

5th International Conference

On

“Emerging Technologies in Computer Engineering:
Cognitive Computing and Intelligent IoT”

(ICETCE-2022)

04th-05th February, 2022

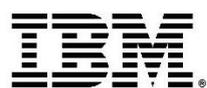
RTU Recognized Centre of Excellence (CoE)

“INTERNET OF THINGS”

PUBLICATION PARTNER: Springer CCIS Series (Scopus Indexed)

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CONFERENCE REPORT

Organized By:

IOT-RC (Centre of Excellence)

**Department of Computer Science & Engineering & Department of Department of
Department of Information Technology (NBA Accredited)**

Swami Keshvanand Institute of Technology, Management & Gramothan, Jagatpura, Jaipur-

302019 Telephone: 0141-3500300 (Ext. 286, 284, 213), Fax: 014-2759555

Website: www.icetce.skit.ac.in/2022

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| Prof. Seeram Ramakrishna, Vice President Research Strategy, Professor, Faculty of Engineering National University of Singapore (NUS), Singapore. | <ol style="list-style-type: none"> 1. Prof. (Dr.) Valentina E. Balas, "Aurel Vlaicu" University of Arad, Romania. 2. Prof. (Dr.) G. R. Sinha, MIT Mandalay, Myanmar. 3. Dr. Basant Agarwal, Indian Institute of Information Technology Kota (IIIT Kota), India. 4. Prof. (Dr.) Tarun Kumar Sharma, Dean, Shobhit University, Gangoh, Saharanpur, India 5. Dr. Pankaj Dadheech, Associate Professor (CSE), SKIT, India 6. Dr. Mehul Mahrishi, Associate Professor (IT) SKIT, Jaipur | Prof. (Dr.) Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA. | Prof. (Dr.) Mukesh Kumar Gupta, Professor & Head, Department of Computer Science & Engineering, SKIT, Jaipur | <p>Prof. (Dr.) Anil Chaudhary, IEEE SM: 90508967 , Head, Department of Information Technology, SKIT</p> <p>Dr. C. M. Choudhary, Professor, Department of Computer Science & Engineering, SKIT</p> |

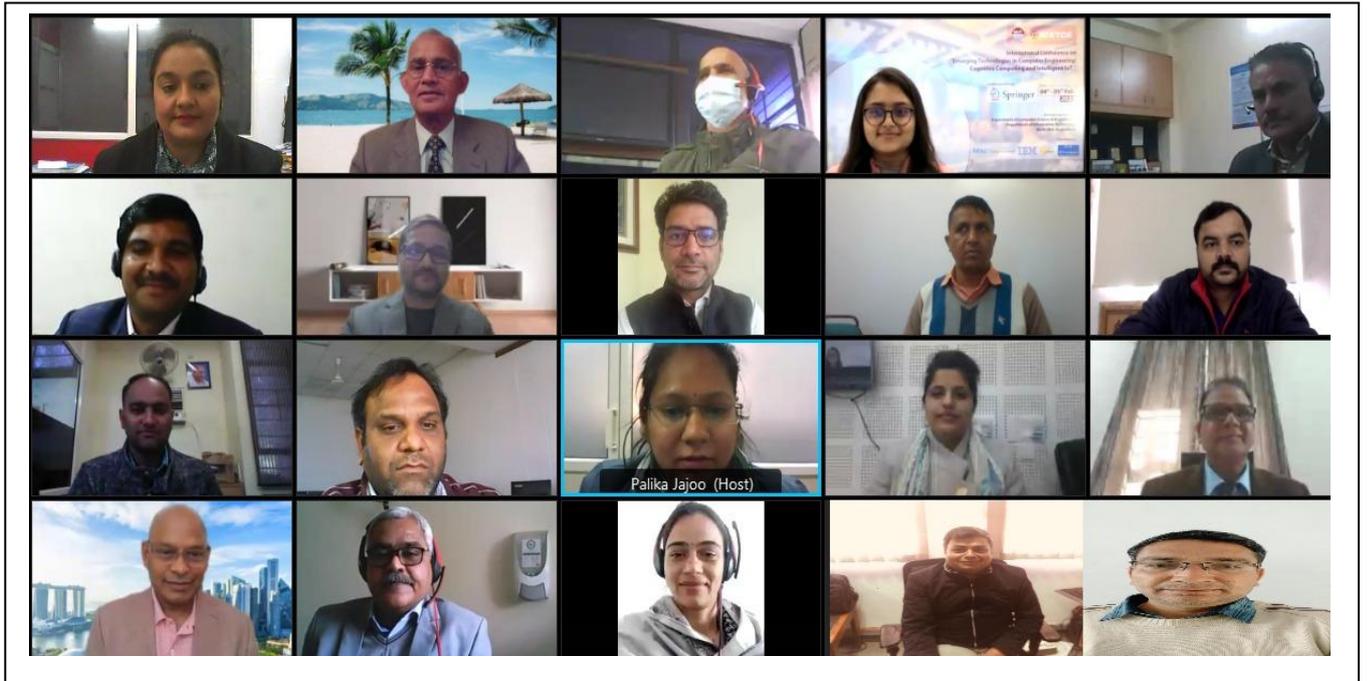
| | AUTHOR/OWNER | REVIEWED BY | APPROVED BY |
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| DESIGNATION | SECRETARY | COORDINATOR | CONVENER |

E-mail: icetce@skit.ac.in, Website: <https://icetce.skit.ac.in/2022>

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GLIMPSES OF ICETCE-2022



meet.google.com/hjw-tcr-0fg?authuser=0&pli=1

Sumit Srivastava is presenting

State of Technology, Management & Gramothan, Jaipur

ICETCE

ROAD CRASHES IN RAJASTHAN WITH DETAILED ANALYSIS OF JAIPUR DISTRICT

| Rank | State | % Share | Killed |
|------|----------------|---------|--------|
| 1 | Uttar Pradesh | 15.0 | 22655 |
| 2 | Maharashtra | 8.5 | 12788 |
| 3 | Madhya Pradesh | 7.4 | 11249 |
| 4 | Karnataka | 7.3 | 10958 |
| 5 | Rajasthan | 7.0 | 10563 |
| 6 | Tamil Nadu | 7.0 | 10525 |
| 7 | Andhra Pradesh | 5.3 | 7984 |
| 8 | Gujarat | 4.9 | 7390 |
| 9 | Bihar | 4.8 | 7205 |
| 10 | Telangana | 4.6 | 6964 |

Table 4 Percentage Share of Fatalities During Year 2019. Source: Transport Department, Rajasthan

Fig. Road Accidents and Injuries in Rajasthan (2015 - 2019) Source: Transport Department

Fig. Persons Killed in Road Accidents in Rajasthan (2015-2019) Source: Transport Department

10:40 AM | hjw-tcr-0fg

Track 2 ML and Ap...pdf

10:40 04-02-2022

meet.google.com/kwm-evrc-yfs

Dr.Chitra Desai is presenting

Data Pre-processing

- There are no null values in the dataset.
- There are 90 duplicate values in the dataset.
- The duplicate values are dropped and the number of instances is reduced to 1696 instances.
- The dataset as mentioned earlier consists of 2 columns - text and label.
- In this dataset, the label is our target variable.
- The target variable consists of four unique classes - The value count across each class is - accounts is 284, biology is 595, geography is 93, physics is 724 as shown in the figure.
- It is observed the data is highly imbalanced.

