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Visting Researcher, University of Aberdeen, Scotland, United Kingdom

Visting Research Associate, University of Economics and Human Sciences, Warsaw, Poland

Visting Professor, University of Southampton, Southampton, United Kingdom

Personal Profile:

I am currently serving an Associate Professor in the Department of Computer Science and Engineering at the Indian Institute of Technology Dhanbad. My research areas include Distributed Computing, Distributed Databases, Modelling Big Data, Blockchain & Cloud Storage Security, Virtualization and Scheduling in Cloud environments, Community Detection in Social Networks, and validation of Machine Learning paradigms.

I have more than 15+ years of teaching and research experience in computer science and engineering, including modern technologies such as Data Science, Blockchain, Machine Learning, Cloud Computing, and Software development. I contribute to teaching across the suite of undergraduate, postgraduate, and research computing programmes, and have the experience of providing high quality teaching and research. I follow IEEE principles of research ethics. My research vision is to learn, practice, and develop suitable applications in the newly emerged areas of AI, Blockchain, and Distributed Computing for the benefit of society. I have successfully supervised 8+ doctoral and 50+ post-graduation theses. My expertise made me perform and present promising results regarding high-ranked publications, funded projects, and patents.

Significant Contributions:

- I have established academic and research leadership in **Blockchain Technology with application development, Distributed Computing (including Cloud Computing), and Big Data Modelling aligned with Machine Learning paradigms for Agricultural farming applications**, which were funded by National and International organizations such as the Department of Science and Technology (Science and Engineering Research Board), Govt. of India, and the PMU Cybersecurity Center Saudi Arabia.

- My expertise made me establish research collaborations and exchange programs with **Aberdeen University-UK, Leeds Becket University-UK, University of Southampton-UK, Nanyang Technological University - Singapore, Ulster Univesity - UK, Ostfold University - Norway, Universiti Kebangsaan Malaysia, PMU Saudi Arabia, and other global universities** and organizations throughout the globe. These collaborations facilitated the establishment of my knowledge for getting patent grants and delivering keynote talks at international conference venues.

- Using knowledge of various facets of teaching & research commitment to enhance the quality standards of academic programs by utilizing the latest technology, research & learning methods to assure students' success, confident to provide leadership & guidance to students and envision a future for any institute ensuring its reputation and academic standing.

"I equipped with analytical bent of mind, problem-solving skills & technical understanding of the stuff of the education field, constantly endeavoring towards delivering continuous results through dedication to nurture the creative potential of each student."

Career History:

2024 - **(May-July)** **Visiting Researcher**, **University of Aberdeen, Scotland, United Kingdom**.

2023 - **(May-July)** **Visiting Professor**, **University of Southampton, Southampton, United Kingdom**.

2022 - **(Present)** **Associate Professor**, **Indian Institute of Technology (ISM) Dhanbad**.

2019–2022 **Sr. Assistant Professor**, **Indian Institute of Technology (ISM) Dhanbad**.

2016–2019 **Assistant Professor** (Grade - I), **Indian Institute of Technology (ISM) Dhanbad**.

2011–2016 **Assistant Professor** (Grade - II), **Indian Institute of Technology (ISM) Dhanbad**.

2009–2011 **Senior Lecturer**, **Swarna Bharathi Inst. of Technology, Khammam, India**.

2005–2007 **Lecturer**, **Dr. Paul Raj Engineering College, Bhadrachalam, Telangana, India**.

2004–2005 **(Database Developer)**, **International Trade Links (South Africa, UAE, Mumbai)**.

2022 - (Present): **Associate Professor, Indian Institute of Technology (ISM), Dhanbad.**

Roles & Responsibilities:

- To develop and establish new curriculum proposals and contribute to the broader design of the teaching programs for Cloud Computing, Blockchain, and Data Intensive Computing courses.

- (i) To research new topics such as Blockchain with Digital Twins and Blockchain in AI, maintain up-to-date subject knowledge, devise and write new curriculum materials, and select various learning resources. (ii) To publish research results in articles and/or books which lead to an enhanced reputation in the subject area and enhance the research profile.

- To manage international activities and relationships for faculty and students. To lead new curriculum development and research in key areas such as Machine Learning, Blockchain, and Cloud Computing.

- To lead a group of professors for teaching large cohorts.

