



2023 International Conference
on
Computational Intelligence, Networks and Security
(ICCINS-2023)

22nd – 23rd December 2023

Organized by

Lakireddy Bali Reddy College of Engineering (Autonomous)
Mylavaram, AP, India.521230.

Day 1: 22/12/2023

The LBRCE served as the venue for a convocation of erudite scholars, accomplished researchers, and seasoned professionals during the commencement of the International Conference on Computational Intelligence, Networks, and Security (ICCINS-2023) on the 22nd of December, 2023. The inaugural ceremony unfolded within the state-of-the-art confines of the Dr. Sarvepalli Radha Krishnan Auditorium, graced by the distinguished presence of Chief Guests Dr. Buddha Chandrashekar, Chief Coordinating Officer of the All India Council for Technical Education (AICTE), Prof. Venu Govinda Raju from the University at Buffalo, USA, and Dr. Praveen Gauravaram, Senior Scientist at TCS, Australia.

In addition to the aforementioned luminaries, the event was further adorned by the esteemed presence of Prof. Pradip K Das from the Indian Institute of Technology (IIT) Guwahati, Dr. Y. Vijayalata, Chair of the IEEE Hyderabad Section, and Dr. E. Srinivasa Reddy, Chair of the IEEE Guntur Sub-Section, all of whom graced the occasion as Guests of Honour. Notable figures such as the revered Honorary Chairman Sri L. Jaya Prakash Reddy, Chairman Sri. L. Prasad Reddy, President Sri G. Srinivasa Reddy, Principal Dr. K. Appa Rao, Dean of Academics Dr. M. Srinivasa Rao, and General Chair, Dr. D. Veeraiah, also partook in the inaugural session, lending their distinguished presence to the auspicious event.



Inauguration of the conference ICCINS 2023 on 22-12-2023

Brief Conference Report by General Chair Dr. D. Veeraiah

The presiding dignitary, Dr. D. Veeraiah, assumed the podium and articulated that the inception of the ICCINS 2023 Conference signified a historic milestone as the maiden international conference orchestrated by the esteemed departments of Computer Science and Engineering (CSE), Information Technology (IT), and Artificial Intelligence & Data Science (AI&DS) at LBRCE Mylavaram, Andhra Pradesh, India. It is noteworthy that the conference received technical co-sponsorship from both the IEEE Hyderabad and Guntur Subsection.

The venue served as a conduit for the dissemination of cutting-edge research contributions, spanning four distinct tracks:

1. Machine Learning and Computational Intelligence
2. Image Processing and Computer Vision
3. Data Science and Bigdata
4. Computer Networking, Network Security, and Privacy

The conference unfolded over the dates of December 22nd and 23rd, 2023, adopting a hybrid format, with pre-conference tutorials conducted on December 21st. The papers that garnered acceptance and were presented during the conference were earmarked for potential submission to IEEE Xplore for prospective inclusion. The conference attracted a substantial volume of scholarly contributions, with a noteworthy total of 502 submissions originating from 27 diverse countries. Among these nations were India, Australia, China, Iceland, Malaysia, Singapore, Indonesia, Kazakhstan, Pakistan, Sri Lanka, Bangladesh, Japan, Russia, the United States, Bahrain, Botswana, Italy, Libya, Nepal, Nigeria, the United Arab Emirates, the United Kingdom, Syria, Saudi Arabia, Turkey, and various others.



Brief conference report by General Chair Dr. D. Veeraiah

The submissions were judiciously allocated across all tracks, with the Computer Networking and Security track garnering 112 submissions, the Data Science and Big Data track acquiring 31 submissions, the Image Processing and Computer Vision track amassing 106 submissions, and the Machine Learning and Computational Intelligence track securing a substantial 238 submissions.

Given the commendable influx of submissions, the Technical Program Committee (TPC) undertook the onerous responsibility of culling the papers. The TPC meticulously engaged a cadre of over 600 discerning reviewers for a stringent double-blind review process, culminating in the acceptance of a discerning 129 papers spanning all tracks. The resultant acceptance rate stands at an impressive 26%. The track-wise summary of accepted papers is as follows:

Track	Submissions	Accepted	Acceptance rate
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Computer Networking, Network Security and Privacy	125	30	24%
Data Science and Bigdata	31	6	19%
Image Processing and Computer Vision	106	31	29%
Machine Learning and Computational Intelligence	225	62	28%

Accepted papers represented 15 different countries, with varying submission and acceptance percentages.

