IcfaiTech Newsletter

Highlights:

Welcoming Pro Vice Chancellor	Outstanding Placement	Faculty Achievement
Reopening of Campus	Campus Happenings	Alumni Meet
Examination through SIS	Student Achievement	Palindrome This Month

📋 *From the DEAN"s Desk*

IcfaiTech, Hyderabad fosters an educational system that is academically transformative. We are inviting the students back to our stimulating campus so that every student is able to use our technologically embedded classrooms for acquiring the skills and knowledge imperative for becoming accomplished professionals. IcfaiTech, Hyderabad has also become a dynamic venue for prodigious minds to converge and learn mutually. As part of our vision to incorporate synergy in technical education, we have arranged an FDP on "Advancements in Speech and Natural Language Processing" where professionals converged and exchanged their vast reserves of expertise. I welcome my readers to stay connected with us through the February Newsletter which highlights the immense achievements of our students and faculty members as well as takes you through the Conferences that provided insights into various fields of technology and scientific advancements.

~ Prof. A. Vadivel,
DEAN - IcfaiTech, Hyderabad
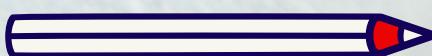
📋 *Welcoming the Pro Vice Chancellor*

IcfaiTech, Hyderabad is delighted that Prof. Bidyut K. Bhattacharyya (Fellow, IEEE) has joined our University as the Pro Vice Chancellor. His Ph.D. work on "Lowest Density Liquid Ever Found in Nature" is recognized as one of the greatest experiments in the discipline. His transformative research propelled him to have 27 patents which are considered industrial breakthroughs in the field of Electrical Engineering. One of the best discoveries of 1990 is the first laptop package designed by Prof. Bhattacharya which can handle high frequency and less than 10-watt power.

Prof. Bhattacharya's gamut of accolades includes an IEEE Grade award for his contributions to the electronics packaging and an IAA award given by Dr. Andy Grove and Dr. Gordon Moore, founders of Intel Corporation. His relentless research work on interconnect which deals with power delivery solutions and signalling, and his immense experience in academia, will enhance the culture of research at IcfaiTech, Hyderabad. Under his leadership, our Institute Is aspiring to become a research-intensive educational space, solving problems of the society and contributing towards our nation.

📋 *Reopening of Campus*

The modern era in education has commenced where IcfaiTech, Hyderabad has evolved and emerged uncompromising with the academics of the students. From 7th February 2022, IcfaiTech, Hyderabad has instructed the faculty members to conduct classes from the classrooms using the extensive technologically equipped teaching-learning infrastructure embedded in the respective classrooms. The teachers will be conducting classes offline which will also be available on the online LMS for the students who are unable to attend offline classes due to geographical constraints. Vast experience in learning technology and an array of experts and resources have steered the Institute to establish this educational milieu as a step towards providing the classroom experience to the young learners, enabling them to interact with the faculty and their peers, helping them to take part in various classroom and campus activities, and eventually equipping them to emerge as global professionals and leaders of the future.

📋 *Examination Through SIS*

The ongoing COVID-19 pandemic has ushered IcfaiTech, Hyderabad to transform the pedagogy as well as exam pattern for providing a seamless experience to the learners. Consequently, the Institute is conducting examinations through a platform plugged into technology. Test – I conducted by IcfaiTech, Hyderabad, which was held on 21st to 28th February 2022, have used the Student Information System (SIS), a web-based platform enabling students to appear for this test online. This dynamic portal has facilitated the faculty members to devise Multiple Choice Questions and evaluate the answers submitted by the students to assess their understanding of the concepts and courses, making the process swift and flawless.

📋 *Outstanding Placement*

IcfaiTech, Hyderabad congratulates Mr. Parv Garg, B.Tech., CSE, Class of 2021, and Mr. Tushar Sharma, B.Tech. Class of 2021 as they bag outstanding placement offers. While Mr. Tushar is placed as Blockchain Developer at NVEST, Bengaluru with a salary package of 15 LPA, Mr. Parv has joined Senary Ventures, USA, as a Blockchain Developer with a package of 54 LPA.