Key Achievements:

- Based on the research methodologies compiled, 03 Ph.D's were successfully completed with high-impact factor journals, including IEEE Transactions on Wireless Communications, ACM Transactions on Management Information Systems, IEEE Transactions on Industrial Informatics, and a good number of publications in Elsevier, Springer, etc.,

- (i) Funding grant approved for the project **Solving the medicine price tampering supply chain struggle with blockchain: design of pharma drug model** from PMU Cybersecurity Research Center, Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia. (ii) Received Int. participation grant award for the paper **RBDA: Redactable-Blockchain based Secure Data Aggregation Scheme for IoT enabled Cloud Paradigm.** by 20th International conference Committee PerCom 2022, Pisa, Italy (during March 21-25, 2022).

- The leadership in international led me to establish the collaboration with international universities such as PMU Saudi Arabia, Leeds Beckett University -UK, University of Southampton - UK, and ALbany State University, Albany, USA for possible joint project submissions and faculty/student exchange programmes.

- Successfully delivered assessment and marking for large cohorts since 2016 (for courses on Object Oriented Programming, Cloud Computing, and Distributed & Parallel Computing).

2019-2022: **Sr. Assistant Professor, Indian Institute of Technology (ISM) Dhanbad.**

Roles & Responsibilities:

- (i) To develop novel approaches in teaching and learning which are appropriate for the University and subject area and reflect developing practice elsewhere plan, design, and co-ordinate broad research activities and programmes. (ii) To develop methodologies and techniques appropriate to the type of research being pursued and that add to the knowledge/understanding appropriate to the discipline.

- To monitor and improve assessment practices for the faculty strategy.

Key Achievements:

- Based on the research paradigms developed, 03 Ph.D's were successfully produced with suitable publications in reputed international journals including IEEE Transactions on Services Computing, IEEE Transactions on Automation Science and Engineering, Journal of Industrial Information Integration, etc.,

- (i) Received International research grant award for the project **Secure and dynamic privacy-preserving public auditing schemes for IOT enabled data in clouds** from PMU Cybersecurity Research Center, Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia, April, 07 2021. (ii) Received Empowerment and Equity Opportunities for Excellence in Science Award for the project **Machine Learning based Agriculture Advent for Farmer Activity Development in India: An Application Approach** from Science and Engineering Research Board (SERB), Govt. of India.

- Designed Enterprise solution constructs for CMPF portal - Coal Mines Provident Fund, Govt. of India.

- Marking and examining have been improved for many student cohorts. Research strategies for faculty have been formulated for the next ten years.

2016-2019: **Assistant Professor (Grade-I), Indian Institute of Technology (ISM) Dhanbad.**

Roles & Responsibilities:

- To develop innovative research proposals and lead funding bids that develop and sustain research support in the specialist area; secure research funding for innovative projects.

- To establish research groups and supervise Ph.D. students.

- To develop programme proposals and contribute to the wider design of the teaching programme for courses such as Database Management Systems and Computer Organization.

Key Achievements:

- Based on the research paradigms developed, 02 Ph.D's were successfully produced with suitable publications in reputed international journals such as Elsevier, Springer, IoS Press, etc.,

- Received **Empowerment and Equity Opportunities for Excellence in Science Award for the project Machine Learning based Agriculture Advent for Farmer Activity Development in India: An Ap-**

plication Approach from Science and Engineering Research Board (SERB), Govt. of India. January 2019.

- Received **Best Researcher of the Year 2018** International award Idamas Learning Center, Malaysia. Under the agies of "Research Under Literal Access" August, 15 2018.

- Elected to the grade of **Senior Member, IEEE** United States of America. February, 16 2019.

- Received **"Outstanding Scientist in Computer Science 2018"** International award Venus International Foundation, India F. No. AAP-V/2018/O-ENNC2344, August, 11 2018.

- Received Early Career Research award for the project **Precision Agriculture Model to Increase Crop Productivity in India using Big Data** from Science and Engineering Research Board (SERB), Govt. of India. Grant Number: ECR/2017/001273, June 2017.

2011-2016: Assistant Professor (Grade-II), Indian Institute of Technology (ISM) Dhanbad.

Roles & Responsibilities:

- To develop methodologies and techniques appropriate to the type of research being pursued and that add to the knowledge/understanding appropriate to the discipline.

- To introduce new courses such as Cloud Computing, Big Data Analytics and framing the syllabus for Advanced DBMS.

Key Achievements:

- Executed a project on An Atomic Transaction Scenario for Heterogeneous Distributed Databases – A Synonym Application Approach for Reservation System. Sponsered by TEQIP-II(MHRD), Govt. of India.

- Received distinction for instituting proactive initiatives, implementing innovative methods of teaching, updating syllabus, and streamlining the conduct of examinations geared towards improving the quality of education.

- Published many papers in Elsevier, Springer, Inderscience and other reputed journal venues.