SNo	Country	Submitted	Accepted	Percentage
1	Australia	0.5	0.5	1
2	Bangladesh	9	8	0.89
3	China	2.75	2	0.73
4	Iran	1.2	1	0.83
5	Italy	2	2	1
6	Japan	0.5	0.5	1
7	Libya	0.4	0.4	1
8	Nigeria	0.2	0.2	1
9	Philippines	1	1	1
10	Russia	0.25	0.25	1
11	Sri Lanka	5.2	0.2	0.04
12	United States	1.68	0.33	0.2
13	India	451.78	112.62	0.25



Brief conference report by General Chair Dr. D. Veeraiiah

A discernible affirmation emerged, particularly from India, with submissions emanating from esteemed institutions such as the Indian Institutes of Technology (IITs), National Institutes of Technology (NITs), Indian Institutes of Information Technology (IIITs), Central Universities,

private universities, and affiliated colleges. Furthermore, there was a notable international participation from renowned universities, including the University of Padova, University of Naples, Kyushu Institute of Technology, Cavite State University, University of the Cumberlands, and the University of the Central Missouri.

In a global context, 63 scholarly papers were officially registered for the conference, featuring the distinguished contribution of 8 foreign nationals. Heartfelt commendations were extended to all the authors for their scholarly contributions, accompanied by an expression of gratitude for their esteemed presence at the event.

Dr. M. Srinivasa Rao, the Dean of Academics, conveyed a profound sense of privilege to be amidst accomplished individuals during the conference. In his address, he underscored the pivotal role of LBRCE as an intellectual nexus dedicated to fostering erudition and innovation. The Dean accentuated the institution's collective commitment to collaborative endeavors, celebration of diversity, and the shared pursuit of academic excellence within the collegiate community.



Welcome address by Dean of Academics Dr.M. Srinivasa Rao

Dr. K. Appa Rao, the Principal, extended a cordial welcome to all participants and researchers, emphasizing the conference's pivotal role as a platform for the exchange of ideas and research findings within the dynamic realms of computer science and engineering. In his address, the Principal acknowledged the evolutionary trajectory of the college, extending congratulations to the organizing departments for their laudable initiative in orchestrating the event. He expressed unwavering confidence that the ensuing two days would unfold as a forum for stimulating technical deliberations and the interchange of ideas among experts and participants.

Furthermore, the Principal voiced the aspiration that the conference would engender not only academic trust but also serve as a wellspring of motivation for burgeoning researchers and students alike.



Welcome address by Principal K Appa Rao

President Sri G. Srinivasa Reddy extended a gracious welcome to the esteemed chief guests present at the event. In his address, emphasis was placed on LBRCE's stature as an engineering institution boasting nine distinct undergraduate branches, with a noteworthy distinction as the singular institution offering an aerospace engineering branch in the Telugu-speaking states. The President underscored this uniqueness as a defining strength of LBRCE.

The achievements of LBRCE were brought to the forefront, particularly in the realms of research and development, where students have exhibited commendable performance. Furthermore, the speech accentuated the pivotal role of conferences as essential platforms for the dissemination of knowledge and the cultivation of continuous improvement.



Welcome address by President G. Srinivasa Reddy

The esteemed Guest of Honour, Prof. Pradip K Das from IIT Guwahati, inaugurated the conference by acknowledging its distinctive presence within the local context. Encouraging the assembled audience to seize the opportunity at hand, the speaker underscored the paramount importance of encountering novel ideas, participating in insightful deliberations, and engaging

in constructive dialogues throughout the duration of the conference. Additionally, expressions of gratitude were extended for the collective efforts invested in organizing the conference, prompting a commendatory round of applause for all those involved.

Emphasizing the collaborative essence inherent in such scholarly endeavors, the speaker employed a metaphorical lens to illustrate the interconnectedness of shared intellectual pursuits. Concluding on an inspirational note, Prof. Pradip K Das conveyed that the triumph and sustained continuity of the conference hinge upon the active participation and continual contributions of each attendee, thereby fostering the prospect of enduring meetings over time.



Addressing the gathering by Guest of Honour Prof. Pradip K Das

Dr. E. Srinivasa Reddy, Chair of the IEEE Guntur Sub-Section and the esteemed Guest of Honour, commenced his address by extending heartfelt congratulations to the management of LBRCE for orchestrating a significant event under the aegis of IEEE. Dr. Reddy underscored the primary objective of IEEE, which is to extend intellectual discourse to regions beyond metropolitan hubs, particularly focusing on areas such as Vijayawada, Guntur, and Krishna districts.