NVEST, Bengaluru is aiming to build a fully integrated, API-based application for the organizations operating in the insurance industry. We are expectant that Mr. Tushar will contribute substantially in assisting the clients of NVEST in their digital journey and achieving milestones for the organizations. Also, we wish Mr. Parv serves Senary Ventures by innovating decentralized technologies and proving his mettle in world space.

Mr. Parv has shared his experience in a candid interaction:

Tell us about your journey

I was always interested in coding and used to spend some time learning it daily. During my second year, I had developed an interest in Blockchain Technology. Thanks to our professors, I had opportunities to do research in Blockchain, elevating my interest in the field. During the mid of my third year, the COVID pandemic hit, and the college started taking off-line classes. I knew I would get much more time to work on my skills now, and this indeed became a golden opportunity for me. I spend many hours learning web development and Blockchain. Once I was a bit confident, I started looking for remote internships and didn't bother if it was paid or unpaid.

Finally, I got a six months unpaid internship at Somish, a reputed blockchain company at the moment. I actually texted its CEO, Ish Goel, to hire me as an intern and that I wanted to learn while helping his firm. I gave multiple interviews and got in. At Somish, I worked hard, literally day and night, I learned a lot and made my presence felt. And by the end of the internship, they offered me a job. I informed our placement cell and asked them if I could officially do my fourth year training at Somish, and as I already had an offer letter I was allowed. Then the rest is history, just worked hard and made my way up.

What drove you to success?

I believed in myself and worked hard towards my goals. I didn't care about earnings or salary initially, my main focus was on learning and growing. I pushed myself to get out of my comfort zone because that's when I truly upscaled. Lastly, I was always on the lookout for better opportunities and was ready to take risks.

How did the Placement Cell of IcfaiTech, Hyderabad help you achieve such immense success?

The placement team started my professional career well by getting me into a good firm during my second-year internship, Karvy Data Management. Karvy, while keeping me busy with work, helped me experience the office environment and its ethics. Moreover, it created the base to where I am now. The placement cell, also allowed me to pursue my fourth year training program from Somish, the company of my choice, which was the best news I was hoped for. And, we know how Somish helped me get where I am now.

📋 *Campus Happenings*

IcfaiTech, Hyderabad arranged a One-week Online Faculty Development Programme on "Advancements in Speech and Natural Language Processing" from 21st February 2022 till 25th February 2022. Prolific personalities having a gamut of experience across spheres were invited to organize numerous sessions where their insightful oration enthralled the audience.

Prof. Hemant Patil, (DA-IICT), member of ISCA, IEEE, IEEE Signal Processing Society, IEEE Circuits and Systems Society, EURASIP, APSIPA, and an affiliate member of IEEE SLTC, has several accolades intertwined with him. He is a regular reviewer for ICASSP and INTERSPEECH, Speech Communication, Elsevier, Computer Speech and Language, Elsevier and Int. J. Speech Tech, Springer, Circuits, Systems and Signal Processing, etc. Dr. Patil has taken a lead role in organizing several ISCA supported events, such as summer/winter schools/CEP workshops (on the theme as speaker and language recognition, speech source modeling, text-to-speech synthesis, speech production-perception link, advances in speech processing), and progress review meetings for two MeitY consortia projects. He applied his sprawling knowledge in speech and speaker recognition, analysis of spoofing attacks, TTS, and assistive speech technologies such as infant cry and dysarthric speech analysis and classification during the programme through the invigorating sessions, including a speech on "Generative Adversarial Networks (GANs) for Speech Technology".

Among other notable speakers, Prof. S. Vijaya, KL University, Vijayawada chaired the sessions titled "Hybrid and statistical and neural approach for speech recognition" and "Topic Deep learning methods for speech recognition", Prof. Mahadeva Prasanna, IIT, Dharwad spoke on "Trends in Speech Processing using Deep Learning", Dr. M Naga Mani, UoH, Hyderabad narrated the significance of "Trends in Speech and NLP", Dr. H. K. Kathania, NIT, Sikkim orchestrated a session on "Automatic Speech Recognition: Recent trends, applications, and low Data Scenario", Dr. Waquar Ahmad, NIT, Calicut spoke on "I vector based speaker verification system", Dr. K. Sudarshan Reddy, Aalto University, Finland orated about "Basics of Speech Signal Processing: Review", Mr. Vivek Bansal addressed "Mindfulness and Meditation", and Dr. A. Vadivel, Dean, IcfaiTech, Hyderabad illuminated the audience regarding "Analysis of Sarcasm in Sentence Pattern using Fuzzy Model for IR Applications".

