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TODAY A READER , TOMORROW A LEADER

NOVEMBER 2015

IT DEPARTMENT HALFYEARLY MAGAZINE

"INFORMATION TECHNOLOGY AND BUSINESS ARE BECOMING INEXTICALLY INTERWOVEN. I DON'T THINK ANYBODY CAN TALK MEANINGFULLY ABOUT ONE WITHOUT TALKING ABOUT THE OTHER"

—-BILL GATES

This issue highlights the skill and creativity of the young and energetic information technologists . The poems, photos and articles portray inventiveness, originality, imagination and ingenuity. Identity aims to invoke the hidden endowment and carve your own identity in the society .

WHY PUBLISH AN E-NEWSLETTER?

An e-newsletter that is published in electronic format and distributed via email is an extremely valuable tool of this age, as it:

- Provides a means for direct communication with our students and for contacting prospects.
- Facilitates dialogue with and feed-back from students.
- Strengthens the relationship with students!

One of the most important successes of a quality e-newsletter is to maintain its periodicity! Here comes this month issue!

Enjoy Reading!

STUDENT PROJECTS-INTERNAL FUNDING

The following student projects have been chosen for their innovative idea and funded by the SSN trust for the year 2015-2016.

Student Name	Faculty Incharge	Project name
III Years		
Aditya Mangal Aishwarya. K. Akshara .V.	Dr. N. Bhalaji Mr. K. Kabilan	Effective irrigation management using cyber physical systems
B. Archana S. Harine V. S. Kiruthika	Mr. V. Thanikachalam	Posture Analysis system—An aid to study fit in sedentary lifestyle
T. M. Venkatesh L. Pragalbha N. V. Vishnuvarthan S. Srinivasan	Dr. S. Chitra Dr. N. Bhalaji	Smart wastes monitoring and management system
Arun .B Ashok Madhavan .R.	Ms. S. Sasirekha	Location based generic cloud service
Nilofar Parveen A. Sophia Josephine	Dr. G. Muneeswari	Smart head phones using Electro Encephalogram Graph (EEG) Sensor.
G. Krishna G. Gautham Krishna	Dr. N. Bhalaji	Neurocinematics-The cognitive and emotional responses to movies
A. Prakash M. Satish T. Srisai Bhargav	Dr. T. Sree Sharmila Ms. J. Sofia Jenifer	Drowsy driving detection system.
S. Vharshinee S. Sownthiriya	Dr. G. Muneeswari	Bus entry/exit and capacity notification system using RFID and PIR sensors

| R. Mohan Raheja L. Kishore | Mr. I. Joe Louis Paul | Physiological analysis by brain wave monitoring |
| N. R. S. Sutharsanan Vidhyaa .V | Dr. A. Shahina | A device converting speaker's speech into listeners handwriting. |

IV Years

M. Noor jagan Vaishali Sarathy	Dr. R. Srinivasan	Eye magic; computer interaction using eye gaze and blink
M. H. Faritha Nasreen A. Arul dhana saam Prakash R. Aparrnaa	Ms. S. Poornima	Design and implementation of a multimodal biometric system for attendance monitoring.
Y. Gokul P. Kirthana	Ms. S. Sasirekha Mr. I. Joe Louis Paul	Smart Helmet with emergency notifying system
R. Pavithra G. Prabhu	Dr. R. Srinivasan	Air writing: Translating finger movement to text for the visually impaired.
S. Rengarajan S. A. Packiakumar	Dr. T. Sree Shermala Dr. R. Srinivasan	Smart traffic signalling system
P. S. Revanth D. S. Navin kumar	Mr. I. Joe Louis Paul Ms. S. Sasirekha	Wireless mobile charger.

CONVERITA 2K15

That Converita 2k15 was a huge success is an understatement – Despite a national level strike on September 2nd, our symposium saw a huge registration count of 6220. Mr. Pichappan Pethachi, Executive Director- Cross Industry Sales Asia Pacific and Global Digital Customer Engagement, Concentrix, SYNNEX was our esteemed Chief guest. He inspired the gathering with his wise words during the inaugural after which Converita took off to a full-fledged start.

The On-day workshop on Ethical Hacking and Information Security attracted a lot of people and each of the events saw enthusiastic participation with the registration count going up to 400-450 for most of the events.

One fourth of the bones in your body are in your feet.

Each of the events in our symposium tested the technical strengths of the participants like Math, Coding, Design, Debugging , etc. The winners of all these events battled it out in a high octane clash for the title of 'Star of Converita' - the winners and runners of which were awarded with a Mega cash prize. At the end of the day, all the members of the Association of Information Technologists (AIT) were happy to see the fruits of months of their hard work in the happy, inspired faces of all the participants of Converita. There is no doubt that the forthcoming versions of Converita would only keep getting bigger and better. As far as the Mega Event is concerned, it is the event that decides the king of kings. The winners from all the nine technical events clashed against one another in a single arena. The stage was all set for four most talented guys from the lot of nine. However the competition was more intense as we were forced to increase the count to five. With the crowd cheering for their favorites, the quizzing started with the five teams on the main stage. After 20 minutes of quizzing and a final mega question worth 15 points, Dileep and Nandhu from CEG were crowned the STARS OF CONVERITA.

The present population is expected to rise to 1500 crores by 2080.

THE ORIENTATION PROGRAM

A day long orientation cum interaction program is being held every year in the department to welcome the second years into the department of Information Technology.

The program is aimed to make the budding Information Technologists understand the importance of technology. The students get introduced to the faculty of the IT department and understand the vision and mission of the department.

The faculty impart sound knowledge of IT domain to the students, nurture students to contribute to dynamic industrial needs, with the knowledge in the emerging areas of IT and promote sustained research to build information systems for the benefit of society.

The fortnightly held research seminars by faculty members on their respective areas of research is briefed to the students. The students are also elicited about the various research groups and the associated faculty members. The students are also made aware of the opportunities and career options available which is an eye opener.

Ambition is the path to success.

Persistence is the vehicle you arrive in

JOURNEY OF THE FORMER PRESIDENT -Dr. A. P. J. ABDUL KALAM

Dr. Kalam was born in Rameswaram in Tamil Nadu on October 15, 1931, to a humble boat owner. A determined soul since childhood, he started working at an early age to contribute to the family income. He was brought up in a multi-religious, tolerant society; one with a progressive outlook. He overcame all odds and carried on to pursue graduation in physics and later study aerospace engineering on a scholarship.

His first mark for our country was his accomplishments as a Scientist. Late Dr. Kalam joined Aeronautical Development Establishment of Defense Research and Development Organization (DRDO) in 1960.

Nine years later he was transferred to Indian Space Research Organization. Late Dr. Kalam claimed that joining ISRO was one of his biggest achievements in life.