Stressing the significance of such programs, he accentuated their pivotal role in instigating and nurturing the active participation of students in research activities. Concluding with a sagacious piece of guidance, Dr. Reddy emphasized that the quantity of published papers should not take precedence over the quality of the research. He asserted that a solitary impeccably crafted paper holds more intrinsic value than a multitude of publications, urging the audience to prioritize genuine and impactful contributions to the academic domain.



Addressing the gathering by Guest of Honour Dr.E.Srinivasa Reddy Chair, IEEE Guntur Sub-Section

Dr. Y. Vijayalata, Chair of the IEEE Hyderabad Section and esteemed Guest of Honour, conveyed her heartfelt congratulations to the organizing committee members, staff, students, and management for the successful orchestration of a remarkable conference. In her address, she not only acknowledged the inherent challenges posed by the location, where facilities might be comparatively limited, but also commended the concerted efforts that resulted in substantial global participation.

Dr. Vijayalata underscored the pivotal role of IEEE in encouraging professionals to cultivate networks, expressing personal gratitude for the enriching opportunities that networking has afforded. She attributed their collective presence on the stage to the formidable power of networking. Furthermore, she accentuated the vibrancy and visibility of the IEEE Hyderabad section, noting its impactful presence at both the national and Asia Pacific levels, thereby affirming its global influence.



Guest of Honour Dr.Y.Vijayalata Chair, IEEE Hyderabad Section Delivers Address to Gathering

Esteemed guest, Dr. Praveen Gauravaram, Senior Scientist at TCS, Australia, expressed profound pleasure at his presence at LBRCE and initiated his discourse with a couple of salient remarks. Firstly, he extended heartfelt gratitude to each and every organizer for the esteemed invitation to partake in the event, underscoring the pleasure it brought them to be in attendance. Dr. Gauravaram reminisced about the initial contact made in July when he was first approached to be the keynote speaker, highlighting the anticipation and meticulous preparation that preceded the event.

Subsequently, he delved into the crux of his discourse, elucidating on two noteworthy epochs of technological growth over the past century. The first pivot was marked by the inception of the airline industry, and the second by the exponential expansion of the internet, followed by subsequent technological strides. These introductory remarks effectively set the stage for what promises to be a thought-provoking and enlightening discussion on the evolutionary trajectory of technology and its transformative impact across various industries.



Distinguished Guests Dr. Praveen Gauravaram Delivers Address to Gathering

Our esteemed Honorary Chairman, Sri L. Jaya Prakash Reddy, and Chairman, Sri L. Prasad Reddy, conveyed their heartfelt congratulations to the management for the adept organization of the conference in an online mode. They expressed eager anticipation for the invaluable insights and connections expected to transpire during the conference, emphasizing the potential for fruitful intellectual exchanges and collaborations among participants. Additionally, they extended sincere gratitude to the keynote speakers for their virtual participation and for generously sharing their insights with our institution.

Our honorable Chairman, Sri L. Prasad Reddy, reiterated their commendations to the management for the seamless execution of the conference in an online format. He conveyed confidence that the ensuing two days would be marked by exhilarating technical deliberations and the dynamic exchange of ideas among both experts and participants. Furthermore, he extended heartfelt thanks to the keynote speakers for their virtual engagement, appreciating

their significant contributions to our college.



***Honorary Chairman Sri L. Jaya Prakash Reddy and Chairman Sri L. Prasad Reddy
Deliver Online Addresses***

In his inaugural address, Chief Guest Dr. Buddha Chandrashekar articulated that "research serves as the cornerstone of innovation, and everyone ought to engage in research, even on modest scales, contributing to the betterment of our society." He emphasized the significance of not delving too deeply into intricate subjects, but rather exploring small aspects that could yield meaningful impacts. Dr. Chandrashekar highlighted the initiatives of Prime Minister Narendra Modi, who is facilitating various funding avenues for budding researchers in critical areas of focus.

Furthermore, the speech underscored the pivotal role of conferences as platforms for the dissemination of knowledge and the cultivation of continuous improvement. Dr. Chandrashekar emphasized the importance of such programs in kindling the motivation of students, encouraging their active participation in research endeavors. He urged all participants to immerse themselves in these programs, recognizing them as invaluable opportunities for the exchange of knowledge and ongoing intellectual enrichment.



Addressing the gathering by Distinguished Guests Dr.Buddha Chandrasekhar Chief Coordinating Officer AICTE,NewDelhi



Eminent speech by Dr. Buddha Chandrasekhar garu Distinguished guests of ICCINS 2023

Conference proceedings Release

Following the captivating speech by the chief guest, all abstracts of the registered papers were generously provided to the assembled guests and participants in the form of comprehensive proceedings. The inaugural release of the hardcopy proceedings was orchestrated by the esteemed Chief Guest, Dr. Buddha Chandrashekar, who ceremoniously presented the first copy to President Sri G Srinivasa Reddy. Every dignitary on the dais was then presented with

a hard copy of the proceedings, affording them an insightful view of all the abstracts encapsulated within the compendium.