Prof. S. Vijaya   Prof. Mahadeva Prasanna   Dr. M Naga Mani   Dr. H. K. Kathania

Dr. Waquar Ahmad   Dr. K. Sudarshan Reddy   Mr. Vivek Bansal   Dr. A. Vadivel

Campus Happenings

The Department of Data Science and Artificial Intelligence, IcfaiTech, Hyderabad invited Dr. Suresh Chandra Satapathy. KIIT, Odisha to deliver a talk during a seminar titled "Evolutionary Computing: Design of Intelligent System" on 24th February 2022. Evolutionary Computing is a subfield of Artificial Intelligence and soft computing which grasps inspiration from natural evolution and other biological systems. The technologically advanced machines perceive and respond to the world around them. This emerging intelligent system focuses on the interaction of these systems with human users in dynamic physical and social environments. Evolutionary computation enables the computer to develop programs on its own to solve complex problems that may not be well be understood and are difficult for humans to tackle.

Dr. A. Vadivel, Dean, IcfaiTech, Hyderabad welcomed and introduced the key speaker of the session,

Dr. Suresh Chandra Satapathy to the audience. Dr. Suresh Chandra Satapathy is currently working as Professor of School of Computer Engineering and Dean - Research at KIIT (Deemed to be University), Bhubaneshwar, Odisha, India. He formerly held the position of the National Chairman (Educational and Research) of the Computer Society of India and is also a Senior Member of IEEE. Dr. Suresh is on the Editorial Board of IGI Global, Inderscience, Growing Science journals and was also the Guest Editor for the Arabian Journal of Science and Engineering published by Springer. He is the Editor-in-Chief of IJIDSS from Inderscience and Associate Editor of KES Journal from IOS press. He is a visiting professor to several reputed Universities like the University of Leicester, London, NTU, Singapore, Duy Tan University, Vietnam, etc. He was awarded Leadership in Academia Award in India by ASSOCHEM for the year 2017. He is quite active in research in the areas of Swarm Intelligence, Machine Learning, Data Mining, and Cognitive Sciences. He has developed two new optimization algorithms known as Social Group Optimization (SGO) published in Springer Journal and SELO (Social Evolution and Learning Algorithm) published in Elsevier.

ICFAI Foundation for Higher Education
(Deemed-to-be University under Section 3 of the UGC Act, 1956)

IcfaiTech
Faculty of Science & Technology (FST)

Seminar

on

Evolutionary Computing: Design of Intelligent System

By

Dr. Suresh Chandra Satapathy (KIIT, Odisha)

Date: 24th February 2022

Organized by

Department of Data Science and Artificial Intelligence IcfaiTech, IFHE, Hyderabad - 501203

📋 *Campus Happenings*

Seminar on ""IB-RPL: Embedding Isolation and Blacklisting of Malicious Nodes in RPL for Securing IoT-LLNs""

Department of Computer Science and Engineering presented the Faculty Seminar on 25th February 2022. During the session, Dr. Rashmi Sahay, Assistant Professor, Department of CSE delivered a talk on "IB-RPL: Embedding Isolation and Blacklisting of Malicious Nodes in RPL for Securing IoT-LLNs". The constrained characteristics of devices in the Internet of Things (IoT) environment deters the implementation of robust security solutions. Consequently, intrusion of malicious nodes in IoT environment is a frequent phenomenon. Such malicious nodes often exploit the vulnerabilities of the underlying routing protocol to instigate several DDoS attacks. The IPv6 Routing Protocol for Low Power and Lossy Networks (RPL), popularly used in numerous IoT applications, is susceptible to several routing attacks. Various researchers have proposed mechanisms for detecting routing attacks and identifying malicious nodes in RPL-based IoT environments. However, the benefit of such mechanisms can only be harness when identified malicious nodes are quickly isolated from the IoT environment. Therefore, the removal of identified malicious nodes outweighs any other security measure. Malicious nodes, often located in remote locations, are difficult to dislodge at the earliest. This paper proposes to embed the isolation and blacklisting mechanism of suspected malicious nodes in the routing process itself. We propose upgrades in the existing RPL routing process to enable fair nodes to collaboratively weed out malicious nodes and restrict the spread of malicious activities in the IoT environment. We call the modified RPL with self-mechanized isolation and blacklisting of malicious nodes as IB-RPL.

