangham

will preside over the function

Dr. Rekha B. Venkatapur
Prof. & HOD Dept Of CSE, K.S.I.T

Dr. T.V. Govindaraju
Principal/Director, K.S.I.T

Sri Y. Ramachandra Naidu	President
Sri T. Ramachandra Naidu	Vice-President
Sri K. Shiva Rao	Vice-President
Sri K. Venkatesh Naidu	Hon. Secretary
Sri B. Lokanadha Naidu	Joint- Secretary
Sri R. Leela Shankar Rao	Joint-Secretary
Sri D. Rukmangada	Treasurer
Sri L. Krishnamoorthy	Internal Auditor
Sri M. Yogamurthy	Chairman, Finance Committee
Sri T. Neerajakshalu Naidu	Chairman, Hostel Committee
Sri N. Krishnama Naidu	Chairman, Building Committee
Sri D. Jagadish Kumar	Chairman, Hospital Committee
Sri M. Sudhakar	Chairman Legalcell
Sri P. B. Prakash Kumar	Chairman, Transport Committee
Sri M. N. Padmanabha	Director
Sri T. Kumar	Director
Sri N. M. Krishnamurthy	Director
Sri A. V. Nagaraj	Director
Sri M. C. Varadharaja	Director

AGENDA

- > Welcome speech
- > Lighting the lamp
- > Invocation Dance
- > About CSI
- > Introduction of Chief Guest
- > Address by Chief Guest
- > Introduction of Guest of Honour
- > Address by Guest of Honour
- > Release of CSI Proceedings
- > Felicitation
- > Address by Sri. K. Venkatesh Naidu, Hon. Secretary
- > Address by Sri. D.Rukmangada, Treasurer
- > Presidential address
- > Vote of thanks



K.S. INSTITUTE OF TECHNOLOGY

*Cordially invites you to the Valedictory function of
30th CSI Karnataka Students Convention*

Theme: "ROLE OF ICT TO MAKE DIGITAL INDIA"

on Saturday, 12th November 2016 at 2.30 PM

Venue: Conference Hall, K.S.I.T

CHIEF GUEST

Sushama Shadakshary
Associate Developer,
SAP Labs India pvt. ltd.

Sri. Y. Ramachandra Naidu
President, Kammavari Sangham

Sri. K Venkatesh Naidu B.E
Hon. Secretary, Kammavari Sangham

Sri. D Rukmangada B.E, M.B.A
Treasurer, Kammavari Sangham

will preside over the function

Dr. Prakash S
Chairman,
CSI, Bangalore Chapter

Dr. Rekha B. Venkatapur
Prof. & HOD Dept Of CSE, K.S.I.T



Dr. T.V. Govindaraju
Principal/Director, K.S.I.T

Sri Y. Ramachandra Naidu	President
Sri T. Ramachandra Naidu	Vice-President
Sri K. Shiva Rao	Vice-President
Sri K. Venkatesh Naidu	Hon. Secretary
Sri B. Lokanadha Naidu	Joint-Secretary
Sri R. Leela Shankar Rao	Joint-Secretary
Sri D. Rukmangada	Treasurer
Sri L. Krishnamoorthy	Internal Auditor
Sri M. Yogamurthy	Chairman, Finance Committee
Sri T. Neerajakshalu Naidu	Chairman, Hostel Committee
Sri N. Krishnama Naidu	Chairman, Building Committee
Sri D. Jagadish Kumar	Chairman, Hospital Committee
Sri M. Sudhakar	Chairman Legalcell
Sri P. B. Prakash Kumar	Chairman, Transport Committee
Sri M. N. Padmanabha	Director
Sri T. Kumar	Director
Sri N. M. Krishnamurthy	Director
Sri A. V. Nagaraj	Director
Sri M. C. Varadharaja	Director

AGENDA

- > Welcome speech
- > Invocation Song
- > CSI Report
- > Introduction of the Chief Guest
- > Address by Chief Guest
- > Cultural events
- > Prize distribution
- > Vote of thanks



30th CSI Karnataka Student Convention-2016

Theme: "ROLE OF ICT TO MAKE DIGITAL INDIA"

Registration Form

Name: _____

Institution: _____

Year: _____

Email: _____

Ph.No. : _____

CSI Membership No.: _____ USN: _____

Amount Paid: _____

Events

Day 1

Slot 1: Paper presentation

Slot 2: Quiz

Day 2

Slot 1: Bug me Out (OR) Sudoku

Slot 2: Web designing (OR) Pic-Story

Slot 3: Beat-Da-Vinci (OR) NFS

Day 3

Slot 1: Word War (OR) Logo Design

Slot 2: Pic-Charades (OR) Counter Strike

3 Days events

Quick-Click

Signature of the Principal/HOD

Signature of Applicant with date

*Only one event per slot can be chosen. We are not responsible for clash of events.



30th CSI KARNATAKA STUDENTS CONVENTION
10th, 11th & 12th OF NOVEMBER 2016

ORGANIZED BY

K.S. INSTITUTE OF TECHNOLOGY K S I T

No.14, Raghuvanahalli, Bangalore-560109

DEPT. OF COMPUTER SCIENCE & ENGINEERING



Theme: "ROLE OF ICT TO MAKE DIGITAL INDIA"



Logo Designing

Pro-Charades

PAPER PRESENTATION



Quick Click

WORD-WAR

BEAT-DA-VINCT

COUNTER STRIKE



Bug Me Out!



Web Designing

ATTRACTIVE
CASH
PRIZES!!!

REGISTRATION FEE-

CSI MEMBERS - RS. 400

NON CSI MEMBERS- RS. 500

LAST DATE FOR PAPER SUBMISSION-27/10/16

CONTACT US@ kositcsiconvention30@gmail.com Karthik-9620693594 Mithun-9741937729



30th CSI KARNATAKA STUDENTS CONVENTION
10th, 11th & 12th OF NOV
ORGANIZED BY



K S I T
K S INSTITUTE OF TECHNOLOGY

K.S. INSTITUTE OF TECHNOLOGY

No.14, RAGHUVANAHALLI, BANGALORE-560109

DEPT. OF COMPUTER SCIENCE & ENGINEERING

Theme: "ROLE OF ICT TO MAKE  DIGITAL INDIA"

EVENTS:

SUDOKU

QUIZ

PIC-CHARADES

COUNTER STRIKE

PAPER PRESENTATION

PIC-STORY

(LAST DATE FOR PAPER SUBMISSION-27/10/16)

BUG ME OUT!