Releasing the Conference Proceedings of ICCINS 2023



Unveiling ICCINS 2023 Conference Proceedings

Felicitations and Vote of Thanks

The distinguished personalities on the dais marked the initiation of the release of the official conference proceedings of ICCINS 2023 by extending heartfelt acknowledgment to the collective effort and unwavering dedication of all the authors, reviewers, and organizers. This

poignant gesture served to underscore the collaborative spirit that permeated the entire process, reflecting a profound appreciation for the combined efforts invested in organizing and presenting the conference.

Subsequently, a felicitation ceremony ensued, wherein Prof. Pradip K Das, Dr. E. Srinivasa Reddy, and Dr. Y. Vijayalata were honored. President Sri G. Srinivasa Reddy, Principal Dr. K. Appa Rao, Dean of Academics Dr. M. Srinivasa Rao, and General Chair, Dr. D. Veeraiah, collectively extended their commendations during this ceremonious recognition.

The culmination of the event featured a gracious vote of thanks delivered by General Co-chair Dr. B. Srinivasa Rao, Professor and Head of the Department of IT. He expressed gratitude to each and every participant for their active involvement in the conference, thereby contributing to its success.



Felicitating the Chief Guest Dr. Buddha Chandrasekhar



Felicitating the Distinguished Guests and guests of Honour of ICCINS -2023

Keynote Talk 1

Topic: Artificial Intelligence in Education

Resource Person: Prof.Venu Govinda Raju, vice president for research and economic development, University at Buffalo,USA

The inaugural day of the ICCINS 2023 conference commenced with the keynote address delivered by Prof. Venu Govinda Raju, focusing on the theme "Artificial Intelligence in Education." The lecture presented a profound exploration of the burgeoning concept of "exceptional education," primarily directed towards meeting the educational requirements of children encountering diverse challenges. At the core of the presentation was a pivotal project centered around the integration of Artificial Intelligence (AI) in exceptional education, with a distinct emphasis on ameliorating speech and language communication disabilities.



Prof.Venu Govinda Raju Delivers a Keynote Session on “AI in education”

The speaker underscored the surging popularity of Artificial Intelligence (AI) in contemporary times, dispelling misconceptions about its potential harm and accentuating its affirmative applications, particularly in the realm of social welfare. The presentation provided a succinct historical overview of AI, drew comparisons between AI and human performance, surveyed existing AI institutes, and scrutinized the intricacies of learning within the specific domain of exceptional education.

A substantial segment of the lecture was dedicated to elucidating the pivotal role of AI in addressing speech and language-related disorders, shedding light on the intricate challenges associated with these impairments. The speaker adeptly articulated how AI technologies could proffer solutions to surmount these challenges, fostering a nuanced understanding of the potential benefits and applications in the field of exceptional education. The presentation culminated in a thoughtful exploration of the ways in which AI could contribute to alleviating the obstacles faced by individuals with speech and language impairments.

The talk garnered active participation from attendees and numerous delegates, who found it engaging, informative, and comprehensible. Following the conclusion of the keynote address, the Principal, Dr. K. Appa Rao, the Dean of Academics, Dr. M. Srinivasa Rao, and the General Chair, Dr. D. Veeraiyah, extended felicitations to the esteemed resource person, presenting him with a shawl and memento as tokens of appreciation for his invaluable knowledge sharing and support to the conference.

Keynote Talk 2

Topic: Towards a Cyber-Resilient Society: Collaborative Strategies

Resource Person: Dr.Praveen Gauravaram, Research&Innovation, TCS, Austrila

The post-lunch session of day two commenced with an Invited talk by Dr. Praveen Gauravaram, focusing on the theme "Towards a Cyber-Resilient Society: Collaborative Strategies."

The lecture provided a comprehensive overview of Optus, the largest telecommunications services provider in Australia. The presentation commenced by elucidating the profound impact of Optus on the telecommunications landscape of the country, with a specific emphasis on addressing critical aspects like privacy breaches. Particularly noteworthy was the detailed exploration of the aftermath of an Optus privacy breach, delving into the initiation of investigations aimed at assessing the ramifications on the public and investigating potential consequences stemming from the initial data breach.

A substantial segment of the presentation was dedicated to a meticulous discussion on cyber outbreaks and the associated responsibilities. Dr. Gauravaram outlined Australia's national-level cybersecurity strategy, implemented in 2016, underscoring key initiatives such as the Cyber Security Growth Centre and the Academia-Industry-Government: Research and Innovation program.