11:50 AM | kwm-evrc-yfs

People

Add people

Search for people

In call

- Sunita Gupta (You)
- Ab Basit Ahanger
- Anjali Pandey
- Anjali Pandey
- Ashish Pant
- Dolly Mittal
- Dr. Neha Janu

meet.google.com/pes-gkhg-esu?pli=1&authuser=1

Arun Somani is presenting

Neural Architecture Search: A Hardware Perspective*

Arun K. Somani
Distinguished Professor of Electrical and Computer Engineering

Associate Dean for Research, College of Engineering
Philip and Virginia Sprout Professor
Iowa State University, Ames, IA, USA

*This work is based on PhD dissertation of Mr. Krishna Teja Chitty-Venkata. These slides are copyrighted. If used for any purpose, they should be acknowledged/referenced as below. Arun K. Somani and Krishna Teja Chitty-Venkata. "Neural Architecture Search: A Hardware Perspective." A talk delivered as part of Confluence-22 Conference held at Amity University Uttar Pradesh, Jan 27, 2022.

9:01 AM | Track-4: cognitive Computing

People

Mute all Add people Host controls

Search for people

In call

- Dolly Mittal (You) Meeting host
- Arun Somani
- Arun Somani Presentation
- Deepa Modi
- Diwakar Sharma

material - rastogi.rish@gmail.com x Meet - yov-xanf-yfm x x +

meet.google.com/yov-xanf-yfm?pli=1

sunil kumar is presenting

Algorithm 2

Algorithm 2 Mining

Input: PD: Partition Database, M-U:Minimum Utility, M-P:Minimum Probability
Output: PHUI's at a worker node

- 1: Create PU-list for each item
- 2: **for all** item in PU-list **do**
- 3: **if** Utility(item) \geq M-U and Pro(item) \geq M-P **then**
- 4: PHUI \leftarrow item
- 5: **end if**
- 6: **end for**
- 7: Generate projected dataset
- 8: Mining(itemset, PU-list, projected dataset, M-U, M-P)

Presented By: Sunil Kumar (Central University of Rajasthan) ICETCE February 3, 2022 06:25

09:32 | yov-xanf-yfm

sunil kumar, Priyanka Sharma, Dr. Krishna K..., Vinod Kataria, Khongdet Pha..., Nikhar Bhatnag..., Sunil Dhankhar, 10 others, You

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meet.google.com/sry-trhj-xpa

Sukhwinder Sharma is presenting

Paper ID: 068

SKIT Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

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Penetration Testing Framework (PTF):

- **Generalized Deterministic Environment** having set of input output parameters
- Mixture of well-known benchmarked network parameters
 - a) **radio model** considered for deciding how the energy dissipation will be calculated based on the node deployment and data transmission in the network,
 - b) **network model** indicating the physical parameters about the network size, number of nodes and types, their placement along with that of the sink node,
 - c) **performance metrics**, and
 - d) **simulation setup**

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10:37 AM | sry-trhj-xpa

Sukhwinder Sh..., Khongdet Pha..., Rubal Deep Gill, Pawan Jangir, Pravin Kshirsag..., Dr. Pankaj Dad..., Rajiv Singh, 16 others, You

10:37 AM 2/5/2022

OVERVIEW OF ICETCE-2022

1. Introduction:

First National Conference started in 2011. This conference aims to provide a stage for expert technical exchanges and exhibition regarding the advanced technologies, equipments, techniques, and innovations applied in the field of Computer Engineering.

It has attracted government officials, multinational experts, managers, researchers and technocrats in a relevant field to discuss together their ideas and experiences.

First International Conference started in 2018. The Organizing Committee of 5th International Conference ICETCE-2022, with its utmost sincerity, intends to invite all the related experts and scholars worldwide to attend the Conference and to realize the most extensive exchanges and discussion in this field.

Vision

“To contribute to the Research Community through excellence in scientific and technical research; to serve as a valuable resource, platform for industry and society; and remain a source of pride for researchers.”

Mission

“To advance the state of the art in Computer Engineering and to bring those advances in benefit of Society’s businesses.”

5th INTERNATIONAL CONFERENCE

2. Two Days International Conference on “Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT” (ICETCE-2022). (04th -05th Feb. 2022).

INAUGURAL CEREMONY

CONFERENCE CHAIR - Prof. (Dr.) Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.

GENERAL CHAIR - Prof. Seeram Ramakrishna, Vice President Research Strategy, Professor, Faculty of Engineering National University of Singapore (NUS), Singapore.

CHIEF GUEST - Prof. (Dr.) R. A. Gupta, Hon'ble Vice-Chancellor, Rajasthan Technical University, Kota

GUEST OF HONOUR – Dr. Mani Madhukar, Program Manager, Global University Programs, IBM Research

INAUGURATION

The inaugural ceremony on the first day of the 5th International Conference on “Emerging Technologies in Computer Engineering: Cognitive Computing and Intelligent IoT”

At the start, Welcome Note given by Prof. (Dr). S. L. Surana - Director (Academics), SKIT, Jaipur then the Journey of ICETCE presented by Prof. (Dr.) Arun K. Somani, Conference Chair, followed by Conference Introductory Speech by Prof. (Dr.) Anil Chaudhary, Organizing Chair, ICETCE-2022. Motivational Talks were given by Chief Guest Prof. (Dr.) R. A. Gupta, Hon'ble Vice-Chancellor, Rajasthan Technical University, Kota, Guest of Honor Dr. Mani Madhukar, and Prof. Seeram Ramakrishna, General Chair, ICETCE-2022. At the end of the inaugural, a Vote of Thanks was given by Prof. (Dr.) C. M. Choudhary, Organizing Chair, ICETCE-2022. With a focus on the health of the research environment and of the research literature, the theme of the Conference is Cognitive Computing and Intelligent IoT.

PLENARY TALKS

Plenary Talk-I on the topic ‘How to Optimize ROI’ was given by Conference Chair- Prof. (Dr.) Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.

Plenary Talk-II on the topic ‘Lessons via COVID19 Lens’ was given by General Chair- Prof. Seeram Ramakrishna, Vice President Research Strategy, Professor, Faculty of Engineering National University of Singapore (NUS), Singapore.