LOGO DESIGNING

BEAT-DA-VINCI

QUICK CLICK

NEED FOR SPEED-MW

WORD-WAR

WEB DESIGNING

REGISTRATION FEE-

CSI MEMBERS - RS. 400

NON CSI MEMBERS - RS. 500

CONTACT Us@ ksitcsi.convention30@gmail.com

KARTHIK - 9620693594, MITHUN - 9741937729



30th CSI Karnataka Students Convention – Paper Presentation Schedule, Thursday (10-11-2016)

Technical Session: 1

Time:11:15am-01:15pm

Venue: Conference Hall

Sl. No	Author(s)	College	Title of the Paper	Ref No.
01	Bramara K A, Kavyashree S, Madhurya T, Madhushri S	GSSSIETW, Mysuru	Segmentation of the Word From Image Document Using MATLAB	SP-12
02	Prathiksha M Y, Railal K, Sheethal Bopaiah M, Sonu P	GSSSIETW, Mysuru	Practical Detection of Spammers in Online Video Sharing System	SP-02
03	Sara Fatima, Sanya Vaz	GIT, Belagavi	Brain Gate and Brain Interface Network	SP-05
04	Sadaf Mulla, Shifa Sanadi	GIT, Belagavi	Aspects of Database Security	SP-21
05	Chandana K K, Cyana D' sa,, Navya K	GSSSIETW, Mysuru	Frequency Distribution of English Numerals with Different Font Styles	SP-03
06	Shilpa M, Simranpal R, Sindhu Prof. Manju Prasad. B	GSSSIETW, Mysuru	Build a Client Server Architecture for Centralized Lab setup for Institute	SP-18
07	Ranjitha.R, Shambhavi K.M, Sharanya Prakash, Supritha K.G, Prof. Manju Prasad B	GSSSIETW, Mysuru	Microservice for Healthcare Ecosystem	SP-19
08	Namratha D, Suhasini S, Sushma P Krishnan	GSSSIETW, Mysuru	Friendbook: A Semantic Based Friend Recommendation System for Social Networks	SP-17

Technical Session: 2

Time:02:15pm-03:00pm

Venue: Conference Hall

SL NO	Author(s)	College	Title of the Paper	Ref No
01	Pavithra.R, Pavithra.K.M, Nandini C.R. Prof. Janaki. K	RRCE, B'llore	Image Processing based Degraded Camera Captured Document Enhancement for Improved OCR Accuracy	SP-14
02	Jayashree A, Kavana C M, Prof. Janaki K	RRCE, B'llore	Apparel Online Shop Reflecting Customer Perception	SP-29

30th CSI Karnataka Students Convention – Poster Presentation Schedule ,Thursday (10-11-2016)

Technical Session: A

Time:11.30am – 01.15pm

Venue: Conference Hall

SL NO	Author(s)	College	Topic	PP No
01	Divyashree M, Gagana S, Usha D N, Monika H D	GSSSIETW, Mysuru	Survey on Continuous and Transparent User Identity Verification for Secure Internet Services	PP-08
02	Harini S, Anushitha K M Prof. Janaki K	RRCE, B'llore	Underwater Image Enhancement using Single Scale Retinex on a Reconfigurable Hardware	PP-09

30th CSI Karnataka Students Convention – Paper Presentation Schedule , Friday (11-11-2016)

Technical Session: 3

Time:09:15am-11:00am

Venue: Conference Hall

Sl. No	Author(s)	College	Title of the Paper	Ref No.
01	Deepanksha Dhingra, Shreyans Jain, Shreyas S B	RVCE, B'lore	Sentimental Analysis for Twitter data	SP-01
02	Shri Raksha N, Varsha R, Amulya K Murthy, Soumyashree, Prof. Kumar K,	KSIT, B'lore	METAPHRASE: Mobile Application for Language Translation	SP-09
03	Khadija Zavery, Haripriya Ramesh, Vaishnavi Singh, Dr. B M Sagar,	RVCE, B'lore	Textual Information Retrieval using Inverted Index	SP-10
04	Meghana S, Pooja C , Hemashri R M, Aishwarya Nagesh Kamath	Jyothi IT, B'lore	Suraksha: Digital Transformation to Indian Police Services	SP-04
05	Aditya R, Anirudh.K.R, Karthik.K.S, Mahinder.P, Prof. Deepa.S.R	KSIT, B'lore	Near Field Communications [NFC] Ordering System	SP-06
06	Sania Aslam, Shankha Shuvro Sinha, Srinidhi G, Vidya G, Prof. Pradeep Kumar G H	KSIT, B'lore	Implementing Home Security for the Visually Impaired Using RASPBERRY PI	SP-07
07	Vinyas R, Vinay P, Prashanth M, Yugandhar G	RNSIT, B'lore	E-Forms for Banking System	SP-31

Technical Session: 4

Time:11:15am – 01:00pm

Venue: Conference Hall

Sl. No	Author(s)	College	Title of the Paper	Ref No.
01	A M Anmoldeep	GAT, B'lore	INTERNET OF THINGS	SP-11
02	Sohan M V	KSIT, B'lore	Attack And Defence Strategies In Android Using MSFVenom In Metasploit Framework Over Wide Area Network	SP-24
03	Poornapragna Vadiraj, Chinmay S Watwe, Sohan M V, Thejas B S	KSIT, B'lore	Cloud Assisted Video Recommendation System	SP-25
04	Aayush Kumar, Keshav Kumar, Siddharth Shekhar Singh, Prof. Vaneeta M	KSIT, B'lore	A Survey On Graphical Password Authentication Methods	SP-26
05	Aparna P, Meghana Malini B V, Malini T R, Chaitra K, Prof. Siddu Tushara M S	KSIT, B'lore	Survey on Efficient Accessing of Small Files in HDFS:TLB-MapFile	SP-27
06	Rashmi H (M.Tech student) Prof. K Venkata Rao	KSIT, B'lore	Privacy Preserving Multi-Keyword Rank Search Over Encrypted Data	SP-28
07	Pooja S, Vyshnavi R, Prathiksha M Nadgir, Zakiya Khanum, Vijayalaxmi Mekali	KSIT, B'lore	A Survey On Deblurring The Blurred Image	SP-08