He said he found himself when he started to work on the Satellite Launching Vehicle (SLV) project. Dr. Kalam made significant contribution as Project Director to develop India's first indigenous Satellite Launch Vehicle (SLV-III) which successfully injected the Rohini satellite in the near earth orbit in July 1980 and made India an exclusive member of Space Club. Dr. Kalam took up responsibilities for developing Indigenous Guided Missiles at the DRDO which led to the development of AGNI and PRITHVI missiles.

He also led the Pokhran-II nuclear tests that made India a nuclear weapon country. His remarkable contributions to the space and defense programs of our country would be one of the reasons for the country's success.

In 2002, both the ruling party, Bhartiya Janta Party, and the Opposition Party, Congress came together to elect him as the

Bill Gates house was designed using a Macintosh Computer.

11th President of India. After serving a term of 5 years, he returned to civilian life of education, writing and public service.

A recipient of a number of awards, he topped them all by Bharat Ratna, India's highest civilian honor in 1997. He saw a dream for our country known as Vision 2020. He wanted to see our nation standing amongst the developed countries of the world. The only real tribute to him would be when we manage to achieve that goal as a united country. "A dream is not that which you see while sleeping, it is something that does not let you sleep," as he famously said.

Dr. Kalam was a man of impeccable character, indomitable spirit, profound knowledge and firm conviction. His death is an irreparable loss to this nation.

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Great dreams of great dreamers are always transcended.

"SUFFERING IS THE ESSENCE

"DREAM! DREAM! DREAM TRANFORMS INTO THOUGHTS AND THOUGHTS RESULTS IN ACTION!!"

"YOUR BEST TEACHER IS YOUR LAST MISTAKE"

On an average work day, a typist 's fingers travel about 12.6m.

DANCE—A PANACEA

Dancing can be a most enjoyable form of exercise. But, what most people don't know is that it also has a large number of health benefits. Dancing is a great mind and body workout. It can make your body and soul feel good in a way that no other exercise can. The benefits of dancing are like no other. It can help you lose weight, strengthen and tone your body, increase stamina and flexibility, improve balance and posture, and produce confidence among other things.

For centuries, dance manuals and other writings have lauded the health benefits of dancing, usually as physical exercise. More recently we've seen research on further health benefits of dancing, such as stress reduction and increased serotonin

Most recently we've heard of another benefit:- Frequent dancing apparently makes us smarter.A major study added to the growing evidence that stimulating one's mind by dancing can ward off Alzheimer's disease and other dementia, much as physical exercise can keep the body fit.

Dancing also increases cognitive acuity at all ages.

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"When you dance, your purpose is not to get to a certain place on the floor. It's to enjoy each step along the way."
—Wayne Dyer

You breathe on average about 5 Crores times a year.

THE BOOK

Hola First Years! Being in college do sure is interesting, but when it comes to learning something new, it is always difficult in the beginning. And when we face problems ourselves, seldom do we think about helping others. It is not about what lies ahead of you, but what you want to keep in future. That is what we call the journey of college. Lots of problems and College teaches you how to solve these problems.

The philosophy behind college life is fun, party and growing up. It is all about how you productively make use of these four years. College is not just about the above mentioned three. It also requires gathering immense knowledge to make a stand in your life.

C programming might or might not be familiar to you, but it is a very important part of Engineering. You will feel difficult as the beginning always is. So here you are holding "THE BOOK" which is going to make this journey of knowledge, an easier and comfortable one. C MADE EASY is made only from student's perspective to help you people out and in a better way. Let it be theory or practical, with this, you can be easily figuring your way out of the mess.

Being a Biology student, or a rural student, this book is simple, explained in just simple English, and we hope will help you to grab the concepts more easily, and make your learning process easier. We have three four sections in our book:

- The Theory section
- Basic Program section
- Additional Anna University Program section
- Anna University 2 mark Q/A section+ 16m questions section

It is a crisp, to-the-point, book cum annexure, and is totally for exam preparation guidance. So if you need a good guide, the do look for it in our book. Since we portrayed our book to be your guide, throughout your college life, we are promising to provide you a different book, every semester, for all IT subjects! So grab it, turn the pages, and start exploring the world of Coding!

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Coca-Cola would be green if the food colorant wasn't added.

LOVELY BEAUTY

O lay god ! You sent her down here
Such a lovely beauty, I swear
Her pure scent carrying me away
All through the dark covered way

She lives in blue sky, out mighty high
Around that misty land, flows her smile
Thousands of pearls rolls as she speaks
Which whispers mysterious accent close my ears

Cold swirling air reminds her fragrance
Sweet smelling flowers jealous to gaze
Facing her innocence, lost my mind
In the selfless, mellifluous voice

Passionate play, sets rhythm over eyes
Frozen by her step, faded through time
You're such a lovely beauty! I swear
Fell in love at sight, you delicate rain !

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The average age of gamers in the United States is 35.

This High-Tech Umbrella Contains a Multitude of Advanced Features

Taipei-based company HAZ Digital developed a high-tech umbrella that connects to your Smartphone via Bluetooth. Dubbed "the world's first fully automatic smart umbrella, "this handy device does more than just keep you dry. Unlike traditional umbrellas, the 'HAZ Umbrella' contains a high-capacity lithium-ion battery that allows it to open and close in under two seconds. Beyond its convenient opening and closing features, the high-tech umbrella also features integrated Bluetooth technology that connects directly to your smart phone device.

Through the accompanying app, you will receive weather updates telling you when you need to carry your umbrella. The app will also let you know if you have left your umbrella somewhere, ensuring that you never lose your umbrella again. In an increasingly Internet-connected era, the HAZ Umbrella provides a more convenient and reliable form of rain coverage than traditional umbrellas.

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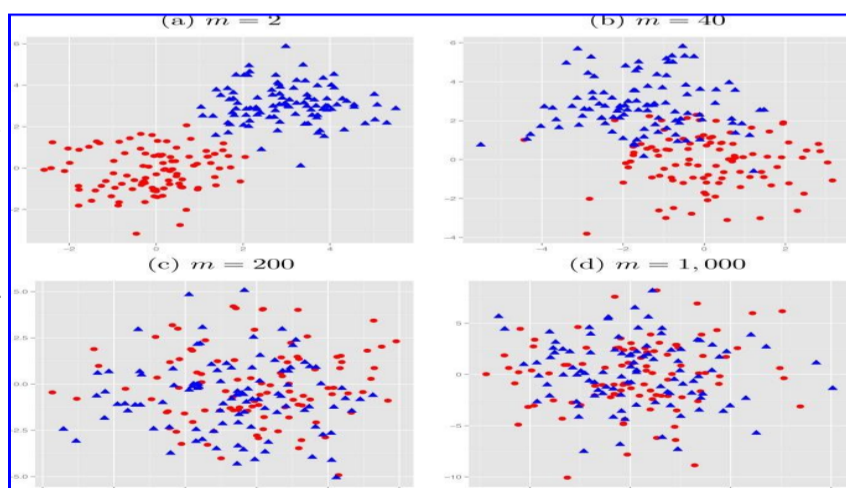**Visakamuralidharan@it.ssn.edu.in**

86% of people try to plug their USB devices upside down

NOISE ACCUMULATION IN BIG DATA

Analyzing Big Data requires us to simultaneously estimate or test many parameters. These estimation errors accumulate when a decision or prediction rule depends on a large number of such parameters. Such a noise accumulation effect is especially severe in high dimensions and may even dominate the true signals. It is usually handled by the Sparsity assumption.