Dr.Praveen Gauravaram Delivers a Keynote Session on "Towards a Cyber-Resilient Society"

The lecture seamlessly progressed to present a detailed timeline of growth, meticulously outlining the establishment and evolution of the Cyber Security Cooperative Research Centre (CSCRC) consortium. The lecture delved into the elucidation of the Cyber Security CRC's objectives, offering an insightful overview of its research programs and thematic areas. Additionally, the speaker touched upon select TCS R&D projects, providing an overview of the strategic approach employed to develop solutions in the cybersecurity domain.

A comprehensive case study on "Smart Airport" was intricately presented, showcasing practical applications and tangible outcomes. The lecture culminated by introducing RAAISE (Robust Authentication using Ambient Intelligence in Smart Environment) as an innovative approach

contributing to the broader landscape of cybersecurity research and development. The holistic coverage of Optus, cybersecurity strategies, and research initiatives equipped the audience with valuable insights into the evolving panorama of telecommunications and cybersecurity in Australia.

Active participation from participants and numerous delegates attested to the engaging, informative, and comprehensible nature of the talk. Following the keynote address, the Principal, Dr. K. Appa Rao, the Dean of Academics, Dr. M. Srinivasa Rao, and the General Chair, Dr. D. Veeraiah, extended their felicitations to the esteemed resource person, presenting him with a shawl and memento in appreciation of his invaluable knowledge sharing and support to the conference.

Parallel Sessions

Totally there are four parallel sessions in the conference they are organized at four different venues. Each session covers papers from four different tracks. At the time of 3:30 PM on the day one, a total of thirty two papers, eight papers per each track are presented in both online and offline. Presenters from different parts of the globe like India, China, Bangladesh have presented the papers. Each session in parallel sessions are organized by two session chairs one external from premier institute and one internal from our organization.

Parallel sessions were conducted to facilitate the presentation of recent research contributions across four distinct tracks during the conference. Each track is associated with one external session chair, Internal session chair and student volunteers to facilitate the presenters.

Track 1: Machine Learning and Computational Intelligence:

Venue: Computational Intelligence Lab, Ground Floor, Admin Block.

External Chair: Dr. Shrishendu Das, IIT Hyderabad

Internal Chair: Dr. D. Venkata Subbaiah

Track 2: Image Processing and Computer Vision:

Venue: Database Innovation Lab, Ground Floor, Admin Block.

External Chair: Dr. S. Chiranjeevi, RGUKT Nuzvid

Internal Chair: Dr. K. Naga Prasanthi

Track 3: Data Science and Bigdata:

Venue: Data Science Lab, First Floor, Admin Block

External Chair: Dr. Babu Reddy, Krishna University

Internal Chair: Dr. S. Naganjaneyulu

Track 4: Computer Networking, Network Security, and Privacy:

Venue: Committee Room, Ground Floor, Admin Block

External Chair: Dr. E. Suresh Babu, NIT Warangal

Internal Chair: Dr. Ch. Venkata Narayana

The external and internal chairs for each track played crucial roles in overseeing and facilitating the discussions, ensuring the success of the parallel sessions. The diverse expertise brought by the chairs from esteemed institutions added significant value to the conference, allowing for a comprehensive exploration of research in the respective fields. On the first day of the conference a total of 31 papers are presented in four tracks.

Day 2: 23/12/2023

Keynote Talk 3

Topic: Beyond AI Models: Integrating Human Expertise with AI for Improved Performance

Resource Person: Dr. Shashi Shekhar Jha, Professor, IIT Ropar

The second day of the conference ICCINS 2023 have started with the keynote talk by **Dr. Shashi Shekhar Jha** on the topic *“Beyond AI Models: Integrating Human Expertise with AI for Improved Performance”*. It was an excellent presentation with covering all key points and details in Human Artificial Intelligence Models. Different topics like Combining predictions, combining single human predictions with AI Model, ComHAI, Subset Selection of Humans, Human assisted decision making related to Human and AI integration are discussed.