Technical Session: 5

Time:01.45 – 03.30

Venue: Conference Hall

Sl. No	Author(s)	College	Title of the Paper	Ref No.
01	Nireeksha, M Shravya, R Deeksha	APSCE, B'llore	Sixth sense: Techno coming to life	SP-15
02	Somnath Bage, Jyothi R, Bharath M, Sany Sasi	Cambridge IT, B'llore	Comparative Study of Network Simulator-3 and Network Simulator-2	SP-16
03	Prashanth B M, Rakshitha.N.G, Rashmi. A, Samana A.B. Prof. Sougandhika Narayan	KSIT, B'llore	A Survey on Web Application Supporting Vehicle Toll Payment System	SP-13
04	Rakesh.S, Sanket.S.Kulkarni, Yashaswini.N Prof. Harish.K	Jyothi IT, B'llore	Implementation of Location based Services in Android using GPS – FriendFinder Android app	SP-20
05	Ramu B S, Smitha K A Dr. D V Ashoka	JSSATE, B'llore	A Survey on Fog Computing	SP-30
06	Nithin P, Rahul Ganesh S, Prajwal Gowda B, Somashekhar M, Prof. Kokila S	KSIT, B'llore	Mitigating the Risk of Customer Churn	SP-22
07	Apoorva Ravi, Avvari Rachana, manasa Gowri J, N Anushree, Prof. Pradeep Kumar G H	KSIT, B'llore	Autonomous Car on Raspberry Pi using OpenCV	SP-23
08	Prashanth Reddy A, Shubh Mehta, Vishal P S, Varun S	RNSIT, B'llore	Memory Efficiency in CCTV Surveillance Systems by Removing Data Redundancy	SP-32

30th CSI Karnataka Students Convention – Poster Presentation Schedule Friday (11-11-2016)

Technical Session: B

Time: 2.30 pm – 04.30 pm

Venue: CSE Seminar Hall

Sl. No	Author(s)	College	Topic	PP No
01.	Ankit Ratan, Milind Agarwal Dr. C. Nandini	DSATM, B'llore	Smart Highway Using Arduino	PP-01
02.	Neha A Maladkar, Manjari R Kulkarni	GIT, Belagavi	Face Recognition System – Challenges and its Possible Solutions	PP-02
03	Mehtaz N Sidnale, Chandana V, Diksha, Kalpana G N Mr. K Venkata Rao	KSIT, B'llore	Wireless Communication based Advanced Irrigation Vehicle Operated using Smart Phone-AGRIBOT	PP-03
04.	Chethana.N.Gowda, Jayashree Kavya, Prof. Jayasudha B S K	KSIT, B'llore	Body Area Network and Wireless Personal Area Networking for Healthcare	PP-04
05.	Maanasa N, Mamatha P N, Manasa M, Meghana R	KSIT, B'llore	Secure Image Processing on the Cloud	PP-05
06	Saniya Farzeen, Sakshi S Jain	APSCE, B'llore	Healing Phobias using Augmented Reality	PP-07
07	BhavyaShree M N, Sowmya R	RRCE, B'llore	Major Advancements in 3D Printing Technology and Its Bio-medical Applications	PP-06
08	Akshata V Khandke, Asha, Namratha N R, Prof Kameshwari	SJBIT, B'llore	Blue Eyes Technology	PP-10

Abstracts

Paper Presentation Session:1

SP12 - Segmentation of the Word From Image Document Using MATLAB

Bramara K A, Kavyashree S, Madhurya T, Madhushri S
CSE Department, GSSS Institute of Engineering and Technology for Women, Mysuru – 570016.

ABSTRACT: The present work is an attempt to develop a method of segmenting the words and characters. The images are here nothing but the printed text. The image text will be segmented into words and then characters. Our proposed method uses scanning, which perform horizontal scanning and vertical scanning in order to differentiate the words and characters. Here each character is represents in the form of matrix. There are some other methods which helps to segment the text, for example by histogram image which helps to find out the spaces between words and characters, by finding the connectivity of the pixel in the character and split and merge approach

SP21- Aspects of Database Security

Sadaf Mulla, Shifa Sanadi
Department of EEE and CSE
KLS Gogte Institute of Technology, Belagavi -590008.

ABSTRACT: Database security refers to the collective measures used to protect and secure a database or database software from illegitimate use and malicious threats and attacks .Database security incorporates a wide array of security topics ,notwithstanding, physical security, network security, encryption and authentication, this paper focuses on concepts and mechanisms particular to securing data .Database security is based upon a framework encompassing three constructs confidentiality, integrity and availability .A database protection solution must include all of these elements of database protection: Compliance :Auditing, Access control, SQLi query protection and patching, data masking, Data encryption.

SP02 - Practical Detection of Spammers in Online Video Sharing System

Prathiksha M Y, Railal K, Sheethal Bopaiah M, Sonu P
Department Of Information Science And Engineering
GSSS Institute of Engineering and Technology for Women, Mysuru – 570016.

ABSTRACT: YouTube is one of the largest video sharing websites with social networking features on the Internet. The immense popularity of YouTube, anonymity and low publication barrier has resulted in several forms of misuse and video pollution such as uploading of malicious, copyright violated and spam video or content. It has been observed that the presence of opportunistic users post unrelated, promotional, pornographic videos (spam videos posted manually or using automated scripts). A method of mining YouTube to classify a video as spam or legitimate based on video attributes has been presented. The empirical analysis reveals that certain linguistic features (presence of certain terms in the title or description of the YouTube video), temporal features, popularity based features, time based features can be used to predict the video type. We identify features with discriminatory powers and use it to recognize video response spam.

SP05 - Brain Gate and Brain Interface Network

Sara Fatima, Sanya Vaz
CSE Department, KLS Gogte Institute of Technology, Belagavi -590008.

ABSTRACT: The idea of reading one's mind or actions would have seemed unendurable few decades ago. But now with the assistance of today's technology this idea has no longer been on papers but has been implemented. This neuro technological invention will prove to be a bonanza to patients with ALS (amyotrophic lateral sclerosis) or the ones who are severely disabled. Brain gate is a device that is implanted into the brain. It provides the paralyzed or motor-impaired patients a mode of communication by translating one's thoughts into direct computer control. The device is particularly designed with a resolution to reconnect the brain with the people of the outside world who have lost control of their limbs or other bodily functions due to some mishap. Brain gate is developed from Brain-Computer Interface (BCI) device. The computer interprets the brain activity and creates a communication using decoding software. The capability of the brain to generate certain types of responses such as controlling movements led to the build out of devices and algorithms that can be implemented on a computer that recognizes the activity of brain cells and subsequently moves an artificial device .It is predicted that people who will use the Brain Gate System will enroll a personal computer as the gateway to a wide range of self directed activities. These activities may include the control of objects such as doors, television and lights that is beyond the scope of classic computer functions.

SP03-Frequency Distribution of English Numerals with Different Font Styles

Chandana K K, Cyana D' sa, Meghana N Swamy, Navya K

Department Of Computer Science And Engineering

GSSS Institute of Engineering and Technology for Women, Mysuru – 570016.

ABSTRACT: In this paper we are implementing the algorithm for finding the ratio of the area of background rectangle to the area of pixels for English numerals. And also we have to show the ratio is constant for those numerals with different font size by practical implementation. This implementation is carried out using MATLAB software. Here we are also analysing the time complexity of the algorithm.