Analysts need to analyze multivariate time series with more than hundreds of variables. Incorporating all information into the existing model will cause severe over fitting and bad prediction performance. In Sparsity assumption, the process of variable selection is elucidated and the arduous process of capturing and analysing the linear interdependencies among multiple time series is simplified. We want to construct a classification rule which classifies a new observation Surd into either the first or the second class. To illustrate the impact of noise accumulation in classification, we set n = 100 and d = 1, 000. We set μ1 = 0 and μ2 to be sparse, i.e., only the first 10 entries of μ2 are nonzero with value 3, and all the other entries are zero plots the first two principal components by using the first m = 2, 40, 200 features and the whole 1,000 features. As illustrated in these plots, when m = 2 we get high discriminative power. However, the discriminative power becomes very low when m is too large due to noise accumulation. The first 10 features contribute to

classifications and the remaining features do not. Therefore, when m > 10, procedures do not get any additional signals, but accumulate noises: The larger m,

the more noise accumulation, which makes the classification procedure deteriorates with dimensionality. For m = 40, the accumulated signals compensate the accumulated noise so that the first two-principal components still have good discriminative power. When m = 200, the accumulated noise exceeds the signal gains. Practical problems faced due to noise accumulation

PRACTICAL PROBLEMS:

High dimensionality brings spurious correlation, referring to the fact that many uncorrelated random variables may have high sample correlations in high dimensions. Spurious correlation may cause false scientific discoveries and wrong statistical inferences.

To cope with the noise accumulation issue, when the dimension d is comparable to or larger than the sample size, it is popular to assume that only a small number of variables contribute to the response, i.e., β is a sparse vector. Under this Sparsity assumption, variable selection can be conducted to avoid noise accumulation, improve the performance of prediction, as well as enhance the interpretability of the model with parsimonious representation.

High dimensionality also gives rise to incidental endogenity. Scientists collect covariates that are potentially related to the response. As there are many covariates, some of those variables can be incidentally correlated with the residual noise. This can cause model selection inconsistency and incorrect selection of genes or SNPs for understanding molecular mechanism or genetic associations.

Jayaram Harikrishnan
First year, IT A.

The longest recorded flight of a chicken is 13 seconds

THE WALL THAT WILL NEVER FADE

Jammy, as he was called by his fans actually contradicted the original meaning that stayed with the word jammy. Literally, jammy is a person who excels by pure fortune. He redefined the word jammy with the way he was, not in any dictionary but in the heart of his fans. Luck never had the occasion to knock at him, for he deserves every bit of the legendary status he has attained now. It was nothing that got evolved in a noticeable period of time. It was the culmination of hard work from the age of 12 when he started playing professional cricket. He proves to be a prodigious sportsman with the fact that he had a place in the junior state team for Karnataka in hockey, apart from cricket which is quite obvious. In 1996, he made his international debut, quenching his thirst to play for the nation. In few years, Dravid at the third position for India, became irreplaceable. Selfless is a word that's sweetness is felt when it is pronounced with Dravid. He made it look so evident that he played only for the team. What would it take a batsman to refuse, when he was requested to keep wickets as India wanted a batsman ahead of the main keeper. The demureness eclipses all the achievements that goes with him. That probably is something to get persuaded of. The face which turns blue on unfortunate situations make us cry for his failure. I've admired the wall ever since I started watching cricket. If you've had to name some who are ardent haters of Dravid, u must be on a search mission to Mars looking for aliens. " if you could not get along with Dravid, then you are struggling in your life "said the Australian pacer Brett Lee. McGrath once said that Dravid was the one who will have made it to the great Australian 90's team. When Dravid was playing his last ODI match, Sunil Gavaskar was commenting and he was said to be in tears when Dravid got out. Who could resist his absence in the team. But it can be assured that Mr.Gavaskar wasn't crying alone. With a lot of people's love and grace retires this gentleman who I personally feel is the greatest batsman India could've produced or history could have ever seen. He is the one to inspire people to regard hindrance as a positive hope. Salute gentleman!

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Only 38% of Americans eat breakfast every day.

STAGE

Dynamic stage, audience engaged
Flamboyant play, thrilled them away
Standing ovation, flooded on their way
All the way up, standing for cue
Bright coloured sky, wishing me to fly
On the azure plane, acting my way
Moon lighted the stage, preparing the hay
All the way up, standing for cue
Born a normal, blessed with art
Mastered the colours, down the stage
God's so fair, with famous game
All the way up, standing for cue
Calm down, it's a glamorous day
Intense stroke, on the stage
Celebrating the Golden play's name
All the way up, standing for cue
Affordable applause, negligible craft
While a chance, being a trait
Waiting for the stage, living dead
All the way up, standing on queue.

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"Those who cannot work with their hearts achieve but a hollow, half-hearted success that breeds bitterness all around." **- Dr. A. P. J. Kalam**

There are no naturally occurring blue foods, even blueberries are purple!

MARSHMELLOW IT IS...

Android is a software that includes Operating system, middleware and key applications. Google along with Open Handset Application (OHA) involved in Android Development and release. Recently, Google has officially announced that next version of android is Android 6.0 Marshmallow. Google says that it is focusing on polishing existing features and fixing thousands of bugsAPI level has changed to level 23 in Android M. There will be a update in fingerprint API that enables better error reporting and increasing reliability. Android M includes Visual Voicemail service which presents voicemail with visual interface. Screen Rotation for home screen is introduced in this version. Google has fixed bug in vertical-scrolling app drawer, making it faster to navigate. Google is trying to revamp its own mobile payment service which will be compatible with version Kit Kat and above. Android Pay will let you pay for products in the Store. Android M will bring full support to USB Type C which helps in charging the mobile faster. Google Now is added with some features like providing contextual information of anything that you are currently running on your mobile screen just by holding down the home button.

Some more features includes Direct share, floating toolbar, Simplified volume control and changes in user interfaces. Android Marshmallow Preview 3 is available for some Nexus 5, Nexus 6, Nexus 9, Nexus Player via Google's Developer Preview site. Google says that a full version of Android M for all devices will be available "later this fall"…

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There is a city named Batman in Turkey!

கவிஞர் எங்கே போனான்?