Track-1

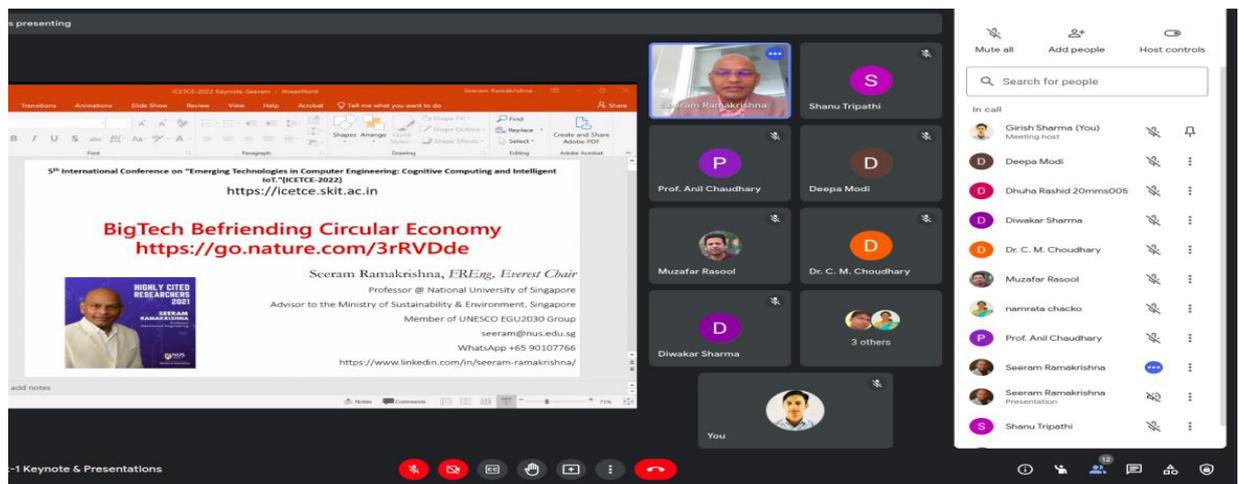
Track-1: Internet of Things (IoT)

Keynote Session

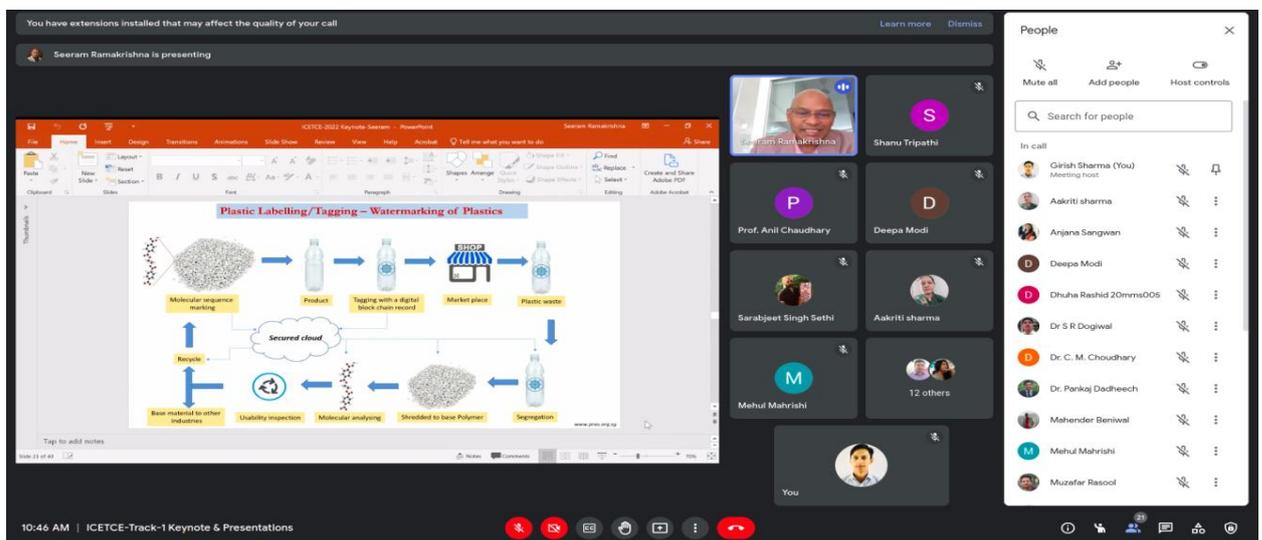
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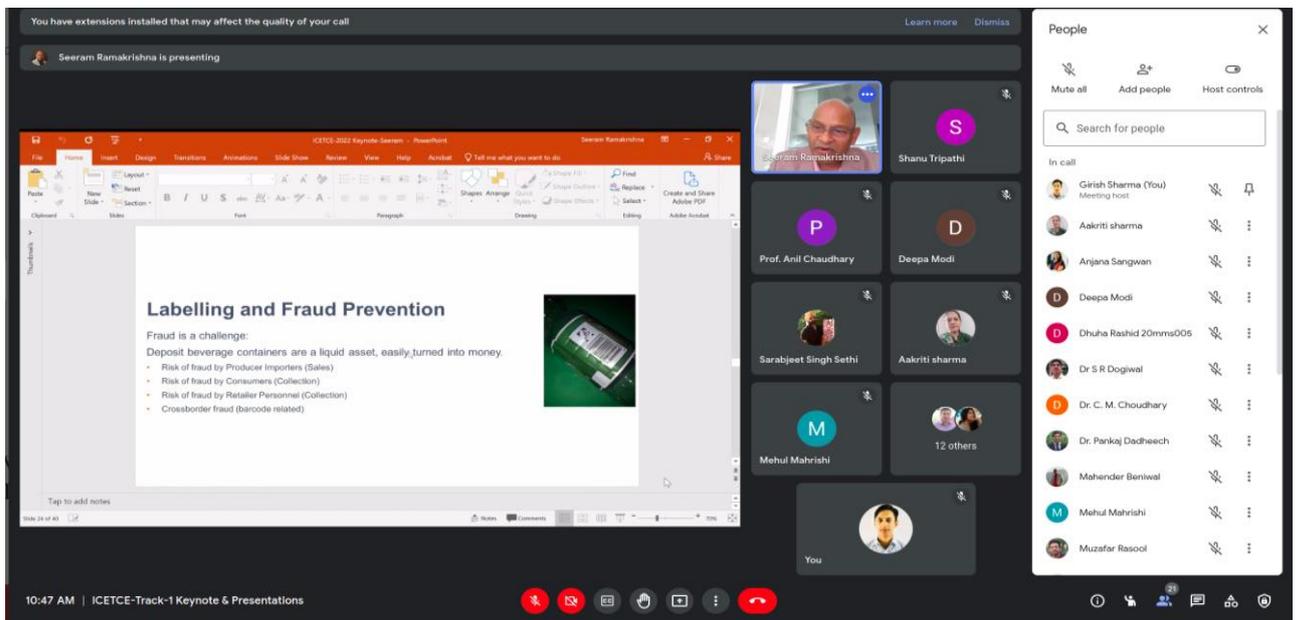
Keynote (10:30 am - 11:00 am): Prof. Seeram Ramakrishna, Vice President Research Strategy, Professor, and Faculty of Engineering National University of Singapore (NUS).

Topic of Talk: BioTech Befriending Circular Economy.



- Prof. Seeram has talked about the multidisplinary domains such as ML, IoT, Fraud Detection and security.
- He has dicussed that how a computer program can detect people who are at higher risk of developing depression.
- He has also talked about the some new concepts like ESG, Zero Carbon society and Greenwashing.
- He has emphasized about the plastic waste management & wearable device in healthcare.