Keywords : Image, Pixel, Horizontal projection, Vertical projection.

SP18- Build a Client Server Architecture for Centralized Lab setup for Institute

Shilpa M, Simranpal R, Sindhu

Manju Prasad. B , Assistant Professor

CSE Department, GSSS Institute of Engineering and Technology for Women, Mysuru – 570016.

ABSTRACT: In recent trends system need to interface to the distant devices is one of the significant task for supervising the distributed systems. The mode and opportunity of the internet enables the uncomplicated designing of distributed systems. People often presume that the communication over the internet is just as firm as traditional forms of personal communication. Unfortunately there are many security problems in distributed systems and also there are many approaches to transmission security architecture in which a set of workstations access a file server over a local area network are considered. In this proposed work a secure centralized lab set has been proposed using SSH as secure protocol. This implementation will reduce the total lab setup cost for the institute by making efficient resource sharing.

Keywords: Inter-process communication (IPC), secure shell protocol (SSH) or secure shell login(SSL), access policy or permission, client-server system.

SP-19- Microservice for Healthcare Ecosystem

Ranjitha.R, Shambhavi K.M, Sharanya Prakash, Supritha K.G

Manju Prasad B, Assistant Professor

CSE Department, GSSS Institute of Engineering and Technology for Women, Mysuru – 570016.

ABSTRACT: Information is very much important in our daily life. Large amount of digital information is being created every moment by individuals and corporate consumers of IT. This information needs to be protected, managed and optimized. As health is the most primary thing for an individual to take care of, digitizing healthcare has improved the ability of self-management of health. This causes Healthcare delivery systems and consumers to be engaged in a persistent tug-of-war between competing priorities. The healthcare industries need to incorporate new technologies and meet the consumer needs in order to survive in this competitive world. One of the innovative In this paper, we are proposing the use of microservice architecture to provide services for IoT-MD devices. This makes services to be more cost-effective and offers much better performance. Ideas to accomplish are to use microservice architecture.

Keywords: Digitizing healthcare, Microservice architecture, Monolithic, Container virtualization, VSAN, IoT.

SP-17- Friendbook: A Semantic Based Friend Recommendation System for Social Networks

Namratha D, Suhasini S, Sushma P Krishnan

Department of Information Science and Engineering,

GSSS Institute of Engineering and Technology for Women, Mysuru – 570016.

ABSTRACT: Existing social networking services recommend friends to users based on their social graphs, which may not be the most appropriate to reflect a user's preferences on friend selection in real life. We present Friendbook, a novel semantic-based friend recommendation system, which recommends friends to users based on their life styles instead of social graphs. By taking advantage of sensor-rich smartphones, Friendbook discovers life styles of users from user-centric sensor data, measures the similarity of life styles between users, and recommends friends to users if their life styles have high similarity. We record a user's daily life as life activities, from which his/her life styles are extracted and further get stored in the cloud. We further propose a similarity metric to measure the similarity of life styles between users, and calculate users' impact in terms of life styles. When entering the friend recommendation system, Friendbook returns a list of people with highest recommendation scores to the query user. Finally, Friendbook integrates a feedback mechanism to further improve the recommendation accuracy.

Paper Presentation Session:2

SP29- Apparel Online Shop Reflecting Customer Perception

Jayashree A, Kavana C M

Janaki K, Associate Professor

Raja Rajeshwari College of Engineering, Bengaluru - 560074

ABSTRACT: Internet trade volumes are rapidly increasing. In this situation, it is becoming increasingly important for online shops owners to have a competitive advantage in their e-commerce shopping services. In this paper, we discuss how such tools as color theory and fuzzy set theory can be applied to e-commerce-oriented image retrieval, more specifically, to online apparel coordination based on customer preference. We also provide the detailed description of the system functionality. Developed web application allows to overcome the limitations of the traditional e-commerce search and gain an edge over the rivals. The prototype system offers the simple, human-consistent and user-friendly interaction. It can have a good practical value for any online clothing or accessories store.

SP-14- Image Processing based Degraded Camera Captured Document Enhancement for Improved OCR Accuracy

Pavithra.R, Pavithra.K.M, Nandini C.R.

Janaki. K, Associate Professor

Raja Rajeshwari College of Engineering, Bengaluru - 560074

ABSTRACT: Over the past decade the document analysis and processing related to camera based document images has gained the interest of research community. Nowadays, cameras are easily available in the smart phones that can be carried in the small space of our pockets while being lightweight, portable and relieving us from the burden of walking down to a scanner for a digital copy of a document. But even though capturing a document image through a phone camera appears simple, the chances of obtaining a perfect picture are scanty. As when the picture is captured in an unconstrained environment, there are chances of degradation to creep in that will hamper the visual quality of the document image which further effect the readability(in terms of OCR accuracy). Low quality documents give poor results. Document images contain various degradations such as uneven illumination, blur, perspective distortion, low resolution, smear etc. Quality enhancement is helpful to recognize a camera captured document more accurately and if not completely removing the degradations, it can be used for suppressing them and making the text more readable. This paper evaluates the performance of various de-blurring techniques for noisy and blurred camera captured documents.

Keywords: Camera captured documents; document image processing; OCR accuracy; quality enhancement

Poster Presentation Session:A

POSTER : PP08 – Survey on Continuous and Transparent User Identity Verification for Secure Internet Services

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ABSTRACT: Security of the web based services is become serious concern now a days. Secure user authentication is very important and fundamental in most of the systems. User authentication systems are traditionally based on pairs of username and password and verify the identity of the user only at login phase. No checks are performed during working sessions, which are terminated by an explicit logout or expire after an idle activity period of the user. Emerging biometric solutions provides substituting username and password with biometric data during session establishment, but in such an approach still a single shot verification is less sufficient, and the identity of a user is considered permanent during the entire session. A basic solution is to use very short session timeouts and periodically request the user to input his credentials over and over, but this is not a definitive solution and heavily penalizes the service usability and ultimately the satisfaction of users. This paper explores promising alternatives offered by applying biometrics in the management of sessions. A secure protocol is defined for perpetual authentication through continuous user verification. Finally, the use of biometric authentication allows credentials to be acquired transparently i.e. without explicitly notifying the user or requiring his interaction, which is essential to guarantee better service usability.

Keywords: Security, Web Servers, Mobile Environments, Authentication.

POSTER : PP09 – Underwater Image Enhancement using Single Scale Retinex on a Reconfigurable Hardware

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ABSTRACT: In this paper, using single scale retinex algorithm hardware implementation of an improved image enhancement technique is proposed. Considering the real scene, contrast correction is required to reproduce the information since the dynamic range of digital camera is narrower in darker regions. In the proposed method, an input RGB color image is transformed to YCbCr color space, and Y and Cr component is modified as the variations in blue components are nominal. The Gaussian surround function is convolved to it and then the difference between scaled version of Cr and component and the convolved one is added to the original one in enhancing Y and Cr component. The algorithm is implemented in FPGA board. FPGA platform is preferred as it's ability to perform parallel algorithm due to it's inherent parallelism.