ஒன்றே போல் சுழலும்
காலச் சக்கரத்தில்
சிக்கிக் கொண்டானோ?
கறுப்புச் சமூகம்
தனில் புதைந்து
நிழலாக்கப்பட்டானோ?
சாதி சமூக வேற்றுமைகளில்
கூனிக் குறுகிப் பின்
மிதித்து தள்ளப்பட்டானோ?
சொற்களந்தனில் சிறையடைந்து
சுட்டெரிக்கப்பட்டானோ?
பழக்கமாக்கி விடப்பட்ட
வலைப் பக்கங்களில்
பின்னிக் கொண்டானோ?
சுதந்திரம் ஜனநாயகம்
என பேச விட்டு
அடிமையாக்கப்பட்டானோ?
நிகழ்காலத்தின் வாசனையை
மறந்து தொலைந்தானோ?
கருத்துகளால் ஆன
உலகத்தில் மயங்கிப் போனானோ?
சாத்தியமற்ற கனவுகளில்
மூழ்கிப் போனானோ?
அல்லது இப்படியான தாக்குதல்களால்தான்
எத்துணையும் இல்லா
இந்நடுச் சாமத்தில்
அவ்வடிகாலையும்
காணவில்லையே?
சொல்லுங்கள்?
எனக்குள் இருந்த கவிஞன்
எங்கே போனான்??

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Just like fingerprints, everyone's tongue is different.

ஹைக்கூ

முயற்சி

"முதல் முயற்சியில் வெற்றி பெறுபவன்
--அதிர்ஷ்டசாலி
இரண்டாவது முயற்சியில் வெற்றி பெறுபவன்
--புத்திசாலி
மூன்றாவது முயற்சியில் வெற்றி பெறுபவன்
--தைரியசாலி
நான்காவது முயற்சியில் வெற்றி பெறுபவன்
--அனுபவசாலி
வெற்றி பெறும் வரை முயற்சி செய்பவன்
--சாதனையாளன்"

நம்பிக்கை

வானவில் தோன்றும்போது வானம் அழகாகிறது;
நம்பிக்கை தோன்றும்போது வாழ்க்கை அழகாகிறது.

பொறுமை

தண்ணீரையும் சல்லடையால் அள்ளலாம்;
அது பனிக்கட்டியாகும் வரை காத்திருந்தால்.

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The elephant is the only mammal that can't jump!

அன்னை

அம்மா முகத்தை பார்பதற்கு
     அழகாய் எனக்கு கண்ணிரண்டு
அம்மா சொல்லை கேட்பதற்கு
     அழகாய் எனக்கு காதிரண்டு
அம்மா ஊட்ட சாப்பிடவே
     அழகாய் எனக்கு வாய் ஒன்று
கடவுளை நேரில் கண்டதில்லை
     கண்டேன்! கண்டேன்! தாய் வடிவில்.

நட்பின் அழகு

கடலின் ஆழத்தை அளக்க முடியாது
அது போல
அன்பின் ஆழத்தை அளக்க முடியாது
என்றாலும்,
புரிந்து கொள்வது நட்பின் அழகு!!!!!!!

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A broken clock is right two times a day.

MOTHER LIKE NO OTHER

From the day my eyes opened
Till the day your eyes closed
You made sure you stood
In every step I took
Times where there when I pushed you out
Saying that I don't need you now
Thinking that I've known too much
But you came back with that unconditional love
That tore my Ego and Pride apart
For you're a mother like no other.

To you I was always perfect
Nothing in return did you expect
You always sang a song pitch perfect
To make me realize I was no defect
You made sure my heart was the best closet
You're the one who brought the God to me closest
Thank you mom for making me believe that I can live a
life with no regret
For you're a mother like no other.

V. Ramya Dhevi,
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"NO LANGUAGE CAN EXPRESS THE POWER,AND BEAUTY,AND HEROISM, AND MAJESTY OF A MOTHER'S LOVE" **—EDWIN HUBBELL CHAPIN**

A duck's quack doesn't echo anywhere, no one knows why.

EAST OR WEST, INDIA IS BEST :)

"India is, the cradle of the human race, the birthplace of human speech, the mother of history, the grandmother of legend, and the great grandmother of tradition. Our most valuable and most instructive materials in the history of man are treasured up in India only." —**MARK TWAIN.**

~LET'S KNOW ABOUT US~

- India has the largest postal network in the world with over 1,55,015 post offices. A single post office on an average serves a population of 7,175 people.
- The 2011 Kumbh Mela was the largest gathering of people with over 75 million pilgrims. The gathering was so huge that the crowd was visible from space.
- Bandra Worli Sealink has steel wires equal to the earth's circumference. It took a total of 2,57,00,000 man hours for completion and also weighs as much as 50,000 African elephants.
- At an altitude of 2,444 meters, the Chail Cricket Ground in Chail, Himachal Pradesh, is the highest in the world. It was built in 1893 and is a part of the Chail Military School.
- Shampoo was invented in India, not the commercial liquid ones but the method by use of herbs. The word 'shampoo' itself has been derived from the Sanskrit word *champ,* which means to massage
- In September 2009, India's ISRO Chandrayaan- 1 using its Moon Mineralogy Mapper detected water on the moon for the first time.
- May 26 — Science day in Switzerland is dedicated to Ex-Indian President, APJ Abdul Kalam.

India is also the land of great minds like Dr.Shakuntala Devi (The Human Calculator), Dr.Rabindranath Tagore who wrote the National Anthem for Bangladesh also, Dr.A.P.J.Abdul Kalam, Sir C.V. Raman and many more!

Abhirami,
Third year.

Feel **proud** *to* **be** *an Indian*   **abhiramir@it.ssn.edu.in**

The 30th of November is known as "Computer Security Day ".

WORK OF ART...

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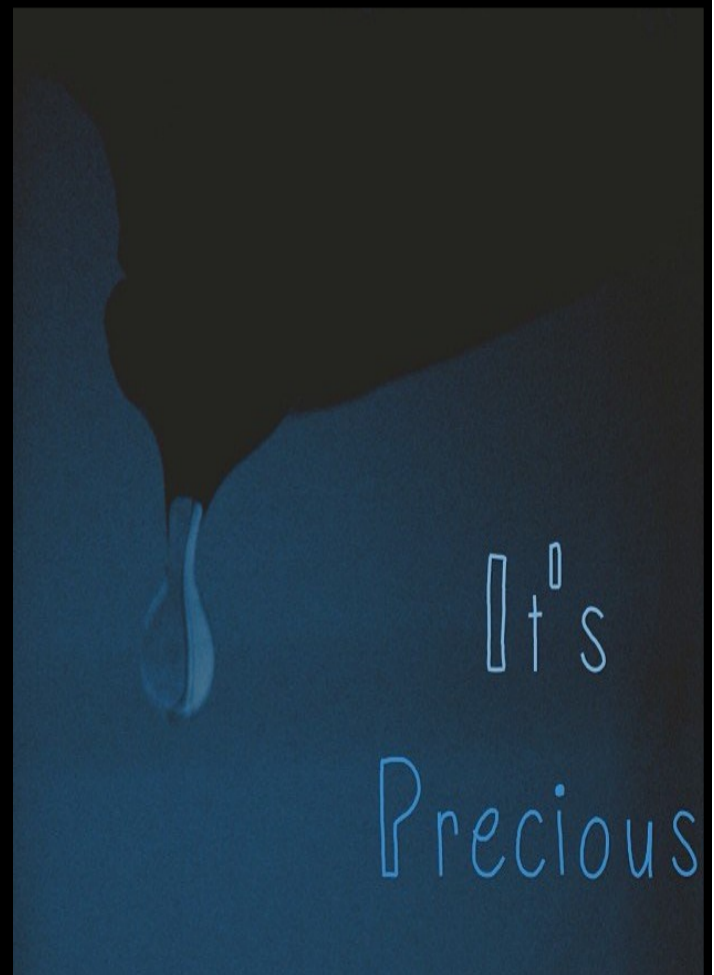
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ACHIEVEMENT-STUDENT