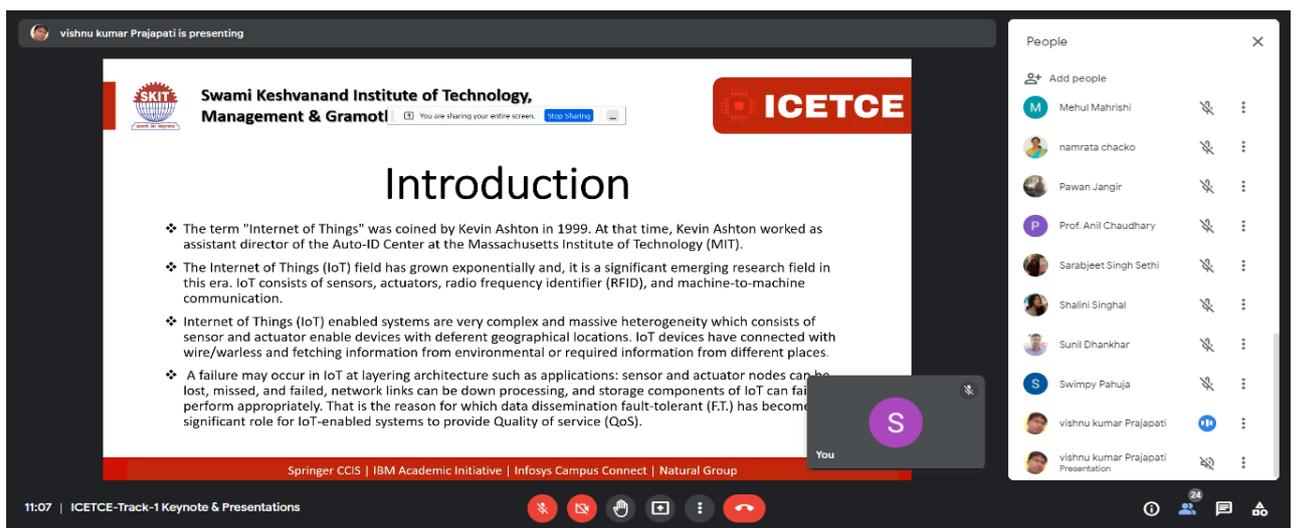




Technical Session Chaired by:

1. **Dr. ManjuKaushik**, Associate Professor, Amity Institute of Information Technology (AIIT)
2. **Dr. AbhishekVerma**, Assistant Professor, IIIT Jabalpur, Madhya Pradesh, India.

SCREENSHOTS OF THE PRESENTATIONS



- 10 Papers were presented in this Track of Technical Session.

Track-2

Machine Learning and Applications

Keynote by- Dr. Sumit Srivastava, Professor, Manipal University, Jaipur & Senior Member, IEEE Delhi Section (10:30-11:00).

Topic: Machine Learning Model for the Road Accidents.

Technical Session Chaired by:

1. Dr. Sudha Morwal, Associate Professor, Department of Computer Science, Banasthali Vidhyapith, Rajasthan, India.

2. Dr. Megha Chhabra Grover, Assistant professor, Department of Computer Science, Sharda University, UP, India

The screenshot shows a Google Meet interface. At the top, the browser tabs include 'Inbox (1) - sushil', 'SKIT Jaipur', 'Cisco Webex Ext...', 'People in ICETCE', 'Meet - hjw-t...', 'matlab program', and 'Sign in'. The address bar shows the meeting URL: `meet.google.com/hjw-tcr-c-0fg?authuser=0&pli=1`. The main content area displays a presentation slide titled 'Track 2 ML and Applications (1)'. The slide features the SKIT logo and the text: 'Swami Keshyanand Institute of Technology, Management & Gramothan, Jaipur Department of CSE & IT', 'Welcome to Track-02(Machine Learning and Applications)', and a footer with 'Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group'. The slide is presented by 'Dr. Nilam Choudhary'. To the right of the slide is a gallery of participants, including Sumit Srivastava, Dr. Meenakshi Nawal, Dr. Nilam Choudhary, bhagyashree choug..., babita dhanwal, Megha Chhabra, and 'You'. The bottom of the screen shows the meeting controls, including a red 'End Meeting' button, and the system tray with the time '10:34 AM' and date '04-02-2022'.

meet.google.com/hjw-tcr-0fg?authuser=0&pli=1

Sumit Srivastava is presenting

SKIT Institute of Technology, Management & Gramothan, Jaipur

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ROAD CRASHES IN RAJASTHAN WITH DETAILED ANALYSIS OF JAIPUR DISTRICT

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Fig. Road Accidents and Injuries in Rajasthan (2015 - 2019) Source: Transport Department

Fig. Persons Killed in Road Accidents in Rajasthan (2015-2019) Source: Transport Department

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10:40 AM | hjw-tcr-0fg

Track 2 ML and Ap...pdf

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10:40 04-02-2022

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Sumit Srivastava is presenting

SKIT Institute of Technology, Management & Gramothan, Jaipur

ICETCE

DATA SOURCES FOR ANALYSING ROAD CRASHES

| Cause | Accidents | Killed | Injured |
|--------------------|-----------|--------|---------|
| Overspeed | 3695 | 1215 | 3162 |
| Drunken Driving | 68 | 11 | 43 |
| Wrong Side Driving | 142 | 41 | 135 |
| Red Light Jump | 1 | 0 | 0 |
| Using Mobile | 6 | 4 | 4 |
| TOTAL | 3912 | 1271 | 3344 |

Table Accidents, Deaths, and Injured According to Cause in Jaipur (2018). Source: Transport Department

Fig. Percentage Share of Deaths According to Cause of Accident in Jaipur (2018)

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10:46 AM | hjw-tcr-0fg

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Track 2 ML and Ap...pdf

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10:46 04-02-2022

- 13 Papers were presented in this Track of Technical Session.

Track 3

Soft Computing

Technical Session (10:30-1:30)

Total 12 papers were presented in this session.

Technical Session Chaired by:

1. **Dr. Mithlesh Arya**, Poornima College of Engineering, Jaipur, Rajasthan, India.
2. **Mr. Gaurav Meena**, Assistant Professor, Central University of Rajasthan, India.

Gunjan Sharma is presenting

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

ICETCE

TEST SYSTEM

Fig. IEEE 69-bus test system

Base Voltage: 12.66 kV
Base MVA: 100 MVA
System Load: 3802.1 kW and 2694.6 kVar

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Gunjan Sharma, Nidhi Srivastva, Gaurav Meena, Dolly Mittal, 13 others, You

10:50 AM | kwm-evrc-yfs

People: Add people, Search for people, In call: Sunita Gupta (You), Ab Basit Ahanger, Ashish Pant, Dolly Mittal, Dr. Neha Janu, Dr. Pankaj Dadheech, Garima Gupta

Gunjan Sharma is presenting

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

ICETCE

An Analytical Method for Optimal Allocation of Renewable Based DGs at Different Penetration Level

Dr. Sarfaraz Nawaz, Gunjan Sharma
gunjansmay10@gmail.com

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Gunjan Sharma, Nidhi Srivastva, Gaurav Meena, Mithlesh Arya, 15 others, You

10:54 AM | kwm-evrc-yfs

People: Add people, Search for people, In call: Sunita Gupta (You), Ab Basit Ahanger, Anjali Pandey, Ashish Pant, Dolly Mittal, Dr. Neha Janu, Dr. Pankaj Dadheech

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Ab Basit Ahanger is presenting

**Swami Keshvanand Institute of Technology,
Management & Gramothan, Jaipur**

ICETCE

Introduction

- The main goal of recommendation systems is to suggest the most relevant items to the users as accurately as possible to the best satisfaction of the user through analysis of their preferences by observing their interactions (clicks, ratings, likes etc) with the system in question.
- As the prediction accuracy of recommender systems rose, research focus shifted to making recommendations more fair, diverse, novel and serendipitous
- User satisfaction in popular trend suggestions is of the same order of magnitude as the suggestions made by state of the art recommender systems with lower cost of development and maintenance

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Ab Basit Ahang...