Index Term: Retinex, Image Enhancement, FPGA, YCbCr

Paper Presentation Session:3

SP01- Sentimental Analysis for Twitter data

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ABSTRACT: Sentiment analysis deals with identifying & classifying opinions (sentiments) expressed in source text. Social media is generating a very great extent amount of sentiment wealthy data in the form of tweets, status updates, blog posts, users etc. Sentiment analysis of the user generated data is useful in knowing the opinion of the people. Twitter sentiment analysis is hard when compared to general sentiment analysis because of the presence of slang words and misspellings. The max limit of characters that are allowed is 140. Knowledge approach and Machine learning method are the two strategies used for analysis of sentiments from the text. In this paper, we try to analyze the twitter posts. By doing sentiment analysis we determine the effect of information in sentiment classification.

Keywords: sentiments, tweepy, stream, datalist.

SP09 – METAPHRASE: Mobile Application for Language Translation

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ABSTRACT: We are living in an age of translation and the avenues for translators are constantly expanding. Translation also plays a role in extending the scope of a language and reframing the boundaries of the speaker. One can even add without exaggeration that a country like India with 22 languages would not have been a nation without translation and we keep translating almost unconsciously when we converse with people who use a language different from ours. But in real time, we happen to encounter situations wherein the physical presence of an explicit translator is expected in order to communicate with our fellow beings. It is in this context the new automated technology comes in handy as it is capable of translating one language to another with minimum delay and cost. The proposed system, "Metaphrase" is a user friendly Android-platform based speech translation application which records speech in one language, translates it and produces speech output in another language. These tools eradicate the need for physical translator and deracinate the language barriers.

SP10 – Textual Information Retrieval using Inverted Index

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ABSTRACT: *Information Retrieval (IR) is the field that deals with retrieval of un organised data, such as textual documents, responses to a query entered by the user in the unstructured or structured form. With technological advancement, there is an increasing need for effective techniques of IR. It has become possible to store large amounts of information and therefore, finding relevant information from such collections has become a necessity. This paper talks about the different processing techniques for implementing information retrieval and why some techniques are more efficient than others. This paper also includes a brief description of how natural language processing has made the process of information retrieval very convenient.*

Keywords—*Information retrieval; Information Retrieval System(IRS); query; Natural Language Processing(NLP); term document matrix; indexing inverted index; posting list; 0/1 vectors; stemming; stopwords; chunking; compound words*

SP04 - Suraksha: Digital Transformation to Indian Police Services

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ABSTRACT: *With the vision of Digital India programme to transform India into a digitally empowered society with safety of every individual is of highest priority in modern India. This project proposal will be contributing to the information and Communication Technology(ICT) which focuses on enabling effective communication between the citizen ant the police. To increase transparency of Indian Police Services and to boost the public confidence rating, a mobile app that has all-in-one solution to enable secure realtime operational system will be developed as a part of the project proposal. This project proposal enables common man of India to get connected with the police system anytime, anywhere in India with various modules which includes Criminal booking module, Case management module, Forensic module, Investigation module and Traffic monitoring module with accident rescue operations.*

Keywords – *Suraksha, IPS, Mobile APP, Digital Transformation, Police, User/Citizen*

SP06 - Near Field Communications [NFC] Ordering System

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ABSTRACT: *This paper proposes a Near Field Communication (NFC) based ordering system in restaurants. Near Field Communication (NFC) is one of the latest technologies in radio communications and being a subset of RFID technology, it is growing at an enormous pace. NFC technology provides the fastest way to communicate between two devices and it happens within a fraction of a second. It has several applications in Mobile Communications and transactions. An NFC supported ordering system in restaurants is discussed as one potential use of this technology. Customers who visit restaurants usually they will have to wait for being serviced by a waiter, one of the solutions for this is to enable the customer to order his food directly from his table without the need of a waiter by using near field communications technology.*

Keywords : *NFC; NFC enabled devices; Database; NFC Tags, NFC Contactless Cards*

SP07 - Implementing Home Security for the Visually Impaired Using RASPBERRY PI

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ABSTRACT: As the Chinese proverb says “Give a man a fish and you feed him for a day. Teach a man to fish and you feed him for a lifetime.” Being self-sufficient and independent are the main factors required for our well-being. The model discussed in this paper relates the same aspect in the visually impaired. The visually impaired cannot recognize people based on sight. This makes them dependent on others. The model proposed in this paper aids the visually impaired to make an informed and independent choice before letting people into their homes. The device allows the user to filter the people who are given access to their homes by alerting the user of the ‘unknown’ or ‘known’ status of the visitor hence maintain their security. After all, home is our haven. We implement the techniques of video stitching along with face recognition using OpenCV and Raspberry Pi Algorithms which solve the problem of video stitching and face recognition in real time and in addition provide quick and accurate results are selected. The system detects the faces present in the field of view of the cameras and recognizes them if they are present in the database. If the face is not recognized, then an emergency contact is notified to confirm the identity of the unknown visitor. An appropriate audio file is then sent to the user assisting him to make an educated decision.

SP31 - E-Forms for Banking System

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ABSTRACT: India is rapidly transforming into a digital country. Digitalization is found in all the sectors like agriculture, industry, mining, tourism, banking and finance, biotechnology and etc. Digital India programme is a big step taken by the government of India to make this country a digitally empowered country. The aim of launching this campaign is to provide Indian citizens electronic government services by reducing the paperwork. It is very effective and efficient technique which will save time and man power to a great extent. Various schemes regarding this plan have been unveiled such as Digital Locker, e-health, e-eduction, national scholarship portal, e-sign, etc. One such scheme is our E-Forms, in our project the challans for deposit transaction are filled online in our software and a unique QR Code for the e-form is generated which is scanned at the banks.

Keywords: E-Form, Challan, QR code, QR code scanner, Database.