Student Achievement

Dindi Venkat, 4th Year, Department of CSE has been awarded a certificate for successfully participating in the "challenges" specified by the 2021 edition of the Indo-Dutch Cybersecurity Summer School held from 1st October 2021 till 29th October 2021. The Indo-Dutch Cybersecurity Summer School provides a large-scale action learning platform for students and young professionals in the realm of Cybersecurity and policy. It offers several opportunities to gain expertise in a myriad of disciplines, including engineering, ethics, law, and policy through sessions conducted by government representatives, companies, or academic institutions. These learnings are further reinforced by assignments, known as challenges, that students must confront in multidisciplinary groups. Participants receive feedback and information, enabling them to gain expertise in the domain of Cybersecurity.

We have interacted with Mr.Venkat to comprehend his experience and gain further insights pertaining to his learnings.

Introduce yourself.

I'm Dindi Venkat Sai Sagar, a 4th year student of IcfaiTech, Hyderabad pursuing Computer Science Engineering.

Shed light on Indo-Dutch Cybersecurity Summer School.

Indo-Dutch Cyber Security Summer School is an event conducted by the Government of Netherlands and the Government of Telangana, India to impart Cybersecurity knowledge to students, teachers, and researchers.

Share with us your experience.

Having a foundational knowledge of Cybersecurity, this event enabled me to enhance my skills through training and solving challenges on Cyber laws and the importance of Cybersecurity in law enforcement agencies.

How did you find out about this Programme?

Every year our college informs us regarding this event through E-mails.

What are your key takeaways?

I extensively learned about Cyber laws, Cybersecurity in law enforcement, risk in IoT, and measures to ensure online safety.

How will it help you grow in your career?

I have gained skills and knowledge pertaining to top security measures undertaken by our nation.

How did IcfaiTech support you regarding this?

Our college has always given us a chance to learn new things and encouraged us to participate in the Indo-Dutch Cybersecurity Summer School.

Any other experience that you would like to share?

We had sessions with experts such as I.G. - Telangana Police, Chief Security of the Prime Minister Office (INDIA), and other Government officials as well as industry experts of Netherlands.

📋 *Faculty Achievement*

Dr. Sandeep Kumar Panda, Associate Professor, Head of the Department, Department of Data Science and Artificial Intelligence, IcfaiTech, Hyderabad was invited as the Chairperson in the 7th series of International Conference on Information System Design and Intelligent Applications,
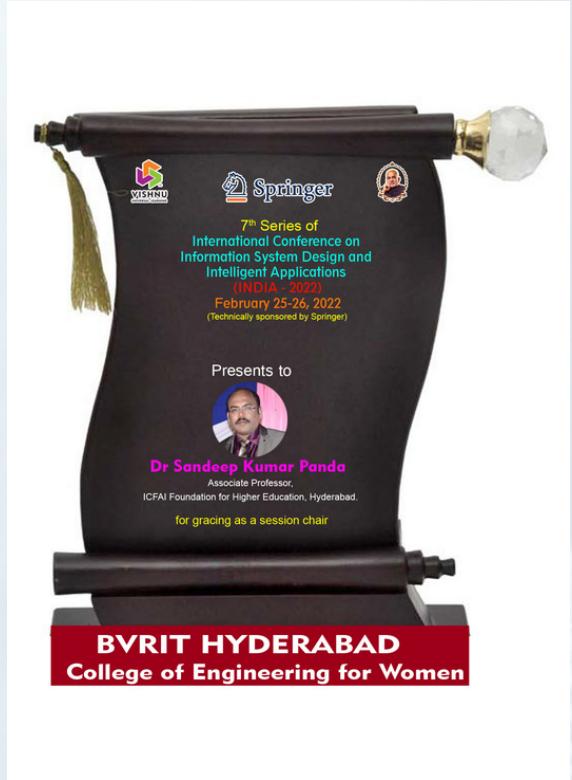
sponsored by Springer, and BVRIT Hyderabad College of Engineering for Women, that was held from 25th till 26th February 2022. It is an esteemed platform for scholars and academicians to share their contributions towards the developments focusing on intelligent applications and various system design issues. As an expert, Dr. Sandeep Kumar Panda will be reviewing the submitted papers by researchers, welcoming the delegates, allocating the time for the speakers and resource persons, and building a team of scientific leaders who will potentially transform the world through their pioneering research works.