Prashant Acha...

Sunita Gupta

Pushpa Koranga

14 others

You

11:21 AM | kwm-evrc-yfs

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People

👤 Add people

In call

- S Sunita Gupta (You) 🔇 📌
- Ab Basit Ahanger 🔊 ⋮
- Ab Basit Ahanger Presentation 🔇 ⋮
- A Anjali Pandey 🔇 ⋮
- SKIT Ashish Pant 🔇 ⋮
- D Dolly Mittal 🔇 ⋮
- Dr. Neha Janu 🔇 ⋮

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Ab Basit Ahanger is presenting

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ICETCE

Model Based and Reranking Techniques

- The two most widely used techniques in literature are model based and re-ranking techniques
- In Model Based technique, the objective function is modified to adjust for item popularity in final rating prediction.
- The re-ranking technique is a post processing method where the recommendations produced by a RS are reordered to minimize the effect of popularity bias

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Ab Basit Ahang...

Prashant Acha...

Sunita Gupta

Pushpa Koranga

18 others

You

11:29 AM | kwm-evrc-yfs

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People

👤 Add people

In call

- S Sunita Gupta (You) 🔇 📌
- Ab Basit Ahanger 🔊 ⋮
- Ab Basit Ahanger Presentation 🔇 ⋮
- A Anjali Pandey 🔇 ⋮
- A Anjali Pandey 🔇 ⋮
- SKIT Ashish Pant 🔇 ⋮
- D Dolly Mittal 🔇 ⋮

Meet - Day 1 Track 3 Internat... x +

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Syed Wajid Aalam is presenting

Introduction

- Recommender systems are part of our lives as these help in decision making, information retrieval, listening to preferred music, and a lot more.
- Recommender systems mostly rely on historical interactions, so accuracy is increased as users interact with the system.
- A recommender system should be fair enough in recommending relevant items to users and it should help users to find what they need even if they are unaware of their needs.
- The items of advantaged groups are more likely to get recommended irrespective of their quality or user's preferences which makes fairness a critical issue in recommender systems.

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Sunita Gupta

Prashant Acharya

Dr.Chitra Desai

Gaurav Meena

Mithlesh Arya

Garima Gupta

Neha Mathur

13 others

You

12:09 PM | Day 1 Track 3 International Conference

ENG INTL 12:09 PM 2/4/2022

Meet - Day 1 Track 3 Internat... x +

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Syed Wajid Aalam is presenting

Literature survey

user-sided fairness & item-sided fairness: For the recommender system to be fair, both item-sided and user-sided perspectives need to be considered. Users must get fairer recommendations of items and items should be fairly recommended to users.

For item sided fairness Ke Yang and Julia Stoyanovich proposed a metric(rND) which is defined as:

$$rND(\tau) = \frac{1}{X} \sum_{j=20:30}^M \frac{1}{\log_2 j} \left| \frac{|S_{1,j}^+|}{j} - \frac{|S^+|}{M} \right|$$

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Sunita Gupta

Prashant Acharya

Dr.Chitra Desai

Gaurav Meena

Mithlesh Arya

Garima Gupta

Neha Mathur

15 others

You

12:16 PM | Day 1 Track 3 International Conference

ENG INTL 12:17 PM 2/4/2022

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Dr.Chitra Desai is presenting

Data Pre-processing

- There are no null values in the dataset.
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- The duplicate values are dropped and the number of instances is reduced to 1696 instances.
- The dataset as mentioned earlier consists of 2 columns – text and label.
- In this dataset, the label is our target variable.
- The target variable consists of four unique classes - The value count across each class is - accounts is 284, biology is 595, geography is 93, physics is 724 as shown in the figure.
- It is observed the data is highly imbalanced.

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11:50 AM | kwm-evrc-yfs

People

Add people

Search for people

In call

- Sunita Gupta (You)
- Ab Basit Ahanger
- Anjali Pandey
- Anjali Pandey
- Ashish Pant
- Dolly Mittal
- Dr. Neha Janu

Neha Mathur, Garima Gupta, Dr.Chitra Desai, Prashant Acha..., 19 others, You

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Dr.Chitra Desai is presenting

Text Pre-processing

- To check those outliers, instances with text length greater than 3000 and less than 100 are identified. There are 3 instances with text length greater than 3000 and 4 instances less than 100.
- To impact the mean, three instances above 3000 can be dropped.
- However, for further experiment, these records are retained here.
- The unique words found in 1696 instances is 18632.
- The data after text preprocessing is split into 80% training data and 20% of testing data.

| | text | label | TextLen |
|------|---|-------|---------|
| 938 | dual nature radiation every body temperature e... | 3 | 3175 |
| 1265 | g ravitani india leap space india started spac... | 3 | 3367 |
| 1688 | geography discipline ocean geographical factor... | 2 | 3048 |

| | text | label | TextLen |
|------|---|-------|---------|
| 1172 | l physc | 3 | 8 |
| 1254 | simulate propagation electromagnetic wave e | 3 | 43 |
| 1316 | physc hysterisis magnetic material f | 3 | 37 |
| 1660 | l physc | 3 | 8 |

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11:54 AM | kwm-evrc-yfs

People

Add people

Search for people

In call

- Sunita Gupta (You)
- Ab Basit Ahanger
- Anjali Pandey
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- Dr. Neha Janu

Neha Mathur, Garima Gupta, Dr.Chitra Desai, Prashant Acha..., 19 others, You

The screenshot shows a Google Meet interface. At the top, the browser tabs include 'Meet - kwm-evrc-yfs', 'Inbox (2,426) - anjali.pandey@sk...', 'Presentations - Google Drive', and 'ICETCE_Paper_ID_128.pptx - Goo...'. The URL bar shows 'meet.google.com/kwm-evrc-yfs'. The main content area displays a presentation slide titled 'ICETCE 2022, SKIT, M & G JAIPUR' with the subtitle 'ASSOCIATION RULE CHAINS (ARC): A NOVEL DATA MINING TECHNIQUE FOR PROFILING AND ANALYSIS OF TERRORIST ATTACKS'. The slide credits 'Saurabh Ranjan Srivastava¹, Dr.Yogesh Meena², Dr.Girdhari Singh³' and identifies the department as 'DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING, MALVIYA NATIONAL INSTITUTE OF TECHNOLOGY, JAIPUR'. The slide features a background image of a soldier in tactical gear. To the right of the slide is a grid of participant tiles. The top row includes Kavya Goel, Prashant Acharya, and Saurabh Srivastava (who is presenting). The second row includes Gaurav Meena, Mithlesh Arya, and Dolly Mittal. The third row includes Anjali Pandey, a tile for '10 others', and 'You'. The bottom of the screen shows a Windows taskbar with the search bar, several application icons, and system tray information including '20°C' and '1:01 PM 2/4/2022'.