AKSHAY KARTHIK of Second Year won the "Runner-up" award for paper presentation event. His paper titled "Design Of A Hybrid Chip using DNA computing technology and microprocessors" was presented during first year at CYNAPSE 15. Presented a paper and have won the Overall Trophy Award for the points we secured. Currently doing a virtual internship—"College Ambassador Program" in a new start up company called Walking an start up started by IIT alumnus which is an android app with an efficient technology to search a job.

BISHWANTH of Third year IT-A has finished 6 grades in drums at Trinity college of music London and out of 6, he has obtained 3 grades with distinction.

K. S. HARISH of Third Year IT-A has Won Tamil Nadu state ranking badminton tournament.

ARUNASUBHA of Third year IT-A has presented a paper "Korean - Tamil Language and cultural similarities".

C. JAYASHREE of Third Year IT-A attended an in-plant training in ICF (Integral Coach Factory), Chennai from 11th to 22nd of December last year. "It was an excellent exposure for me. I learnt working with cent OS and maintaining the database server. I had a visit to the factory to look at the various work involved in building the train. It helped learn about welding in more detail and practically. Overall it was a good way to spend the holidays", says Jayashree.
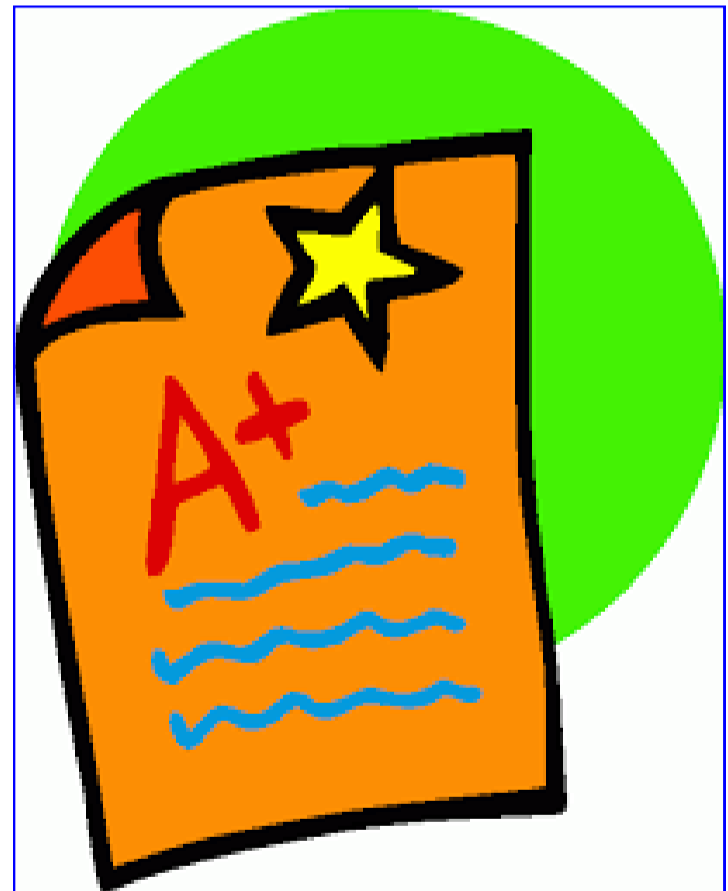
KRISHNA of Third year IT-A is currently working on Automated attendance system, for internal funding that was held in 2014. He is also a member of "teach a school" program and went to Sivaswami Kalalaya to impart knowledge to needy. He designed websites for international conferences, math symposiums, He is currently working as an intern in Web and UI development in Ossify Pvt. Ltd. Researching in the field of cognitive computing, on the prospects of taking pre-release live review of films based on the concept of scanning brainwaves using EEG, under the guidance of Dr.N.Bhalaji.

AKSHARA VENKATESHAN of Third year IT-A has done internship in AXLERATE, a Singapore based company. She had won prizes in Debate and other speaking events in Techno-Management events.

T. SRI SAI BHARGAV of Third Year IT-B is an Oracle certified Java 6 professional, Oracle Certified Web Component developer. He presented a Research paper in an international journal (International Journal of Innovative Research In Information Security) on the topic—Layered Security. Also he is currently working on Drowsy Driving System Project. He also done a one month internship in a start up company, JAZE NETWORKS.

A. PRAKASH, M. SATHISH of Third year IT B has done a Paper presentation on the topic, Dynamic Round Robin task scheduling algorithm in cloud environment (Journal name—International Journal of Applied Engineering research, Conference name—National conference on Information and Technology) at SSN College of Engineering.

Success isn't just about what you accomplish in your life.

Its about what you inspire others to do .

FACULTY PROJECTS

Multiagent based Scheduling for NOC based Multicore Architectures

Cost : 1.20 L

Duration: 3 Years

Abstract:

The project is to develop a novel approach to Multiagent based scheduling for NOC based Multicore architecture. In today's chips, all the cores typically somewhere between two and six are connected by a single wire, called a bus. When two cores need to communicate, they're granted exclusive access to the bus. But that approach won't work as the core count mounts: Cores will spend all their time waiting for the bus to free up, rather than performing computations. In a network-on-chip, each core is connected only to those immediately adjacent to it. The increase in processor core brings new evolution in parallel computing.

Besides enormous performance enhancement, this Multicore package injects lot of challenges and opportunities on the operating system scheduling point of view. We know that Multiagent system is concerned with the development and analysis of optimization problems. The main objective of Multiagent system is to invent some methodologies that make the developer to build complex systems that can be used to solve sophisticated problems. This is difficult for an individual agent to solve. In this project we are going to combine the AMAS theory of Multiagent system with the scheduler of operating system to develop a new process scheduling algorithm for NOC based Multicore architecture. This Multiagent based scheduling algorithm ultimately minimizes the average waiting time of the processes in the centralized queue (main memory) and also will reduce the task of the scheduler.

Principal Investigator: Dr. G. Muneeswari, Associate Professor, IT.

muneeswarig@ssn.edu.in

The Apple II had a hard drive of only 5 megabytes when it was launched.