📋 *Faculty Achievement*

Dr. Anjanna Matta, Assistant Professor, Department of Mathematics, IcfaiTech, Hyderabad has been elected as an Executive Council Member in the Indian Society of Theoretical and Applied Mechanics (ISTAM) for the next three years. ISTAM was established in 1955, with its headquarters at the Indian Institute of Technology, Kharagpur. ISTAM was formed as a common platform for Scientists, Technologists, and Engineers to share and discuss current research work conducted by them individually or in groups and seek solutions to emerging problems of the society. The Society has gone a long way in promoting inter-disciplinary research in Basic Sciences and Applied Mechanics. The Society has specific philosophy to encourage young scientists in the form of awards. As an Executive Council Member, Dr. Anjanna Matta will be participating in various activities for the implementation of the directions and goals of the society.

📋 *Faculty Achievement*

Ms. P. Rohini, Assistant Professor, Department of Data Science and Artificial Intelligence, IcfaiTech, Hyderabad has published a book titled "Image Pattern Recognition: Fundamentals and Applications".
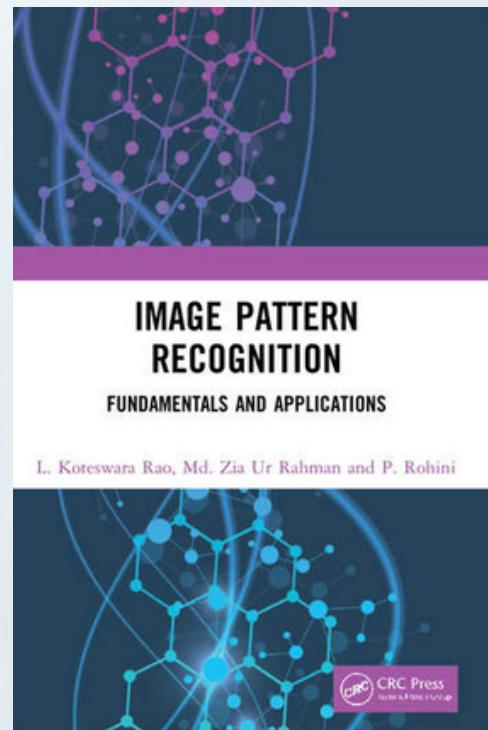
The book describes various types of image patterns for image retrieval. All these patterns are texture dependent. Few image patterns such as Improved directional local extrema patterns, Local Quantized Extrema Patterns, Local Color Oppugnant Quantized Extrema Patterns, and Local Mesh quantized extrema patterns are presented. Inter-relationships among the pixels of an image are used for feature extraction. In contrast to the existing patterns, these patterns focus on the local neighbourhood of pixels to create the feature vector. Evaluation metrics such as precision and recall are calculated after testing with standard databases i.e., Corel-1k, Corel-5k and MIT VisTex database.

📋 *Alumni Meet*

IcfaiTech, Hyderabad is organizing the Alumni Meet for Academic Year 2021-22 on 9th April 2022 (Saturday) within its stimulating campus. To strengthen the relationship with the notable alumni of the Institute, and create an engaging and supportive network, IcfaiTech, Hyderabad is providing a platform for the Alumni to share their experiences of the corporate and entrepreneurial world. This gathering will enable

the Institute to feel proud of the Alumni who are associated with remarkable projects and enterprises across the nation and globe. This meet will also kindle interaction among the professionals on new developments in various domains.