Paper Presentation Session:4

SP11 - INTERNET OF THINGS

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ABSTRACT: Internet, a revolutionary invention is always transforming into some new kind of hardware making it unavoidable for anyone. The form of communication that we see now is either human-human or human-device, but the internet of things (IOT) promises a great future for the internet of where the communication is machine to machine(M2M). This paper aims to provide a comprehensive overview of the IOT scenario and review its enabling technologies and the sensor networks. Also, it describes a six-layered architecture of IOT and points out the related key challenges

Keywords : Internet of things, RFID, WSN IOT, architecture, IOT vision, IOT application, IOT security

SP24- Attack And Defence Strategies In Android Using MSFvenom In Metasploit Framework Over Wide Area Network

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ABSTRACT: Now a days android security is becoming a very challenging task to carry out as the attackers have come up with smart and intelligent attacks. This paper describes the ways of attacking the android device by exploiting the vulnerabilities and defensive strategies to overcome them. More specifically, I perform penetration tests using MSFvenom which is present in Metasploit Framework. I primarily use the tools which are present in Kali Linux. I predominately perform android hacking using MSFvenom. The results are then summarized and discussed. The paper also outlined the detailed steps and methods while conducting these attacks.

Keywords- Metasploit framework; penetration testing; Kali Linux; defence strategies; MSFvenom

SP25- Cloud Assisted Video Recommendation System

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ABSTRACT: With the rapid growth in multimedia services and the enormous offers of video contents in online social networks, users have difficulty in obtaining their interests. Therefore, various personalized recommendation systems have been proposed. However, they ignore that the accelerated proliferation of social media data has led to the big data era, which has greatly impeded the process of video recommendation. In addition, none of them has considered both the privacy of users' contexts(e.g., social status, ages and hobbies) and video service vendors' repositories, which are extremely sensitive and of significant commercial value. To handle the problems, we propose a cloud-assisted differentially private video recommendation system based on distributed online learning. In our framework, service vendors are modeled as distributed cooperative learners, recommending videos according to user's context, while simultaneously adapting the video-selection strategy based on user-click feedback to maximize total user clicks (reward). Considering the sparsity and heterogeneity of big social media data, we also propose a novel geometric differentially private model, which can greatly reduce the performance (recommendation accuracy) loss. Our simulation shows the proposed algorithms outperform other existing methods and keep a delicate balance between computing accuracy and privacy preserving level.

Index Terms: Online social networks, multimedia big data, video recommendation, distributed online learning, differential privacy, media cloud.

SP26- A Survey On Graphical Password Authentication Methods

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ABSTRACT: Password authentication is majorly used in applications for computer security and privacy. However, human actions such as selecting bad passwords and inputting passwords in an insecure way is considered as "the weakest link" in the authentication process. Rather than arbitrary alphanumeric string, users generally use weak password, more often based on their personal information. With new technologies coming up and mobile apps piling up, users can use the application anytime and anywhere with various devices. Although the evolution is convenient but it also increases the probability of exposing passwords to shoulder surfing attacks. Attackers can observe directly or use external recording devices to collect users' credentials. To overcome this problem, a novel authentication system PassMatrix, based on graphical passwords is proposed to resist shoulder surfing attacks. With a one-time code and circulative horizontal and vertical bars covering the entire scope of pass-images, PassMatrix will offer no hint to attackers to figure out or narrow down the password even they conduct multiple camera-based attacks. We will implement a PassMatrix prototype and from the experimental result, the proposed system will achieve better resistance to shoulder surfing attacks while maintaining usability

Index Terms: Graphical Passwords, Authentication, Shoulder Surfing Attack

SP27- Survey on Efficient Accessing of Small Files in HDFS:TLB-MapFile

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ABSTRACT: The Hadoop Distributed File System (HDFS) is designed to store very large datasets reliably, and to stream those datasets at high bandwidth to user applications. It is designed to handle large files which are normally in the range of gigabytes to terabytes. High throughput access is acquired using HDFS . In HDFS, a small file is the one which is smaller than 64MB which is the default block size of HDFS. Hadoop performance is better with the small number of large files, as opposed to a huge number of small files. To reduce the processing time and memory required to handle a large set of small files, an efficient solution is needed which will make HDFS work better for large data of small files. This solution should combine many small files into a large file and treat these large files as an individual file.

Keywords: Hadoop distributed file system, Hadoop, small files, file correlation, prefetching

SP28- Privacy Preserving Multi-Keyword Rank Search Over Encrypted Data

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ABSTRACT: In Cloud Computing Era, search over encrypted data is a technique of great interest because many believe that sensitive data has to be encrypted before outsourcing to the cloud servers in order to ensure user data privacy. An efficient and secure search scheme over encrypted data involves techniques from multiple domains – information retrieval for index representation, algorithms for search efficiency and proper design of cryptographic protocols to ensure the security and privacy of the overall system. This paper provides basic introduction to the problem definition, system model and mechanisms for implementing privacy-preserving keyword search over encrypted data.

Keywords- Encrypted Data, Ranked Search, Build Tree Index, Cloud Server.

SP08 – A Survey On Deblurring The Blurred Image

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ABSTRACT: Image blur is general artifacts in digital image processing and it is hard to avoid. Image enhancement or deblurring is necessary to reduce blur amount from the image. Image deblurring is a process used to reduce the blur quantity in a blurred image and make the degraded image into sharpened and clear image. When deblurring images, it is important to know the causes of blurring. There are various reasons why image gets blurred like motion blur, camera shake, out of focus blur, etc. This paper carried out performance comparison of different techniques to diminish the effects of above mentioned causes of blurring. The analysis and comparison was conducted based on types of blur, Point Spread Function, Wiener Filtering etc.

Keywords: Image deblur, Point Spread Function (PSF), Wiener Filtering, Lucy-Richardson algorithm, Regularized Filtering

Paper Presentation Session:5

SP15- Sixth sense: Techno coming to life

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ABSTRACT: This paper is about the outrageous sixth sensetechnology, which is the beginning of a new era of technology where engineering will reach new milestones with a blend of many exquisite technologies. The thing which makes it magnificent is the marvellous integration of all those technologies and presents it into a single portable and economic product. Sixth sense technology has assimilated the existent world objects with digital world. The reason for this development is to compel the technology to adapt people's environment. The appeal for this fact-finding is to explore and study about the enactment of this technique in Mouseless-the word which explains itself, Sparsh – transfer clipping of data through touch, Quickies the intelligent sticky notes. Cloud computing used by sparsh is the practice of using a network of remote servers hosted on the Internet to manage, and process data rather than computer hardware.

Keywords: Sixth sense technology, Sparsh, Mouseless, Quickies, Cloud

SP-16- Comparative Study of Network Simulator-3 and Network Simulator-2

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ABSTRACT: Network simulation is one of the most powerful evaluation methodologies in the area of computer networks. While simulation is not the only tool used for data networking research, it is extremely useful because it often allow research questions and prototypes to be explored at relatively lesser cost and time than that required to experiment with real implementation and networks. The network simulator allow one to model an arbitrary computer network by specifying both the behavior of the network nodes and the communication channels. It provides virtual environment for an assortment of desirable features such as modeling a network based on a specific criteria and analyzing its performance under different scenarios. The newly proposed network simulator NS-3 supports coupling, inter operability, good memory management, debugging of split language objects, coding in C++ and object oriented concepts, as well as supports models supported by NS-2 and most suitable for wireless networks. The primary purpose of this paper is to review the new simulator, as well as find its advantages in the field of research and how it is different from others mainly NS2.