Dr. Shashi Shekhar Jha Delivers a Keynote Session on “Integrating Human Expertise with AI for Improved Performance”

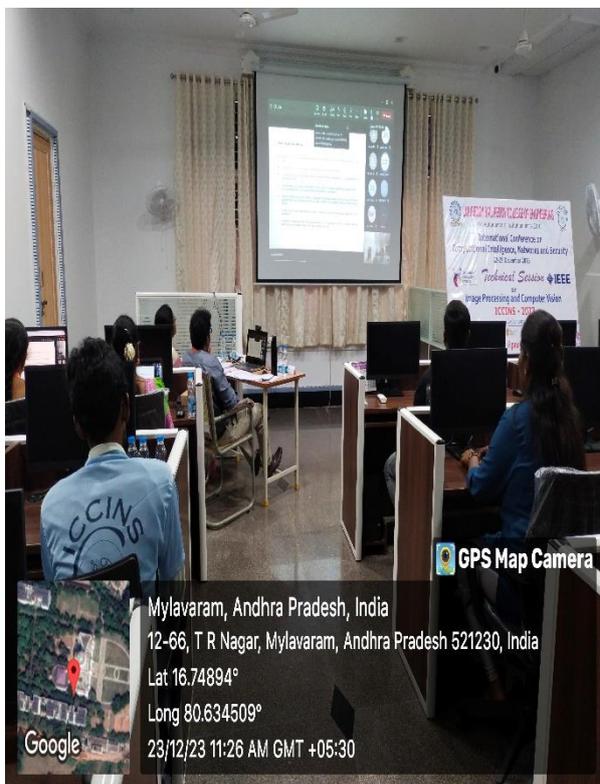
Real life Examples discussed in the talk made it an effective presentation. Participants and many delegates have attended the talk as it was engaging, informative and understandable. After the keynote talk was done. The Principal Dr K Appa Rao, Dean Academics Dr M Srinivasa Rao and General Chair Dr D Veeraiah have felicitated the resource person with shall and memento for his knowledge sharing and support to the conference.



Dr. Shashi Shekhar Jha Delivers a Keynote Session on “Integrating Human Expertise with AI for Improved Performance”

Parallel Sessions

Totally there are four parallel sessions in the conference they are organized at four different venues. Each session covers papers from four different tracks. In the first half of the day two a total of twenty-four papers, six papers per each track are presented in both online and offline. Presenters from different parts of the globe like India, China, Japan have presented the papers. Each session in parallel sessions are organized by two session chairs one external from premier institute and one internal from our organization.



Parallel Sessions in Various Tracks of ICCINS-2023

Invited Talk

Topic: Envisioning Future Smart Health Technology

Resource Person: Dr. Nazmus Shakib, Kennesaw State University, USA

Post lunch session of day two started with the Invited talk by Dr. Nazmus Shakib in online mode on the topic **“Envisioning Future Smart Health Technology”**. The invited talk has provided many insights in the context of smart health monitoring. The talk covered many concepts like Evidence based Intervention Strategies, Data-Driven Sepsis Monitoring and Intervention, BEAT- Blockchain Enabled Application for Telehealth.

BEAT has been most important topic of the talk. It provides security to all the health documents are secured in a file which is stored as a transaction in a Blockchain. The talk was an excellent presentation with covering all key points and details in Smart Health Technology.

Participants and many delegates have attended the talk as it was engaging, informative and understandable. After the keynote talk was done. The Principal Dr K Appa Rao, Dean Academics Dr M Srinivasa Rao and General Chair Dr D Veeraiah have felicitated the resource person with digital memento for his knowledge sharing and support to the conference.



Dr. Nazmus Shakib delivers a session in Virtual Mode on “Envisioning Future Smart Health Technology”

Parallel Sessions

Totally there are four parallel sessions in the conference they are organized at four different venues. Each session covers papers from four different tracks. In the second half of the day two a total of Sixteen papers, four papers per each track are presented in both online and offline. Presenters from different parts of the globe like India, China, Bangladesh have presented the papers. Each session in parallel sessions are organized by two session chairs one external from premier institute and one internal from our organization.



Parallel Sessions in Various Tracks of ICCINS-2023

Valedictory

The Two Day International Conference ICCINS 2023 came to an end. The stage is set for the valedictory of the conference. The valedictory function has started by inviting guests on to the dais. TPC Chair Dr. M. Sitha Ram, Organizing Chair Dr. P. Bhagath, General Co-Chairs Dr. O Rama Devi and Dr B Srinivasa Rao, General Chair Dr D Veeraiah, Dean of Academics, Dr. M. Srinivasa Rao, Principal, Dr. K. Appa Rao, President of LBRCT Mr G Srinivasa Rao have graced the stage along the Chief Guest Dr P K Das, IIT Gauwhati.