Disaster Management System-Next Generation

Project Duration   : 2 Years

Project Amount   : 3.05 L

Abstract:

Disaster management is an important global problem. Disasters affect every country on Earth that result in death or injury to humans, and damage or loss of valuable goods, such as buildings, communication systems, agricultural land, forest, natural environment and etc. Hence, an effective disaster management is a global challenge. Recent studies show that Wireless Sensor Networks (WSN) can play an important role in enhancing the disaster management system especially for   disaster detection and alerting the authorities and public using mobile phones and social media. Hence, this project aims to develop the next generation disaster management system by integrating wireless sensor technologies, mobile communication technologies with remote   sensing imagery for providing the awareness to the public with pre and post disaster information.

Principal Investigator : **Mr. I. Joe Louis Paul, Assistant Professor, IT.**
                   joelouisi@ssn.edu.in

Co-Investigators   : **Ms. S. Sasirekha & Ms. R. Swathika,**
                   Assistant Professors, IT.

The first alarm clock could only ring at 4am.

Customization of IoT protocols for Societal Applications using QoE Project Proposal

Total Budget : 3.30 L

Abstract :

Existing protocols for IoT is not customised. Moreover, WSN and IoT are still under broad research and not gone up to the level of core specialization. The protocols that are designed for IoT cannot be glued for application specific networks effectively. Apart from this, trade-off between improvising QoS parameters should be made based on the user satisfaction and deployment environment. So, it is necessary to formulate new parameters (QoE) for measuring and improving the performance of deployed specialized networks.

The measurement of QoE plays a major role in providing service and the decision based on QoE is crucial for certain applications. The quality of few parameters becomes crucial based on the criticality of the application. In order to analyze the existing protocols, this work, plans to focus on three such sample applications.

- Medical Diagnosis
- Water Quality Analysing

The above applications are modelled as network jobs and fed into simulator for analysing the performance of existing protocols in IoT for data collection or retrieval. The objective of this research work is to create a real time testing environment to analyse and prove the performance of existing protocols and to focus on protocol customization. The customized protocol would be applied on various heterogeneous platforms as stated above and QoE would be measured.

Principal Investigator   : **Dr. N. Bhalaji, Associate Professor, IT.**
                                   bhalajin@ssn.edu.in
Co-Investigator   : **Dr. S. Chithra, Associate Professor, IT.**
                                   Mr. K. Kabilan, Assistant Professor, IT.

"GOT U!!" TAKES SSN TO BOSTON !!
RPMS (Real-time parking monitoring system)

RPMS (Real-time parking monitoring system), an app , on the HP Helion Development Platform utilizing two HP IDOL On Demand APIs was voted as the best overall submission by our panel of judges. Team ParkIt was able to develop a working version of the app and met the extensive judging criteria.

TEAM PARKIT consisted of none other than our very own faculty members VINOB CHANDER, Assistant Professor, IT and S SASIREKHA, Assistant Professor, IT. Here is a sample of questions and the response that were part of the competition.

Q: Have you heard of HP Helion Development Platform prior this? How was the overall experience – with our platform, our staff and developers?

R: We came to know about this excellent and innovative platform @ GIDS. Our overall experience with using HP Helion Development platform was fantastic as it supports languages like Java, Node, PHP and .NET. It geared us to immediately start with our favorite language and platform, focusing on the app logic. And, with the HP Helion CLI (for Windows, Linux, & Mac) we very easily deployed our application.

Participants: Mr. R. Vinob Chander, Assistant Professor, IT.

Ms. S. Sasirekha, Assistant Professor, IT.

Laurels to our IT

Dr. R. Srinivasan Ph.D., Professor and **Dr. T. Sree Sharmila** Ph.D., Associate professor of **INFORMATION TECHNOLOGY** won the best teacher award. We extend our hearty congratulations and hope for many such awards in future.

Teachers who love teaching, teach children to love learning!

WORKSHOPS@IT

NATIONAL CONFERENCE ON INFORMATION TECHNOLOGY (NCIT 2K15)

Dr. N. Bhalaji, AP IT conducted a National level conference on Information Technology on March 21, 2015. **Dr. M. S. Sricharan**, Senior Specialist, Wipro Technologies was the Chief guest and delivered the keynote address.

Faculty members who were part of it:

Dr. N. Bhalaji, Associate Professor, IT.
bhalajin@ssn.edu.in

Mr. K. R. Uthayan, Assistant Professor, IT.
uthayankr@ssn.edu

Ms. S. Mohanavalli, Assistant Professor, IT.
mohanas@ssn.edu.in

Ms. V. Srividya, Assistant Professor, IT.
srividyav@ssn.edu.in

No. of papers received: **102** papers

No of papers shortlisted: **54** papers

Various aspects of Information Technology were discussed. All the shortlisted papers of the conference were published in The International Journal of Applied Engineering Research (IJAER). IJAER is an International Research Journal for publication of new ideas, intended for professionals and researchers in all fields of engineering.

WORKSHOPS@IT

RESEARCH SCHOLARS' SYMPOSIUM

Dr. S. Karthika, Associate Professor, IT conducted a Research scholars' symposium on April 4th, 2015.

Total no. of participants: **13**

The Theme of the event involved Statistical challenges of Big data, Big Data Visualisation, Understanding complex Networks, Practical challenges of Data Analytics and Recent Developments in Large scale Data Analytics.

The Industry experts from CTS and Ericsson delivered lectures on issues of applying DA to real world problems. The lectures were followed by demonstrations about the tools and techniques used.

Highlights of IT Staff Activities Since FEBRUARY 2015

March 31, 2015 & April 1, 2015

- Dr. T. Sree Sharmila, R. Swathika, J.K. Josephine Julina & Sofia Jenifer have completed data collection for the internally funded project titled," Development of High Resolution Imaging Algorithm for Underwater Acoustic Images" in shallow water at offshore Chennai.

- Priyanka Radja, K.Ragavi, **S. Chithra**, " Portable Text to Speech Converter for the Visually Impaired", Proc. Springer Intl. Conf. Soft Computing Systems, Thukulay, India, Apr. 2015.

- Gomathi Venkatesan and **Chithra Selvaraj**, " Bio-Sensor Authentication for Medical Applications using WBAN", Proc. Springer Intl. Conf. Soft Computing Systems, Thukulay, India, Apr. 2015. **This paper was awarded the best paper in the conference.**

- Dr.G.Muneeswari(Associate .Prof/IT) has participated in the National Level Technical Symposium "UBERTECH'15" and acted as a judge for the Technical paper presentation contest organized by SRM University, Vadapalani.

- Pavithra Ramasamy, Savitaa Venkateswaran & S.Vidhusha, "An Efficient Transfer of EHRs on the cloud using Decaying Window Principle", in the Proc. of International Conference on Electrical, Com   puter and Communication Technologies (IEEE ICECCT 2015) pp. 673-678, organized by SVS College of Engineering, Coimbatore. The same paper will be published in IEEE Digital Xplore.

- Akshaya B, Narmadha V, Sree Sharmila T and Rajendran V, presented a paper titled "Sparse representation to localize objects in underwater acoustic images", in the IEEE International Conference on Electrical, Computer and Communication Technologies in SVS College of Engineering, Coimbatore.