SP13 - A Survey on Web Application Supporting Vehicle Toll Payment System

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ABSTRACT: The requirements for new web applications supporting different types of devices and purposes are continuously growing. The main advantages of web application development as well as popular development features covering integration with different technologies are considered initially in this paper. Integration and possibilities of application of Centralized web in real scenarios with different embedded Internet of Things (IoT) devices are considered and described in this paper. The design and implementation of a centralized web application supporting vehicle toll payment system using IoT device is presented and described. The development frameworks as well as featured and popular technologies used to realize a vehicle toll payment by IoT device are described. The concept of NFC card emulation using Android application is also described. Processing, monitoring and control in the centralized web application of such payments using IoT devices are described and presented.

Keywords: Centralized Systems, Web application design, Internet of Things concept(IoT), vehicle toll payment, Android, Near Field Communication(NFC)

SP20- Implementation of Location based Services in Android using GPS –FriendFinder Android app

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Harish.K, Assistant Professor

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ABSTRACT: In today's scenario of metropolitan cities it is very difficult to stay in contact with friends or informing parent's whereabouts. The idea was to make an application for mobile devices that would make it easier for the user to stay in touch with friends. The application is able to gather information of the phone's GPS locations from the phone and present the information in a simple and convenient way. Since today is an era of android, so taking that under consideration we aim at developing an android app which can be used easily by peoples and Android provides a software development kit with necessary tools and documentation for developing applications with the Java programming language. The Application is designed to facilitate the user to search contacts on the map and store them in a database in a better organized way. Location based Services offer many advantages to the mobile users to retrieve the information about their current location and process that data to get more useful information near to their location. With the help of a-GPS in phones and using GPRS, Location based Services can be implemented on Android based smart phones to provide these value-added services: advising clients of current traffic conditions, providing routing information, helping them find nearby friends and family members. In this paper, we propose the implementation of Location based services through Google Web Services and Walk Score Transit APIs on Android Phones to give multiple services to the user based on their Location.

Keywords - Android Mobile Operating System, Location Based Services, A-GPS

SP30 – A Survey on Fog Computing

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ABSTRACT: Fog computing which also known as Fog Networking or edge computing is the advanced version of cloud computing. The term is created by Cisco which means that rather than hosting and working from a centralized cloud, fog systems operate on network ends. Since many enterprises adopt Internet of Things, the large amount of data are to be accessed more quickly. This is where the "Fog Computing" plays a major role. Fog computing has a decentralized architectural pattern that brings computing resources and application services closer to the edge. This paper discusses the definition of fog computing and how Fog Computing can be used to process the data within a shorter response times. This paper also highlights how fog computing brings the benefits of cloud computing closer to where the data is being generated and acted upon, its role in IoT and the use cases of Fog Computing.

SP22- Mitigating the Risk of Customer Churn

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ABSTRACT: As market competition is increasing in today's world, customer churn management is becoming an important means of competitive advantage for companies. However, when dealing with big data in the industry, existing churn prediction models cannot work very well. In addition, decision makers are always faced with inaccurate operation management. In response to these difficulties, a new clustering algorithm called semantic-driven subtractive clustering method (SDSCM) is proposed. Experimental results indicate that SDSCM has stronger clustering semantic strength than subtractive clustering method (SCM) and fuzzy c-means (FCM). Then, a parallel SDSCM algorithm is implemented through a Hadoop MapReduce framework. In the case study, the proposed parallel SDSCM algorithm is faster when compared to other methods. Furthermore, we provide some marketing strategies in accordance with the clustering results and a simplified marketing activity is simulated to ensure profit maximization.

Index Terms: Axiomatic fuzzy sets (AFSs), mapreduce, semantic-driven subtractive clustering method (SDSCM), subtractive-clustering-method(SCM). Component-formatting; style; styling; insert(key words)

SP23 - Autonomous Car on Raspberry Pi using OpenCV

Apoorva Ravi, Avvari Rachana, manasa Gowri J, N Anushree

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ABSTRACT: Tired of driving around in the traffic or getting your vehicle damaged because the driver ahead didn't follow traffic rules? We present to you, in this paper the implementation of a driverless car which is capable of navigating and sensing its environment on Raspberry Pi using OpenCV. It is created with the motive of avoiding accidents as there is no human interaction involved. It reads the symbols and signs, objects and traffic signals it encounters on its path and gives the best possible outcome.

SP32 - Memory Efficiency in CCTV Surveillance Systems by Removing Data Redundancy

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ABSTRACT: Safety and security play a vital role in the present era. Traditional CCTV surveillance systems trade on the memory and power consumption to maintain a record of video.[1] This is done even if there is no object in coverage area. This introduces a lot of redundancy in the footage. Doing so leads to a reduced clarity of the footage. With reduced clarity, the need of the CCTV is not served to the fullest. Using advanced methods discussed in the paper we can resolve the problems stated above. A specific data structure has been designed to serve the need for memory efficiency. The data structure shall also take into consideration the continuity of the video. An additional hardware component (PIR Sensor) is also introduced to provide fast switching between on and standby mode of the camera.

Keywords: Surveillance; redundancy; footage; data structure; continuity;

Poster Presentation Session:B

POSTER : PP01 - Smart Highway Using Arduino

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ABSTRACT: Conventional Highway lighting systems in areas with a low frequency of passer-by are online most of the night without purpose. The consequence is that a large amount of power is wasted meaninglessly. With the broad availability of flexible-lighting technology like LED and various sensors, the power conserving highway lighting systems becomes reality. The purpose of this work is to describe a smart highway which has smart highway lighting and a LCD screen to display an appropriate message for the passer-by (if any). Today's world is moving towards the technology to save the energy and increase safety of human life. This smart highway consists of an Inductive Proximity sensor which detects the weight of car and controls the switching ON and OFF of the street light. It also consists of the Rain sensor which detects wetness of the road, gives appropriate message on the LCD screen and has light dependent resistor (LDR) which detect amount of light present in surrounding and prevent the system to switch ON the lights during day time. The traffic of the road is also displayed on the LCD screen. The data is uploaded on a server using the ESP8266 Wi-Fi module and fetched to an android application monitored by a system administrator. This system thus saves the electricity.

Keywords: Sensors, Arduino, Smart Highway, Smart Highway Lighting, Light Dependent Resistors, Inductive Proximity Sensor, Rain Sensor, Wi-Fi module-ESP8266, Android Application.