This screenshot shows a Google Meet session with a grid of participants and a 'People' list on the right. The browser tabs are the same as in the first screenshot. The URL bar is 'meet.google.com/kwm-evrc-yfs'. The main area shows a grid of video tiles. The top row includes Mehul Mahrishi, Gaurav Meena, and Manisha samanta. The second row includes Mithlesh Arya, Kavya Goel, and Sunita Gupta. The third row includes Pushpa Koranga, a tile for '7 others', and 'You'. On the right side, a 'People' list is open, showing a list of participants with their names and icons: Add people, Manisha samanta, Mehul Mahrishi, Mithlesh Arya, Neha Mathur, Nidhi Srivastva Meeting host, Pushpa Koranga, and Sunita Gupta. The bottom of the screen shows a Windows taskbar with the search bar, application icons, and system tray information including '20°C' and '1:40 PM 2/4/2022'.

- 12 Papers were presented in this Track of Technical Session.

Track 4

Cognitive Computing

Keynote (9:00 am - 09:30 am) by Prof. (Dr.) Arun K. Somani, Associate Dean for Research, College of Engineering, Iowa State University, Ames, USA.

1. He started the session with the basics of Hardware Perspective of Neural Architecture Search.
2. He explained the neural network processing hardware.
3. He also talked about Image and weight reuse without layer fusion.
4. He also discussed various case studies on this like ASIC: Accelerator Aware NAS. .
5. At the end a very healthy question answer session also took place. Different questions were asked by the participants related to various application of Deep learning in Image Processing.

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the following text:

Neural Architecture Search: A Hardware Perspective*

Arun K. Somani
Distinguished Professor of Electrical and Computer Engineering
Associate Dean for Research, College of Engineering
Philip and Virginia Sproul Professor
Iowa State University, Ames, IA, USA

*This work is based on PhD dissertation of Mr. Krishna Teja Chitty-Venkata. These slides are copyrighted. If used for any purpose, they should be acknowledged/referenced as below. Arun K. Somani and Krishna Teja Chitty-Venkata, "Neural Architecture Search: A Hardware Perspective," A talk delivered as part of Confluence-22 Conference held at Amity University Uttar Pradesh, Jan 27, 2022.

The interface also shows a video feed of Arun Somani, a list of participants (15 others), and a meeting control bar at the bottom with the time 9:01 AM and track name 'Track-4: cognitive Computing'.

The screenshot shows a Google Meet interface. The main window displays a presentation slide with the following text:

Hardware Metrics - Look-up-table (LUT) vs Prediction-based

- **Look-up Table (LUT):**
 - LUT consists of pre-collected cost of each operator in the search space on the target hardware
 - FBNNet, and SPNAS methods construct an LUT to hold runtime latencies
- **Prediction-based:**
 - A few ML-based regression models have been used to predict a model's performance
 - ChamNet incorporates energy, accuracy and latency predictors in the search process
 - BRP-NAS predicts the hardware performance using a Graph Convolutional Network (GCN)

The slide includes a scatter plot showing a strong positive correlation between 'Estimated (ms)' on the x-axis and 'Actual' on the y-axis. It also features a diagram of a neural network structure labeled 'Super Network' with four cells (Cell 1, Cell 2, Cell 3, Cell 4) and a 'Latency Estimator' block.

The interface also shows a video feed of Arun Somani, a list of participants (24 others), and a meeting control bar at the bottom with the time 9:22 AM and track name 'pes-gkhg-esu'.

Inbox (16) - dogiwal@gmail.com x Meet - pes-gkhg-esu x +

meet.google.com/pes-gkhg-esu?pli=1

You have extensions installed that may affect the quality of your call [Learn more](#) [Dismiss](#)

A Arun Somani is presenting

Top 10 IEEE Explorer's Hottest Topics (Source IEEE Spectrum Dec 2021)

1. Image Processing
2. Antenna
3. Artificial Intelligence
4. Machine Learning
5. Data Mining
6. Cloud Computing
7. VLSI
8. Deep Learning
9. Big Data
10. Internet of Things

Arun Somani Prof. Anil Chau... 14 others You

9:01 AM | pes-gkhg-esu

Windows Taskbar: File Explorer, Chrome, Word, PDF, Excel

9:01 AM 2/5/2022

People

- Deepta Modi
- Diwakar Sharma
- Dolly Mittal Meeting host
- Dolly Mittal Meeting host
- Dr. C. M. Choudhary
- Dr. Pankaj Dadheech
- Geetika Singh
- Kailash Soni
- Lakshman Singh Dhaked

Inbox (16) - dogiwal@gmail.com x Meet - pes-gkhg-esu x +

meet.google.com/pes-gkhg-esu?pli=1

You have extensions installed that may affect the quality of your call [Learn more](#) [Dismiss](#)

A Arun Somani is presenting

AI and Deep Learning is Everywhere

Deep Neural Networks

Arun Somani 18 others You

9:03 AM | pes-gkhg-esu

Windows Taskbar: File Explorer, Chrome, Word, PDF, Excel

9:03 AM 2/5/2022

Technical Session Chaired by:

1. **Dr. Linesh Raja**, Assistant Professor, Department of Computer Applications, Manipal University Jaipur, Rajasthan, India.
2. **Dr. Kamal Kant Hiran**, Associate Professor, Sir Padmapat Singhania University, Udaipur, Rajasthan.

The screenshot shows a Google Meet interface. At the top, there are browser tabs for 'Inbox (18) - dogiwal@gmail.com' and 'Meet - pes-gkhg-esu'. The address bar shows 'meet.google.com/pes-gkhg-esu?pli=1'. A notification at the top states: 'You have extensions installed that may affect the quality of your call'. Below this, it says 'Diwakar Sharma is presenting'. The main content is a PowerPoint slide from 'Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur' with the ICETCE logo. The slide title is 'Vector Learning: Digit Recognition by learning the abstract Idea of curves' by Divyanshu Sharma. The slide footer includes 'Springer CC5 | IBM Academic Initiative | Infosys Campus Connect | Natural Group'. On the right, there are video thumbnails for 'Diwakar Sharma' and '18 others'. At the bottom, there are controls for mute, video, chat, and a 'You' thumbnail with a 'Minimize' button. The system tray at the very bottom shows the time as 10:11 AM on 2/5/2022.

- 8 Papers were presented in this Track of Technical Session.

Track 5

Data Science & Big Data Analytics

Keynote (9:30 am - 10:00 am) by Ms. Pratibha Sharma, Technical Test Lead, Infosys Ltd.