- Sundharakumar Balasubramanian,Dhivya Subburam,Mohanavalli Subramaniam, R. Vinob Chander, presented a paper titled, "Cloud Based Fuzzy Healthcare System" to ISBCC 2015, VIT, Chennai. Paper accepted for publication to "Elsevier Procedia CSE", ISSN: 1877-0509

- Mr. V. Arul Kumar, AP/IT attended the "One day Workshop on Network security: Trends and Challenges" conducted by School of Information Technology and Engineering at VIT University, Vellore.

The following papers was presented in IEEE International Conference on Innovations in Information, Embedded and Communication Systems, Karpagam College of Engineering, Coimbatore
- J. Sofia Jenifer, T. Sree Sharmila and V. Rajendran, "Gradient based image enhancement technique for acoustic images".
- R. Swathika, T. Sree Sharmila, A. Muthu Alamelu and V. Janani, "Study and Analysis of Glacial Level Changes using Fuzzy C Means Clustering
- Kummita Sriteja, Mallemula Vineetha and T. Sree Sharmila, "Efficient quality analysis of underwater acoustic images
- Avinash Vishnu V, Divya Prakash J, Swathika R, Sree Sharmila T, "Detection and Classification of Long Bone fractures"
- Gowri M, Kiruthika C, Swathika R, Sree Sharmila T, "Satellite image fusion based on advanced color enhanced HIS"
- A.B.Prashanth, P.Jeny Ton Nielsina**, S.Sasirekha** "A Study on IoT Based Applications".
- **R. Vinob Chander**, "A Service Oriented Architecture for IoT Applications "
- Banupriya.K, **Poornima.S**, "Face Detection from Hazy Samples.
- **Poornima.S**, S. Subramanian, "Personal Authentication through Dorsa Palm Vein Patterns".

- **S. Mohanavalli**, **Srividya**, Saranya.A, "Change Detection for Stream Data Clustering".
- Sundhara Kumar K.B., **Srividya, S. Mohanavalli,** "Survey on Homomorphic Encryption Techniques".
- **G.Muneeswari,** Frank Vijay. J, "Inductive Learning based Storage Compaction Algorithm for Multicore Architecture"
- Vaikkunth .M, K. Sri Vishnu Kumar, **G. Muneeswari**, " Resource Allocation Algorithm for Cluster Environment with Distributed File System for Big Data"
- M.Satish, A.Prakash, **G. Muneeswari, S. Chithra** "DRRS Task Scheduling Algorithm for Cloud Environment".
- D. Nandan and P. Sanjana,**S. Chithra**, **G. Muneeswari** "SMART CYLINDER PAD Based on Internet of things.
- Ms.L. Meghana, S. Krithika, K. Gokulapriya, **S. Chithra, "**Enhancement of IoT using LoRa Architecture".
- **S. Karthika**, Vinodhini.M, " Prediction of Links in Complex Networks".
- **V. Thanikachalam**, K.K.Thyagharajan, "Human Action Recognition Using Motion History Image and Correlation Filter".

- R. Vinob Chander, AP, IT was selected as one of the members of the TPC for AIIE 2015 , July 26th & 27th 2015, Phuket, Thailand, http://www.aiie2015.org/com.htm .

April 2015

- Dwarakesh T P, S. Ananda Subramaniam, T. Sree Sharmila, "Vacant Seat Detection System using Adaboost and Camshift", International Journal of Electrical and Computing Engineering, Vol. 1, Issue. 3, April – 2015, pp.9-13. [ISSN: 2349-8218].

- Nivedita N, Noorjahan M & **Karthika S**, "Big Data – Hand in Hand with Social Networks", Proceedings of 23rd IRF International Conference, pp 46-51.

- Vaishali Sarathy, Srinidhin S & **Karthika** S, "Semantic Analysis using Big Data from Social Media", Proceedings of 23rd IRF International Conference, pp 40-45.

- Mr. R. Vinob Chander, AP/IT attended the *Webinar* on "Introduction to the Technology of Internet of Things", gogo6 Iot-Inc. Business Meet up.

- J. Mahil, T. Sree Renga Raja, **T. Sree Sharmila**, "Optimization algorithms for adaptive filtering of interferences in corrupted signal", Indian Journal of Pure & Applied Physics, Vol. 53, pp. 274-281, April 2015. [Annexure: I, IF: 0.711]

- Ms. N. Sripriya, AP/IT and Dr. T. Nagarajan, Prof & Head/IT published an article in the Journal " Electronic Letters", Vol. 51, No. 8, pp. 649-651 during April 2015.

- Dr. S.Karthika, Assoc.Prof/IT, published the paper titled "What happens next? Prediction of disastrous links in covert network", in Disaster Advances, Vol 8, no. 4, pp 53-60, 2015

- Sasirekha, S. Swamynathan published a paper titled "A Comparative Study and Analysis of Data Aggregation Techniques in WSN" to the " International Conference on Recent Advances in Engineering, Science & Technology – ICON'15", Department of Biomedical Engineering, Noorul Islam University, Kanyakumari, India.

- S. Uma Maheswari, A. Shahina, A. Nayeemulla Khan, J. Divya, "Spectral Transformation of Lombard Speech to Normal Speech for Speaker Recognition Systems", Proc. Springer Intl. Conf. Soft Computing Systems, Thukulay, India, Apr. 2015. This paper was awarded the best paper in the conference.

- Meenatchi.D. Aishwarya.R, A. Shahina," A Voice Recognizing Elevator System", Proc. Springer Intl. Conf. Soft Computing Systems, Thukulay, India, Apr. 2015.

- S. A. Kanagaraj, D. Kamalakannan, M. Devosh, A. Shahina, S. Uma Maheswari, A. N. Khan, "Automated Health Monitoring through Emotion Identification", Proc. Springer Intl. Conf. Soft Computing Systems, Thukulay, India, Apr. 2015.

- Dr.S. Chithra, Assoc.Prof/IT published the following papers in the conference "International Conference on Soft Computing Systems (ICSCS 2015)" organised by Noorul Islam Centre for Higher Education, Kumaracoil.

- Priyanka Radja, K.Ragavi, S.Chithra, " Portable Text to Speech Converter for the Visually Impaired", Proc. Springer Intl. Conf. Soft Computing Systems, Thukulay, India, Apr. 2015.

- Gomathi Venkatesan and Chithra Selvaraj, " Bio-Sensor Authentication for Medical Applications using WBAN", Proc. Springer Intl. Conf. Soft Computing Systems, Thukulay, India, Apr. 2015. This paper was awarded the best paper in the conference.

- Mr. R. Vinob Chander, AP/IT and Ms.S.Sasirekha, AP/IT attended the "Great Indian Developer Summit 2015" – a Saltmarch Media production @ IISC, Bangalore.

- Mutharasi, Ayeswarya, **G.Muneeswari**,, "Automatic Room Light Luminance Controller Using Wireless Sensor Network", in the National conference on Wireless Communication and Mobile Computing- NCWCMC 2015" organized by SRM University, Kattangulathur.

