# 20th International Conference on Distributed Computing and Intelligent Technology

**Organized By**

**Kalinga Institute of Industrial Technology (KIIT),**
**Deemed to be University,**
**Bhubaneswar, Odisha, India**
**17th - 20th, January 2024**
**Program Schedule (Offline)**

## Wednesday, January 17, 2024   [Day: 1] (Venue:- Campus 6 & Campus 7)

| Time | Programs & Venues | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 8:00 AM - 9:00 AM | **Registration, Breakfast and Preparation** | | | | | | | |
| 9:00 AM - 9:10 AM | **Lighting of Lamp** Venue: Conference Hall 4, Campus 6 | | | | 9:30 AM - 10:00 AM | **Inauguration of 14th Industry Symposium** Venue: Campus 7, Auditorium, KSOM | | |
| 9:10 AM - 10:10 AM | **Keynote Talk 1: Prof. Bud Mishra** (Professor, Courant Inst, New York University, USA) **Topic: "*Modality Games with Distributed Fictitious Plays using Evolving Kripke Machines*"** Venue: Conference Hall 4, Campus 6 | | | | 10:00 AM - 11:00 AM | **Invited Speaker 1: Mr. Saurabh Bhardwaj** (Vice President – QA Blockchain & Digital Practice , StateStreet) Topic: *A Symbiotic Dance - Blockchain and Cybersecurity in the Era of AI/GenAI* Venue: Campus 7, Auditorium, KSOM | | |
| 10:10 AM - 11:30 AM | **ICDCIT Paper Presentation (DC Track-1) (Resource Allocation and Scheduling)** Venue: Conference Hall 4, Campus 6 | | | | 11:00 AM - 11:15 AM | **Tea Break** | | |
| | Paper ID | Author | Title | Minute | 11:15 AM - 12:00 PM | **Panel Discussion** Venue: Campus 7, Auditorium, KSOM | | |
| | 32 | Akhirul Islam and Manojit Ghose | ELITE: Energy and Latency-Optimized Task Offloading for DVFS-Enabled Resource-Constrained Devices in MEC | 20 | 12:00 PM - 1:00 PM | **Invited Speaker 2: Mr. Aditya Khandekar** (President, Corridor Platform) Topic: *Security Regulations for AI and GenAI* Venue: Campus 7, Auditorium, KSOM | | |
| | 97 | Sharmistha Mandal, Sanjeet Lal, Soumik Sensarma, Srijoyee Saha, Giridhar Maji, Sunirmal Khatua and Rajib Das | An Online Algorithm for Cost Minimization of Amazon EC2 Burstable Resources | 20 | 10:10 AM- 11:30 AM | **ICDCIT Paper Presentation (IT Track-1) (Classical Learning Research)** Venue : Conference Hall 2, Campus 6 | | |
| | 15 | Meenakshi Sharma and Nitya Nanda Sarma | Utility driven joint time-and-power allocation in Energy-Harvesting Cognitive Radio Relay Networks | 20 | | Paper ID | Author | Title | Minute |
| | | | | | | 7 | Prasoon Singh and Lalatendu Behera | Prediction of Failure in Scania Truck due to Air Pressure System Failure | 20 |
| | 17 | Pruthvi Raj Venkatesh and Radha Krishna P | An Improved and Efficient Distributed Computing Framework with Intelligent Task Scheduling | 20 | | 33 | Ashok Gadde, Serath Chandra Kommula and Gireesh Kumar T | A Multi-Class Classification for Detection of IoT Network attacks using machine learning models | 20 |
| | | | | | | 49 | Harshitha Bingi and Sobha Rani T | Identification of onset and progression of Alzheimer's disease using Topological Data Analysis | 20 |

| Time | Programs & Venues |
|---|---|
| 11:30 AM – 11:40 PM | **Tea Break** |
| 11:45 AM – 12:45 PM | **Keynote talk 2: Prof. Janardhan Rao Doppa** (Associate Professor, School of EECS, Washington State University, USA)<br>**Topic:** *"Exploiting Synergies between AI and Computing Systems for Sustainable Computing"*<br>**Venue: Conference Hall 4 (ONLINE), Campus 6** |
| **Time** | **Programs & Venues** |
| 1:00 PM - 2:00 PM | **Lunch Break** |
| 2:30 PM - 4:00 PM | **Hackathon : Address to participants by Mr. Aditya Khandekar**<br>**(President, Corridor Platform)**<br>**Venue: Conference Hall 4, Campus 6** |
| 4:00 PM - 5:00 PM | **Keynote talk 3: Prof. Raj Kumar Buyya** (Professor, The University of Melbourne, Australia)<br>**Topic:** *"Neoteric Frontiers in Cloud, Edge, and Quantum Computing"*<br>**Venue: Conference Hall 4, Campus 6** |
| 5.00PM- 5.15PM | **Tea Break** |
| 6:00 PM Onwards | **Inaugural Function, Cultural Program and Founder's Dinner**<br>**Venue: Campus 7, Auditorium, KSOM** |