An Alumni meet also fosters dialogue and exchange between old friends and faculty that empowers the students to feel nostalgic and reiterate their graduation days, steering them to unwind, and re-invent themselves. Further, it will be an incredible opportunity for IcfaiTech, Hyderabad to appreciate all the efforts of the students towards the development of our society thus, justifying the years spent by them at this Institution.

📋 *Palindrome This Month*

February 22, 2022, had a special significance. The date can be read the same way, backward and forward. The date is completely reversible and thus, is popular as Palindrome Day. The unique date is also an ambigram, popularly being called the "TWOsday". The date 22/2/22 is falling on the second day of the week (Tuesday) in the second month of the year.

A palindrome is a word, phrase, sentence, or number that reads the same backward or forward. There are only a few dates on the calendar that are numerically very rare. This special line-up for number 2 will take place again after 200 years. The last time a palindrome date took place was on 11 January 2011, i.e. 11/1/11, and the next time it will happen again after 11 years on 3 March 2033, i.e. 3/3/33.

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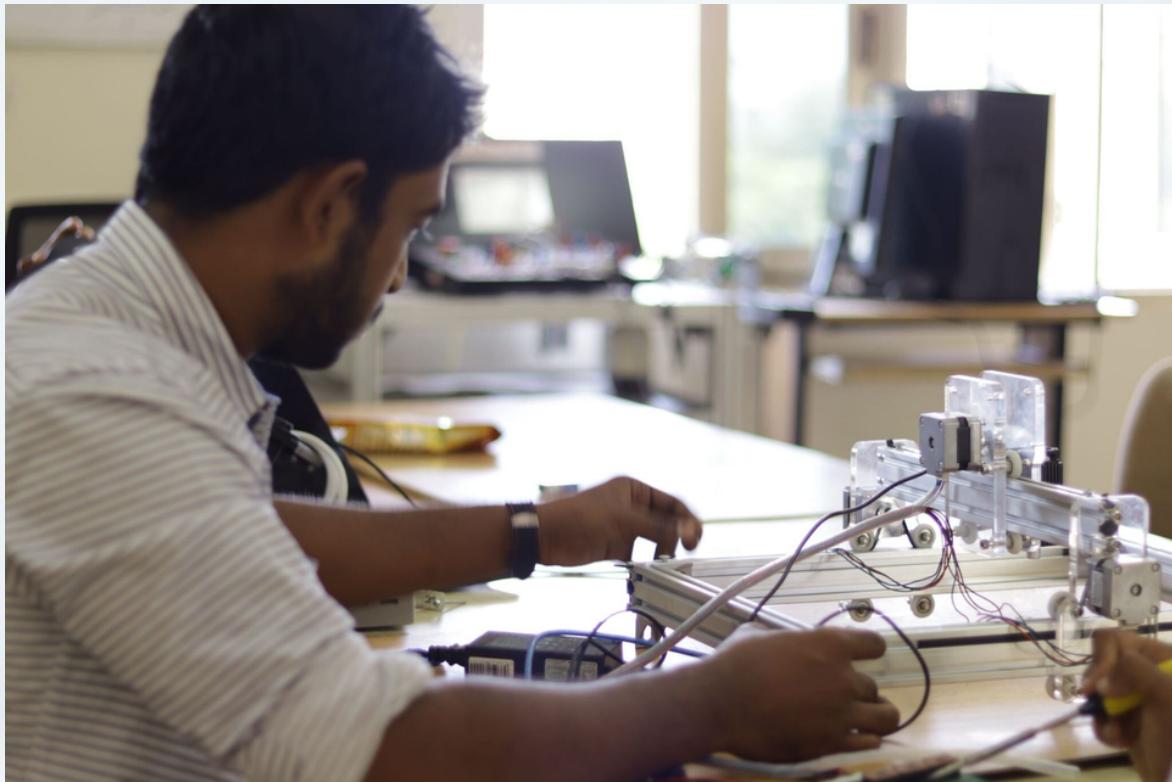
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