May 2015

- Mr. R. Vinob chander, AP/IT and Ms. S. Sasirekha AP/IT won the first prize on 27th May, 2015 for the Real-time Parking Management System (RPMS) app developed by them at the Hackathon conducted by Great Indian HP Code Off @ GIDS. They were awarded ROUND-TRIP TICKETS to USA for their accomplishment

Dr. G. Muneeswari (Asso.Prof/IT) has published the following journal Papers:
- "Agent based authentication for deep web data extraction", in the International journal of innovative research and Information security, vol.2, Issue 4, 2015.
- J.Frank Vijay, "Agent based Storage Compaction and BST Load Balancing Algorithm for Multicore Architecture", in the Journal of "Advances in Computer Sciences and Information Technology (ISSN 2393-9907)" Vol 2, No.4, pp 355-361, 2015.

June 2015

- Dr. T. Sree Sharmila, Associate Professor, has delivered a lecture on "Introduction to Computer Graphics application in Product Design" in the Two weeks AICTE sponsored National level Summer school on Computer Aided Product Design organized by the department of Mechanical Engineering, SSN College of Engineering

- Ms. J. K. Josephine Julina AP/IT attended the Two day Training on "Digital Image Processing Using MATLAB" organized by Computer Centre MIT Campus, Anna University.

- Dr.G.Muneeswari, Assoc. Prof/IT, Mr.K.Kabilan AP/IT, organized a Orientation Program for the second year IT students. Faculty members explored the range of academic and co-curricular opportunities available in the department to the students

- B. Ramani, M. P. Actlin Jeeva, P. Vijayalakshmi, **T.Nagarajan**, "A Multi-level GMM-Based cross-Lingual Voice Conversion using Language Specific Mixture Weights for Polyglot Synthesis", Circuits, Systems, and Signal Processing (accepted for publication).

- G. Anushiya Rachel, P. Vijayalakshmi, **T. Nagarajan**, "Estimation of Glottal Closure Instants from Telephone Speech using a Group Delay-Based Approach that Considers Speech Signal as a Spectrum", INTERSPEECH 2015, Germany (accepted for presentation).

- **S. Sasirekha, I. Joe Louis Paul**, B. Prasanth, M.R. Pravinkumar, K.H. Srijish, S. Swamynathan "Automatic Wireless Sensor Network Based Railway Safety System" Australian Journal of Basic and Applied Sciences, ISSN:1991-8178, Vol. 9 No. 20, pp.313-317, June 2015 [IF: 0.425]

- Saravanan, M., Aarthi Sridhar, K. Nikhil Bharadwaj, S. Mohanavalli, and V. Srividhya. "River Network Optimization Using Machine Learning." In Advances in Swarm and Computational Intelligence, pp. 409-420. Springer International Publishing, 2015.

- S.M. Jaisakthi and **S. Mohanavalli** , 2015. Skin Segmentation using Ensemble Technique . Research Journal of Applied Sciences, Engineering and Technology, Vol.9 No.11, pp. 963-968.

July 2015

- Ms. S. Uma Maheswari, AP/IT attended five days FDP on "Foundation Skills in Integrated Product development (FSIPD)" organized by Centre for Faculty Development, Anna University, Chennai

- Dr.G.Muneeswari, Assoc.Prof/IT, inaugurated the Association of Information Technology and gave guest lecture on the topic "Pipeline Hazards-Computer Architecture" at "Sri Sairam Institute of Technology", West Tambaram, Chennai.

- A paper titled **"Construction and Evaluation of Children Speech Emotion Corpus"** authored by Ms.Saambavi (ME 2013-2015 Batch) and **Ms.P Vasuki.AP/IT** has been **accepted for Oral** presentation at TENCON 2015, to be held at Macau, China during September 2015.

- Dr. R. Srinivasan, Prof/IT attended DC meeting @ Anna University .

- Ms. S. Uma Maheswari, AP/IT, attended a one day Faculty Development Program on Industry-Ready Programming Skills organized by Cognizant Technology Solutions .

- Ms. J. K. Josephine Julina AP/IT attended a one day workshop on "Recent Advances in Medical Imaging Techniques" organized by Centre for Medical Electronics , CEG Campus, Anna University

- Dr. R. Srinivasan, Prof/IT, gave a talk titled "Embedded Memories" in the Refresher Course on Embedded Hardware Design conducted by Dept of ECE, SRM University .

- Mr. R. Vinob Chander,AP/IT and Ms. S. Sasirekha, AP/IT attended the "HP Big Data Conference" @ Boston, USA during Aug.10-13, 2015 They also participated in the hackathon there and came up the theme named "Got U!!" that would essentially allow deaf people to actively participate in a conversation/meeting .

20th August 2015
- Mr. V. Arul Kumar, AP/IT participated in IEEE Authorship workshop," How to publish a Technical Paper with IEEE", at Indian Institute of Madras, Chennai.

22th August 2015
- Mr. V. Arul Kumar, AP/IT participated SPIN series technical talk on" Information Privacy in our times: How many shades of Grey" at Alumini centre@Anna University-Chennai.

Aug 2015
- A.Prakash, M.Satish, T.Sri Sai Bhargav, G.Muneeswari, "Improving cloud security using multilevel encryption and authentication", in the International journal of innovative research and Information security, Issue 8, Vol 2, ISSN: 2349-7009, August 2015.

September 5, 2015
- Ms. N. Radha & Ms. R. Swathika, Asst.Prof/IT gave an invited talk on "Computer Graphics using OpenGL" organized by Department of Information Technology at Dhanalakshmi Srinivasan College of Engineering and Technology.

September 7, 2015
- Ms. S. Sasirekha, AP/IT gave a guest lecture in "SOA support in J2EE and .NET" at GKM College of Engineering, Chennai .

September 18-19, 2015
- Mr. V.Thanikachalam , AP/IT participated in Two Days Technical Seminar on Video Analytics conducted by Mepco Schlenk Engineering College , Sivakasi .

LAUGH Monthly Focus LEARN

MONTHLY ACTIVITY IDEAS

WATER! WATER! EVERYWHERE...

" To unpathed waters, undreamed shores "

-Shakespeare

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Editorial Board

Student Editors:
B.Abirami   —Third year IT
P.Aneerudh   —Third year IT
R.Janani   —Third year IT
V.Rajalakshmi —Third year IT
S.Priyadarsani —Third year IT

Faculty-in-charge:
Dr. T. Nagarajan
Dr. S. Karthika
Ms. S. Vidhusha

Message from Editors:

Heartfelt thanks to all contributors and supporters. Here's hoping you like this edition of identITy, SSN-IT Department's Identity.

Please mail your suggestions to:-

→ Dr.T.Nagarajan
   (nagarajant@ssn.edu.in).

→ Dr.S.Karthika
   (skarthika@ssn.edu.in).

→ Ms.S.Vidhusha
   (vidhushas@ssn.edu.in).