## Thursday, January 18, 2024    [Day: 2] (Venue:– Campus 6 )

| Time | Programs & Venues |
|---|---|
| 8:00 AM - 9:00 AM | **Registration, Breakfast, Preparation** |
| 9:00 AM - 9:10 AM | **Lighting of Lamp** |
| 9:10 AM- 10:10 AM | **Keynote talk 4: Prof. Nicola Santoro** (Professor, School of Computer Science, Carleton University, Ottawa, Canada)<br>**Topic:** *"Computing in Highly Dynamic Distributed Systems"*<br>**Venue: Conference Hall 4 (ONLINE), Campus 6** |

### ICDCIT Paper Presentation (DC Track-2) (Mobile Robots)
Venue: Conference Hall 4, Campus 6

| Paper ID | Author | Paper Details | Minute |
|---|---|---|---|
| 35 | Abhinav Chakraborty and Krishnendu Mukhopadhyaya | Parking Problem by Oblivious Mobile Robots in Infinite Grids | 20 |
| 43 | Archak Das, Satakshi Ghosh, Avisek Sharma, Pritam Goswami and Buddhadeb Sau | The Computational Landscape of Autonomous Mobile Robots: The Visibility Perspective | 20 |

### ICDCIT Paper Presentation (IT Track-2) (Applied Research - Text)
Venue: Conference Hall 2, Campus 6

| Paper ID | Author | Paper Details | Minute |
|---|---|---|---|
| 94 | Balaji Tk, Annushree Bablani, Sreeja Sr and Hemant Misra | SASE: Sentiment Analysis with aspect Specific Evaluation using deep learning with hybrid contextual embedding | 20 |
| 118 | Anuradha Goswami, Ajey Kumar and Dhanya Pramod | Bursty Event Detection Model for Twitter | 20 |
| 38 | Gadde Ashok, N Ruthvik and Gurusamy Jeyakumar | Optimizing Sentiment Analysis on Twitter: Leveraging Hybrid Deep Learning Models for Enhanced Efficiency | 20 |

(Time for above presentations: 10.15 AM - 11:15 AM)

| 10.15 AM - 11:15 AM | **Hackathon, Conference Hall 5, Campus 6** |
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| 11:15 AM-11:25 AM | Tea Break | | |
|---|---|---|---|
| 11:25 AM-1:00 PM | **Inauguration of Project Innovation Contest,** Project Exhibition displayed by students. **Venue : Kunjaban, Campus 6** | | **Hackathon, Conference Hall 5, Campus 6** |
| 1:00 PM-2:00 PM | Lunch Break | | |
| 2:00 PM - 3:00 PM | **Keynote Talk 5: Dr. Krishna Kummamuru** (Principal Director, AI Innovations & Products, Accenture Operations, Bengaluru) **Topic: "Building Gen AI Systems"** Venue: Conference Hall 4, Campus 6 | 2:00 PM - 5:00 PM | **Hackathon, Conference Hall 5, Campus 6** |

### ICDCIT Paper Presentation (DC Track-3)
### (Large-scale Computing)
Venue: Conference Hall 4, Campus 6

| Paper ID | Author | Paper Details | Minute |
|---|---|---|---|
| 19 | Kamalesh Karmakar, Shramana Dey, Rajib K Das and Sunirmal Khatua | Scheduling of Containerized Resources for Microservices in Cloud | 20 |
| 48 | Nagalakshmi Sr and Meenakshi D'Souza | Coverage Criteria based Testing of IoT Applications | 20 |
| 101 | Gaurav Pareek and Purushothama B R | A Practical and Efficient Key-Aggregate Cryptosystem for Dynamic Access Control in Cloud Storage | 20 |

### ICDCIT Paper Presentation (IT Track-3)
### (Applied Research - Healthcare, Finance and Engineering)
Venue: Conference Hall 2, Campus 6

| Paper ID | Author | Paper Details | Minute |
|---|---|---|---|
| 104 | Aditya Roy Chowdhury, Rohit Ahuja and Angad Manroy | A Machine Learning driven Approach For Parkinson's Prediction using Temporal Data | 20 |
| 106 | Sudhakara B. and Shrutilipi Bhattacharjee | Prediction of High-resolution Soil Moisture using Multi-source Data and Machine Learning | 20 |
| 116 | Samiksha Tawde, Sandhya Arora and Yashasvee Thakur | Online Payment Fraud Detection for Big Data | 20 |

(Time slot: 3:00 PM - 4:00 PM)

### ICDCIT Paper Presentation (IT Track-4)
### (Optimization, Evolutionary Methods and Deep Learning)
Venue: Conference Hall 4, Campus 6

| Paper ID | Author | Paper Details | Minute |
|---|---|---|---|
| 82 | Sumit Kumar Sah and Hategekimana Fidele | Enhancing Mario Gaming Using Optimized Reinforcement Learning | 20 |
| 92 | Kushagra Agrawal and Nisharg Nargund | Deep Learning in Industry 4.0: Transforming Manufacturing through Data-Driven Innovation | 20 |
| 99 | Vivek Kumar Rajak and Anjeneya Swami Kare | A Genetic Algorithm-Based Heuristic for Rumour Minimization in Social Networks | 20 |