Valedictory of the conference ICCINS-2023

General Co-chair Dr O Rama Devi presented the end report of the conference. She said the conference has started with pre conference Tutorials on 21st December two tutorials are handled by Dr. Tushar and Mr Nahar. Day one of the conference has two Keynote by Prof V Govindaraju and Dr Praveen G on Artificial Intelligence and Cybersecurity. Totally 31 papers are presented in four parallel sessions in four different tracks. Day two of the conference has covered one keynote and Invited talk by Dr Sashi Sehkar Jha and Dr Nazmus Shakib on Beyond AI models and Envisioning Future Smart Health Technology. Totally 31 papers are presented in four parallel sessions in four different tracks.



General Co-chair Dr O Rama Devi presented the end report of the conference

Our principal Dr K Appa rao has congratulated all the team of ICCINS and departments of CSE, IT, AI&DS for successful completion of the conference. Thanked all the resource persons and external session chairs for spending their valuable time. He said conducting these type of conferences will enhance the knowledge of faculty and students.



Principal Dr. K Appa Rao, Congratulating the conference committee

Our President Mr G Srinivasa Rao spoken few words at the end of the conference. He said the conference was a big success with help of all the Speakers, Session Chairs and Participants. Finally he added that the conference would not been a great one without the support from student volunteers.



President Sri. G. Srinivasa Rao, Congratulating the conference committee & Volunteers

Chief guest of the function Dr P K Das has said the conference ICCNS 2023 was an informative and knowledge sharing one. The Keynote and Invited talks were from different emerging areas, which laid a good foundation for the conference. He added that organizing a conference is not a small task and must have so much courage to conduct at this remote area. He added that research is not about publishing a paper but making out to find new things (re-search).



Chief Guest Dr.P.K.Das Delivering speech in Valedictory of ICCNS 2023

Organizing chair Dr P Bhagath has presented vote of thanks, he thanked Management, President, Principal, Chief Guests, and Participants for making this event a grand success globally. He thanked Publicity committee chairs Dr. Y.V. Bhaskar Reddy & Mr A Sudhakar for publicizing broadly about the conference at global level which helped to bag huge number of submissions. He thanked the TPC team for handling the reviews and submissions without any complexity. He thanked Finance chairs for handling all the finance related issues smoothly. Finally, he thanked all the student volunteers who rendered their service to conference for past three days.



Organizing chair Dr P Bhagath presenting Vote of Thanks

All the dignitaries on the dais felicitated chief guest of the valedictory with Shall and memento.



Felicitating Chief Guest Dr P K Das for his Support to the Conference



2023 International Conference on Computational Intelligence, Networks and Security, Organizing committee



2023 International Conference on Computational Intelligence, Networks and Security, Student Volunteers committee

Concluding remarks

The inaugural International Conference on Computational Intelligence, Networks, and Security (ICCINS-2023) was meticulously organized by Lakireddy Bali Reddy College of Engineering. The collaborative efforts of the departments of Computer Science and Engineering (CSE), Information Technology (IT), and Artificial Intelligence & Data Science (AI&DS) were fortified by the esteemed technical Co-Sponsorship from IEEE Hyderabad & Guntur Sub Section. The conference, conducted on the 22nd and 23rd of December 2023 in a Hybrid Mode, featured enlightening Pre-Conference Tutorials on the 21st of December.

A total of 502 submissions were received from 27 diverse countries, encompassing nations like India, China, USA, Russia, Japan, Bangladesh, Syria, Singapore, Malaysia, Indonesia, and others. The thorough review process, conducted in a double-blind fashion with the involvement of over 600 reviewers, resulted in the acceptance of 129 papers from all tracks, boasting an acceptance rate of 26%. Impressively, 63 papers were registered for the conference, featuring 8 contributions from foreign nationals.

Out of the registered papers, 8 were presented offline, while the remainder were presented online. The presentations spanned various emerging technologies, including Deep Learning, Blockchain Technology, Internet of Things, Privacy Preserving, and Cyber Security. The sessions unveiled cutting-edge technologies and concepts, providing valuable insights for participants, faculty, and students into ongoing research endeavors.

Noteworthy presentations included the introduction of a Context Change Detection System (CCDS) designed to identify heterogeneous attacks on the Edge of Things (EoT). The CCDS framework addressed the vulnerabilities of EoT to time-bound, multi-vector Botnet attacks, emphasizing the importance of intrusion detection in the current research scenario.

In the realm of video surveillance, presentations focused on person re-identification, utilizing deep learning systems such as Recurrent Neural Networks, Convolutional Neural Networks, and Generational Adversarial Networks. These insights equipped attendees with knowledge applicable to intelligent video surveillance systems.

The conference also featured a presentation on a Medical Monitoring System (MM system) leveraging wireless sensor networks. The system employed a robust authentication protocol, combining block chain technology and Physically Unclonable Function (PUF) concepts, ensuring secure communication between patients and medical representatives.