1. Session was taken by **Ms. Pratibha Sharma**, Technical Test Lead, Infosys Ltd.
2. She started the session with a brief introduction on IoT, Internet of Things.
3. She talked about different waves of technologies like IoT, AI and Robotics.
4. She explained the 3 A's of IoT namely Aware, Autonomous & Actionable.
5. She also explained the elements of IoT namely Identification, sensing, communication, computation and data visualization.
6. At the end a very healthy question answer session also took place where different questions were asked by the participants related to the various applications of IoT.

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "IoT an Introduction". The slide features a collage of images related to IoT, including a person in a blue uniform, a car wheel, and various IoT devices. The slide also includes the text "Tomy Thomas Engineering Academy" and "Infosys Building Tomorrow's Enterprise We Evolve because We Communicate". The meeting controls at the bottom show the time as 09:43 and the meeting ID as yov-xanf-yfm. The participant list on the right includes Pratibha Sharma, Prof. Anil Cha, Nikhar Bhatnag, Priyanka Sharma, sunil kumar, Rajat Goel, and Dr. Pankaj Das, along with 12 others and the presenter "You".

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "So machines are taking over". The slide contains a diagram showing the transition from "Internet of People" to "Internet of Things" and a graph showing the "Rapid adoption rate of digital infrastructure" compared to "World Population". The slide also includes the text "AI and Robotics" and "Internet of Things / 50B+ in 2025". The meeting controls at the bottom show the time as 09:50 and the meeting ID as yov-xanf-yfm. The participant list on the right includes Pratibha Sharma, Prof. Anil Cha, Devanshu Kumar, Dr. Krishna K..., Priyanka Sharma, Ramesh Kumar, Nikhar Bhatnag, and 12 others, along with the presenter "You".

Technical Session Chaired by:

1. **Dr. Amit Kumar Gupta**, Associate Professor, Department of Computer Science and Engineering, Amity School of Engineering & Technology (ASET), Amity University Jaipur, Rajasthan, India.
2. **Dr. Krishna Kant Mohbey**, Assistant Professor, Department of Computer Science, Central University of Rajasthan, Ajmer, India.

The screenshot shows a Google Meet interface. At the top, the browser address bar displays 'meet.google.com/yov-xanf-yfm?pli=1'. The main content area is a Microsoft PowerPoint slide titled 'Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur Track-05(Data Science & Big Data Analytics)'. The slide features the SKIT logo, the ICETCE logo, and two speakers: Dr. Amit Kumar Gupta (Associate Professor, Department of Computer Science and Engineering, Amity School of Engineering & Technology (ASET), Amity University Jaipur, Rajasthan, India) and Dr. Krishna Kumar Mohbey (Assistant Professor, Department of Computer Science, Central University of Rajasthan, Ajmer, India). The bottom of the slide lists sponsors: Springer CCIS, IBM Academic Initiative, Infosys Campus Connect, and Natural Group. On the right side of the Meet window, a gallery of participants is visible, including Rajat Goel, Prof. Anil Cha..., Nikhar Bhatia..., Devanshu Ku..., Dr. Krishna K. ..., Priyanka Shar..., Khongdet Pha..., and 14 others. The bottom of the screen shows the Windows taskbar with the time 10:20 AM on 2/5/2022.

- 6 Papers were presented in this Track of Technical Session.

Track 6

Blockchain and Cyber Security

Track – 6 (Presentation link: <https://meet.google.com/sry-trhj-xpa>)

Keynote (9:00 am - 09:30 am) by Prof. (Dr.) S. C. Jain, Professor, Computer Science & Engineering, Rajasthan Technical University, Kota, Rajasthan.

1. Session was taken by **Prof. (Dr.) S. C. Jain**, Professor, Department of Computer Science & Engineering, Rajasthan Technical University, Kota, Rajasthan.
2. He started the session with the basics of Bank transactions and cyber crimes and security measures.
3. He explains the topics and various techniques of Blockchain Generations from 1 to 4.
4. He also talked about Blockchain 4 emerges in business application and also discussed Blockchain as Service (Baas).
5. He also explains the various challenges faced by these techniques and also discuss latest emerging areas.
6. At the end a very healthy question answer session also took place. Different questions were asked by the participants related to various application of Blockchain and its Applications.

Technical Session is Chaired by:

1. **Dr. Rajiv Singh**, Associate Professor, Department of Computer Science, Faculty of Mathematics and Computing, Banasthali Vidyapith.
2. **Dr. Pravin R. Kshirsagar**, Professor, Faculty of Engineering, G.H Rasoni College of Engineering, Nagpur, India.
3. **Dr. Vijendra Singh**, Associate Professor, Faculty of Engineering, Department of Computer Science and Engineering, Manipal University Jaipur, Rajasthan, India.

The screenshot shows a Google Meet interface. The main window displays a presentation slide titled "Blockchain - Flow Diagram". The diagram illustrates the process of a transaction being completed on a blockchain. It starts with a "Wallet" where a transaction is initiated. This transaction is sent to the "Transaction & Block Structure" stage. The process then moves to "Miners" who perform "Cryptography" and "Consensus" to verify the transaction. Once verified, the transaction is added to the "Unconfirmed Block Pool" and finally becomes a part of the "Blockchain".

On the right side of the Meet window, there is a "People" list showing the following participants: Naveen Jain, Neha Mathur, Pawan Jangir, Rajiv Singh, Rohit Khinchi, Rubal Deep Gill, and S.C. Jain. The current speaker is S.C. Jain.

The bottom of the screenshot shows the Windows taskbar with the time 9:28 AM on 2/5/2022.

Swimpy Pahuja is presenting

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

ICETCE

Analysis and Discussions

| S.N o. | Multimodal System | Accuracy (in percentage) | FAR (in percentage) | FRR (in percentage) | EER (in percentage) |
|--------|-------------------|--------------------------|---------------------|---------------------|---------------------|
| 1. | IBFS [19] | 99.6 | 0.33 | 0.002 | 0.4 |
| 2. | DGS [20] | 99.41 | 0.21 | 0.97 | 0.59 |
| 3. | OMBAS [21] | 99.2 | 2 | 1.03 | 0.8 |

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

10:22 AM | sry-trhj-xpa

Schedule TECHNIC...pdf | Attendee_AGENDA...pdf | Attendee_AGENDA...pdf

Sukhwinder Sharma is presenting

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

ICETCE

Paper ID: 068

Penetration Testing Framework (PTF):

- **Generalized Deterministic Environment** having set of input output parameters
- Mixture of well-known benchmarked network parameters
 - a) **radio model** considered for deciding how the energy dissipation will be calculated based on the node deployment and data transmission in the network,
 - b) **network model** indicating the physical parameters about the network size, number of nodes and types, their placement along with that of the sink node,
 - c) **performance metrics**, and
 - d) **simulation setup**

Springer CCIS | IBM Academic Initiative | Infosys Campus Connect | Natural Group

10:37 AM | sry-trhj-xpa

• 9 Papers were presented in this Track of Technical Session.