(Time slot: 4:00 PM - 5:00 PM)

**Inauguration of Ph.D Research Symposium**

**Ph.D Symposium Paper Presentation 1**
Venue: Conference Hall 2, Campus 6

**PIC Project Evaluation 1**

Venue: Conference Hall 1, Campus 6

| 5:00 PM - 5:10 PM | Tea Break |
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# Friday, January 19, 2024    [Day: 3]  (Venue: Campus 6)

| Time | Programs & Venues | | |
|---|---|---|---|
| 8:00 AM - 9:00 AM | **Registration, Breakfast and Preparation** | | |
| 9:00 AM - 9:10 AM | **Lighting of Lamp** | | |
| 9:10 AM – 10:10 AM | **ICDCIT Paper Presentation (IT Track) 5 (Applied research) Venue: Conference Hall 4, Campus 6** | 9:30 AM – 11:20 AM | **Hackathon, Conference Hall 5, Campus 6** |
| 10:10 AM - 11:20 AM | **Ph.D Symposium, Paper Presentation 2 Venue: Conference Hall 1, Campus 6** | **PIC Project Evaluation 2 Venue: Conference Hall 2, Campus 6** | |
| 11:20 AM – 11:35 AM | **Tea Break** | | |
| 11:35 AM - 12:35 PM | **Keynote talk 6:  Dr. Atul Kumar** (Senior Research Scientist and manager, IBM Research, Bengaluru, Karnataka, India) Topic: *"Shaping the Future of Enterprise Computing: Confluence of AI, Hybrid Cloud, and Quantum Technologies"* Venue: Conference Hall 4, Campus 6 | 11:35 PM - 1:00 PM | **Hackathon, Conference Hall 5, Campus 6** |
| 12.35 PM - 1:00 PM | **Ph.D Symposium, Paper Presentation 3 Venue: Conference Hall 1, Campus 6** | **Inauguration of Student Research Symposium** **Student Research Symposium Paper Presentation 1 Venue: Conference Hall 2, Campus 6** | |
| 1:00 PM - 2:00 PM | **Lunch** | | |
| 2:00 PM - 3:30 PM | **PIC Project Evaluation 3 Venue: Conference Hall 1, Campus 6** | **Student Research Symposium Paper Presentation 2 Venue: Conference Hall 2, Campus 6** | 2:00 PM - 5:00 PM |
| 3:35 PM - 4:35 PM | **PIC Project Evaluation 4 Venue: Conference Hall 1, Campus 6** | **PIC Project Evaluation 5 Venue: Conference Hall 2, Campus 6** | **Hackathon, Conference Hall 5, Campus 6** |
| 4:35 PM - 5:00 PM | **PC Chairs Discussion & Result Announcement** | | |
| 5:00 PM - 5:15 PM | **Tea Break** | | |

### ICDCIT Paper Presentation (IT Track) 5 (Applied research) — Venue: Conference Hall 4, Campus 6

| Paper ID | Author | Paper Details | Minute |
|---|---|---|---|
| 107 | Parag Bhuyan and Pranav Kumar Singh | Evaluating Deep CNNs and Vision Transformers for Plant Leaf Disease Classification | 20 |
| 113 | Dr. Rajendra Kumar Roul, Navpreet Navpreet and Dr. Jajati Keshari Sahoo | Intelligent Ensemble-Based Road Crack Detection: A Holistic View | 20 |
| 119 | Kasi Viswanath Dasari, Alok Singh and Rammohan Mallipeddi | A General Variable Neighborhood Search Approach for the Clustered Traveling Salesman Problem with d-Relaxed Priority Rule | 20 |

| Saturday, January 20, 2024    [Day – 4]    (Venue: Campus 6) | |
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| **Time** | **Programs & Venues** |
| 8:00 AM - 9:00 AM | **Registration, Breakfast, Preparation** |
| 9:00 AM - 9:10 AM | **Lighting of Lamp** |
| 9:10 AM - 10:10 AM | **Keynote Talk 7: Dr. Sivaramakrishnan R Guruvayur** (Chief AI Scientist, aaquarian.ai, Dubai, United Arab Emirates)<br>**Topic:** *"Key Considerations in implementing Ethical & Responsible AI with Generative AI Use cases"*<br>**Venue: Conference Hall 4, Campus 6** |
| 10:15 AM - 1:00 PM | **Workshop**<br>**Venue: Computer Lab** |
| 1:00 PM - 2:00 PM | **Lunch** |
| 2:00 PM - 5:00 PM | **Workshop**<br>**Venue: Computer Lab** |
| 3:10 PM - 4:10 PM | **Keynote talk 8: Prof. C. Pandurangan** (Kotak Mahindra Visiting Chair Professor Indian Institute of Science, Bangalore)<br>**Topic:** *"Genesis, growth, and Future of Blockchains via trilemmas"*<br>**Venue: Conference Hall 4, Campus 6** |
| 5:00 PM - 6:00 PM | **FEEDBACK, CLOSING CEREMONY, RESULTS** |
| 6:00 PM | **High Tea** |