Inclusive of tutorials, keynote addresses, invited talks, and paper presentations, the conference comprehensively covered current, emerging, and cutting-edge technologies in the field of computer science. Attendees, including students, participants, and faculty, were introduced to a plethora of new concepts and technologies, fostering an environment conducive to research advancement and knowledge enhancement. The conference successfully realized its intended mission, serving as a platform for fruitful exploration and collaboration in the dynamic realms of computational intelligence, networks, and security.

Pre-Conference Tutorials

First International Conference on Computational Intelligence, Networks and Security (ICCINS 2023)

21/12/2023

Inaugural Section

The Pre Conference Tutorials of ICCINS 2023 Started at 9:30 AM, The stage is set for the Inaugural Section of the Pre-Conference. The Inaugural has started by inviting guests on to the dais. Tutorial Chair's Dr. Somala Jayaprada & Dr AVN Reddy, Tutorial Speakers Mr. Nahar Singh and Dr. Tushar Semwal, Dean R&D Dr. Seelam Pichi Reddy, Principal, Dr. K. Appa Rao and Chief Guest Vice Principal Dr.K.Harinadha Reddy

Dr. Somala Jayaprada: In her opening remarks, Dr. Somala Jayaprada highlighted the crucial role of pre-conference tutorials in today's academic landscape. By exploring into advanced concepts, these sessions equip participants with the knowledge and skills to excel in their fields.

Dr. Seelam Pichi Reddy: Expanding on the theme, Dr. Seelam Pichi Reddy emphasized the significance of conference participation and publication in career development. Through exposure to cutting-edge research and the opportunity to share your own work, you gain valuable insights and improve your skills, leading to stronger projects and publications in the future.

Dr. K. Harinadha Reddy: Underscoring the practical benefits, Dr. K. Harinadha Reddy stressed the value of tutorials in staying up-to-date of the latest advancements in various technological fields. This knowledge empowers you to write impactful papers on current technologies, driving your career forward.

Dr. K. Appa Rao: In conclusion, Principal Dr. K. Appa Rao mentioned the informative nature of the tutorials, emphasizing their value for both students and faculty alike. By providing insights into contemporary technological .



Inaugural Session of the Pre Conference Tutorials on 21/12/2023

Tutorial 1

Topic: Generative AI

Resource Person: Mr. Nahar Singh Chief AI/ML Manager, Continental, Bengaluru

The First day of the conference ICCINS 2023 have started with the keynote talk by **Mr. Nahar Singh** on the topic “Generative AI and explores the role of large language models in industry now and in future”. It was an excellent presentation with covering all key points and details about the Includes hands-on demonstrations of generative AI in computer vision using DALLE and Stable Diffusion, Offers hands-on activities with large language models like GPT-4 and PaLM-E, Opportunity to delve into the world of Generative AI and discover potential applications.



Tutorial session on Generative AI by Mr. Nahar Singh

Real life Examples discussed in the talk made it an effective presentation. Participants and many delegates have attended the talk as it was engaging, informative and understandable. After the Tutorial is done. The General Co Chairs Dr O Ramadevi & Dr B Srinivasa Rao, Organizing Chair Dr P Bhagath, Tutorial Chair's Dr. Somala Jayaprada & Dr AVN Reddy have felicitated the resource person with shall and memento for his knowledge sharing and support to the conference.



Felicitation to the tutorial speaker Mr. Nahar Singh

Tutorial 2

Topic: Graph Learning

Resource Person: Dr. Tushar Semwal, Senior Applied Scientist, Microsoft, India.

The First day of the conference, ICCINS 2023 have started with the keynote talk by Dr. Tushar Semwal on the topic “Graph Learning”. The invited talk has provided ma insights in the context of graph learning and how it differs from traditional data analysis. Explain foundational graph concepts like nodes, edges and their role in capturing complex relationships, Discuss practical enterprise applications of knowledge graphs for transforming data silos into interconnected knowledge networks, Delve into specialized algorithms and techniques for extracting valuable information from vast interconnected datasets in knowledge graphs.



Tutorial Session on Graph Learning by Dr. Tushar Semwal

Participants and many delegates have attended the talk as it was engaging, informative and understandable. After the keynote talk was done. The General Co Chairs Dr O Ramadevi & Dr B Srinivasa Rao, Organizing Chair Dr P Bhagath, Tutorial Chair's Dr. Somala Jayaprada & Dr AVN Reddy have felicitated the resource person with shall and memento for his knowledge sharing and support to the conference.



Felicitation to Tutorial Speaker Dr. Tushar Semwal

**Sd/-
General Chair
ICCINS 2023**