POSTER : PP02-Face Recognition System – Challenges and its Possible Solutions

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ABSTRACT: Face recognition system has evolved to be one of the efficient and reliable technologies in today's era. Face recognition technology is an application software capable of identifying or verifying a person from digital image or a video frame from a video source. This paper gives an overview of back propagation neural network (BPNN), which is the basis of face recognition technology. The learning process of neurons is used to train input face images from training database with number of iteration to minimize error of recognizing faces. One of the method called nearest feature line(NFL) method for implementation of face recognition system has been discussed. This system has seen many contradictory challenges. This paper emphasizes on providing the possible solutions for the issues.

Keywords: Artificial Neural Network (ANN), Neurons, Back propagation Neural Network (BPNN), Nearest Feature Line (NFL), Eigen face, face recognition

POSTER: PP03 –Wireless Communication based Advanced Agricultural Vehicle using Smart Phone-AGRIBOT

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ABSTRACT: This robotic vehicle is an agricultural machine of a considerable power and a great soil clearing capacity. This multi-purpose system gives an advance method to sow, plow, water and cut the crops with minimum man power and labor making it an efficient vehicle. The machine will cultivate the farm by considering particular rows and specific column at fixed distance depending on the crop. Moreover, the vehicle can be controlled through Bluetooth medium using Android smart phone. Remote buttons are developed in the Android app by which various functions associated with the robot are controlled, and in which Bluetooth communication is used to interface controller and Android. Controller can be interfaced to the Bluetooth module through UART protocol. The whole process calculation, processing, monitoring are designed with motors and microcontrollers.

Keywords: Agribot, UART(Universal Asynchronous ReceiverTransmitter), Bluetooth

POSTER : PP04 – Body Area Network and Wireless Personal Area Networking for Healthcare

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ABSTRACT: The paper talks about the monitoring of human health using both wire and wireless devices. It is based on the first principles. The system is capable of measuring vital physical parameters like the heart rate, blood pressure, temperature and humidity. The Body Area Network (BAN) is of a wearable type device and the Wireless Personal Area Networking (WPAN) is a implantable device. If any medical emergency is detected by the device based on the ranges provided in the device, the device sends notification through mobile networking which makes use of the Mobile Base Unit (MBU) to the medical centre with the detected reports, so that the concerned doctors can go through the health history of the patients. Raw data got by the body area network is received by the sensors fabricated on the PCB of the device and then with the actual and essential information got by the pulse oximeter which converts the PPG signals to digital data and the wireless biomedical system makes use of the human-machine interface to get the analysis result. The pulse oximeter detects the information by sensing through the human finger tip and palm. The designed system is capable of providing information to the patients through Bluetooth connection to their smart phones. The results got are of appropriate rate of accuracy required by the medical standards.

POSTER : PP05 –Secure Image Processing on the Cloud

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ABSTRACT: This article introduces the principal concepts of multimedia cloud computing. Nowadays, offloading storage and processing capacity to cloud servers is a growing trend. In this paper, we sketch the idea of expanding the cloud file sharing capabilities, it may be for storing images or to perform encryption and also about an environment to support containerized user defined applications running remotely inside the cloud storage. The problem with cloud-based solutions is that servers are highly accessible through the Internet and therefore considerably exposed to hackers and Malware. The increase of the cloud file sharing storage as infrastructure for serving large amounts of images over the internet inspires new data analytics paradigms.

In this paper, we design and implement Darkroom, a secure image processing service for the cloud. We evaluate our system and observe that our solution adds a small overhead to image processing when compared to computer platforms that require the entire operating and furthermore detailed simulations have been carried out to test the encryption service on cloud file sharing environment system to be trusted.

Keywords: Image Encryption, Cloud Computing, Trust-Zone, Dual Encryption, Decryption.

POSTER : PP07- Healing Phobias using Augmented Reality

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ABSTRACT: Technology is constantly changing and becoming more advanced. Looking into the future, technology will evolve into something truly unbelievable. Use of technology has been very serendipitous in the field of psychology. In the treatment of psychological disorders, augmented reality has given precursory manifestation to be a useful tool due to its adaptability to the patient needs and therapeutic intent and interactivity. Another pertinent aspect is the quality of the user's acquaintance in the augmented reality system determined from emotional engagement and sense of presence. This experience could increase the Augmented Reality ecological validity in the treatment of phobias. This paper elucidates the use of Augmented Reality in the evaluation and treatment of psychological disorders, focusing on phobias: Claustrophobia- fear of having no escape, Acrophobia- fear of heights and phobia of small insects (Katsaridaphobia-cockroaches and Arachnophobia-spiders) with the help of this technology.

Keywords: Augmented Reality, AR, Phobias, Claustrophobia, Acrophobia, Katsaridaphobia, Arachnophobia, HMD, FAS, SUDS.

POSTER : PP06- Major Advancements in 3D Printing Technology and Its Biomedical Applications

BhavyaShree M N, Sowmya R
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ABSTRACT: Medical applications for 3D printing are expanding rapidly and are expected to revolutionize health care. Medical uses for 3D printing, both actual and potential, can be organized into several broad categories, including: tissue and organ fabrication; creation of customized prosthetics, implants, and anatomical models; and pharmaceutical research regarding drug dosage forms, delivery, and discovery. The application of 3D printing in medicine can provide many benefits, including: the customization and personalization of medical products, drugs, and equipment; cost-effectiveness; increased productivity; the democratization of design and manufacturing; and enhanced collaboration. However, it should be cautioned that despite recent significant and exciting medical advances involving 3D printing, notable scientific and regulatory challenges remain and the most transformative applications for this technology will need time to evolve.

POSTER : PP10 - Blue Eyes Technology

Akshata V Khandke, Asha, Namratha N R, Prof Kameshwari
SJB Institute of Technology, Bengaluru – 560060.

ABSTRACT: 21st century is an era of speed and smartness, but due to this several problems has been evolved one of them is that emotional quotient getting overshadowed. In this paper, BLUE EYES TECHNOLOGY aims allow people to interact with computers in a more natural manner. In this technology BLUE stands for Bluetooth, which enables reliable wireless communication and EYES related to the movement of the eye that enables us to see lot of interesting and important information. Its objective at creating computational machines that have perceptual and sensory ability. In this technology actions and emotions can be identified using camcorder. The technologies used for this are Manual and Gaze Input Cascaded, Artificial Intelligent Speech Recognition, Simple User Interest Tracker, the eye movement sensor. Its main applications are Automobile industry, Video games, Medical diagnosis, and Lie-detector tests. It is an emerging technology and in future it is expected to reduce the gap between electronic and physical world.

*****XXXXXXXXXXXXXXXXXXXXXXXXXXXX*****

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