WRAP UP AND VALEDICTORY SESSION

In the Valedictory Session key persons, practitioners and chair members shared their experiences of the conference. Ms. Anjana Sangwan, Secretary (ICETCE-2022) presented the summary report of the conference. The certificates was awarded for the best paper and to the coordinators and volunteers by Prof. (Dr.) San Murugesan, Adjunct Professor, Western Sydney University; Director, BRITE Professional Services; Golden Core Member, IEEE, Dr. Pankaj Dadheech (Technical Program Chair), Dr. Mehul Mahrishi (Technical Program Chair), Ms. Sanju Choudhary (Secretary) and Ms. Priyanka (Secretary) ICETCE-2022. Vote of thanks was given by Prof. (Dr.) Anil Chaudhary (Organizing Chair).The conference was a success and served as a source to gain and give knowledge, it also fostered the professional and personal growth of students as they got the opportunity interact with such learn dignitaries.

CONFERENCE OUTCOMES

The next generation of research and development must be faster, enhanced, intelligent, integrated and secured. The conference helped the researchers and technocrats to deepen the understanding of Machine Learning and Applications, Internet of Things (IoT) Applications and Technologies, Big Data Analytics, Security, Privacy and Trust, Big Data Organization, Retrieval and Indexing Using Deep Learning, Machine Learning to Real Time Processing of Microservice Events and many more research areas and upcoming technologies.

Students were also benefited and updated their skills on the latest technologies to understand how next generation computing can contribute to deliver faster and integrated commercial viabilities.

इस दौरान मौजूद मरीजों का फलों का टोकरी भी भेंट की गई।

एसकेआइटी में 5वीं अंतरराष्ट्रीय कॉन्फ्रेंस आयोजित

जयपुर | स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी (एसकेआइटी) में ऑनलाइन प्लेटफॉर्म पर दो दिवसीय 5वीं अंतरराष्ट्रीय कॉन्फ्रेंस 'इमर्जिंग टेक्नोलॉजी इन कंप्यूटर इंजीनियरिंग: कॉग्निटिव कम्प्यूटिंग एंड इंटेलिजेंट' आईबीएम, इंफोसिस (कैंपस कनेक्ट) और नेचुरल ग्रुप के संयुक्त तत्वावधान में शुरू की गई। कार्यक्रम के मुख्य अतिथि राजस्थान टेकनिकल यूनिवर्सिटी के वाइस चांसलर डॉ. आरए गुप्ता रहे। कॉलेज ऑफ इंजीनियरिंग आयोवा स्टेट यूनिवर्सिटी, अमेरिका के एसोसिएट डीन डॉ. अरुण सोमानी ने कहा कि इस बार इसमें 8 देशों से



229 रिसर्च पेपर प्राप्त हुए एवं 58 को सेलेक्ट किया गया जो स्प्रिंगर सी सी आई एस सीरीज में प्रकाशित किए जाएंगे। कार्यक्रम की गेस्ट ऑफ ऑनर डॉ. मनी मधुकर (प्रोग्राम मैनेजर, ग्लोबल यूनिवर्सिटी प्रोग्राम, आई बी एम) ने कॉन्फ्रेंस की थीम को सटीक बताया। इस मौके पर प्रो. सीएम चौधरी, प्रो. एस.एल. सुराणा, जयपाल मील, डॉ. रमेश पचार, डॉ. अनिल चौधरी, डॉ. मुकेश गुप्ता आदि मौजूद रहे।

एसकेआईटी में दो दिवसीय अंतरराष्ट्रीय कॉन्फ्रेंस शुरू

जयपुर (कासं.)। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में ऑनलाइन प्लेटफार्म पर दो दिवसीय 5वीं अंतरराष्ट्रीय कॉन्फ्रेंस 'इमर्जिंग टेक्नोलॉजी इन कंप्यूटर इंजीनियरिंग: कॉग्निटिव कम्प्यूटिंग एंड इंटेलिजेंट IoT (ICETCE 2022)' आईबीएम, इंफोसिस (कैम्पस कनेक्ट) और नेचुरल ग्रुप के संयुक्त तत्वावधान में शुरू की गई। कार्यक्रम के मुख्य अतिथि डॉ आर ए गुप्ता (वाइस चांसलर, राजस्थान टेकनिकल यूनिवर्सिटी) ने एसकेआईटी के सेंटर ऑफ एक्सीलेंस की प्रशंसा करते हुए इसे इनोवेशन हब बताया और क्वालिटी रिसर्च को आज की जरूरत बताया। उन्होंने कहा कि इस तरह की कॉन्फ्रेंस को बार बार ऑर्गेनाइज करना चाहिए। प्रो.



एस.एल. सुराणा (डायरेक्टर, एकेडमिक्स), जयपाल मील (डायरेक्टर) एवं डा. रमेश पचार (प्रिंसिपल), आईटी हेड डा. अनिल चौधरी और हेड कंप्यूटर इंजीनियरिंग, डा. मुकेश गुप्ता ने सभी आगंतकों का स्वागत किया। डाक्टर अरुण सोमानी (एसोसिएट डीन, कॉलेज ऑफ इंजीनियरिंग आयोवा स्टेट यूनिवर्सिटी, अमेरिका) ने कॉन्फ्रेंस के महत्व के बारे में बताते

हुए कहा कि इस बार इसमें 8 देशों से 229 रिसर्च पेपर प्राप्त हुए एवं 58 को सेलेक्ट किया गया जो स्पिंगर सी सी आई एस सीरीज में प्रकाशित किए जायेंगे। कॉलेज के प्रो सीएम चौधरी ने प्रतिभागियों को कॉन्फ्रेंस प्रोग्राम के बारे में जानकारी दी। प्रोस्ट ऑफ ऑनर डाक्टर मनी मधुकर (प्रोग्राम मैनेजर, ग्लोबल यूनिवर्सिटी प्रोग्राम, आई बी एम) ने कॉन्फ्रेंस की थीम को सटीक बताया।



महानगर टाइम्स

जयपुर। स्वामी केशवानंद इंस्टीट्यूट ऑफ टेक्नोलॉजी में ऑनलाइन प्लेटफार्म पर दो दिवसीय 5 वीं अंतरराष्ट्रीय कॉन्फ्रेंस 'इमर्जिंग टेक्नोलॉजी इन कंप्यूटर इंजीनियरिंग: कॉग्निटिव कम्प्यूटिंग एंड इंटेलिजेंट' में की गई कांफ्रेंस समापन शनिवार को हुआ। कांफ्रेंस के दौरान 58 पेपर्स प्रेजेंट 6 कैटेगरी में प्रेजेंट किए गए। इस मौके पर प्रो. सिंग्रेवेल मुर्गेंसन ने अपने प्लेनरी

टॉक में कंप्यूटर हिस्ट्री बताते हुए इसके डेवलपमेंट को रीयल लाइफ से जोड़ते हुए बताया कि कैसे अब यह हर सेक्टर में उपयोग हो रहा है। 6 ट्रेक से अलीमुल, हेमा, सौरभ श्रीवास्तव, गीतिका सिंह, सुनील कुमार, सुखविंदर शर्मा के पेपर को बेस्ट डिक्लेयर किया। अंजना सांगवान ने कांफ्रेंस को समराइज किया और आईटी हेड अनिल चौधरी ने वोट ऑफ थैंक्स प्रस्तुत किया।