2009-2011: Senior Lecturer, Swarna Bharathi Institute of Technology, Khammam, India.

Roles & Responsibilities:

- To develop approaches in teaching and learning which are appropriate for the University and subject area and reflect developing practices.

Key Achievements:

- As an initial learner, established suitable area of research for pursuing Ph.D.

- Based on the knowledge gained from the Software industry, published some papers at various international conference venues.

2005-2007: Lecturer, Dr. Paul Raj Engineering College, Bhadrachalam, Telangana, India.

Roles & Responsibilities:

- To prepare and deliver regular lectures for students; conduct tutorial sessions, seminars, and laboratory classes whilst encouraging debate and feedback amongst students.

- To prepare and mark student assignments, and exams provided one-on-one feedback on academic performance where necessary.

Key Achievements:

- This was the phase where I learned and practiced teaching part to reach the higher levels of higher education.

2004-2005: **Database Developer, International Trade Links (South Africa, UAE, Mumbai).**

Roles & Responsibilities:

- To create and design new models for e-commerce applications.

- To install and upgrade the DBMS servers and to provide customer satisfaction.

Key Achievements:

- Designed and developed various database models for Airlines, Banking, and individual e-commerce organizations.

Professional Academic Qualifications:

2011-2015   Ph.D - [Computer Science and Engineering]

   Indian Institute of Technology (Indian School of Mines) Dhanbad, India.

2007-2009   M.Tech - [Computer Science and Engineering (Spl. Software Engineering)]

   Jawaharal Nehru Technological University Hyderabad, Telangana, India.

2000-2004   B.Tech - [Computer Science and Engineering]

   Kakatiya Institute of Technology and Science Warangal, Telangana, India.

Professional Achievements & Awards:

[1] Received best paper award for the paper **Redactable Blockchain-based EHR Enhancement Utilising Extended Chameleon Hashing and Additional Trapdoor Functionality** at 5th International Conference on Data Analytics and Management (ICDAM-2024), 14-15 June 2024, London Metropolitan University, London, United Kingdom.

[2] Received International research grant award for the project **Solving the medicine price tampering supply chain struggle with blockchain: design of pharma drug model** from PMU Cybersecurity Research Center, Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia, September 19, 2022.

[3] Received Int. participation grant award for the paper **RBDA: Redactable-Blockchain based Secure Data Aggregation Scheme for IoT enabled Cloud Paradigm.** by 20th International conference Committee PerCom 2022, Pisa, Italy (during March 21-25, 2022).

[4] Received best paper award for the paper **DRP-DBAS: Dynamic Resource Provisioning for Deadline and Budget Aware Workflow Scheduling in IaaS Clouds.** at 16th International Conference on Information Processing (ICInPro-2021), 23 October 2021, University Visvesvaraya College of Engineering, Bangalore University, Bangalore.

[5] Received best paper award for the paper **Ethereum MongoDB: Integrating Blockchain with Non-Relational Databases** at 4th International Conference on Computational Intelligence & Data Engineering (ICCIDE-2021), 14 August 2021, VIT-AP University, Andhra Pradesh.

[6] Elected to the grade of **Senior Member, ACM** United States of America. July, 29 2021.

[7] Received International research grant award for the project **Secure and dynamic privacy-preserving public auditing schemes for IOT enabled data in clouds** from PMU Cybersecurity Research Center, Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia, April, 07 2021.

[8] Received best paper award for the paper **Correlated high average-utility itemset mining** at 8th International conference on Frontiers of Intelligent computing: Theory and Applications (FICTA-2020), 04-05 January 2020, National Institute of Technology, Surathkal, Karantaka.

[9] Received **Empowerment and Equity Opportunities for Excellence in Science Award for the project Machine Learning based Agriculture Advent for Farmer Activity Development in India: An Application Approach** from Science and Engineering Research Board (SERB), Govt. of India. January 2019.

[10] Received **Best Researcher of the Year 2018** International award Idamas Learning Center, Malaysia. Under the agies of "Research Under Literal Access" August, 15 2018.

[11] Elected to the grade of **Senior Member, IEEE** United States of America. February, 16 2019.

[12] Received **"Outstanding Scientist in Computer Science 2018"** International award Venus International Foundation, India F. No. AAP-V/2018/O-ENNC2344, August, 11 2018

[13] Received Early Career Research award for the project **Precision Agriculture Model to Increase Crop Productivity in India using Big Data** from Science and Engineering Research Board (SERB), Govt. of India. Grant Number: ECR/2017/001273, June 2017.

[14] Received best paper award for the paper **IDPC-XML: Integrated Data Provenance Capture in XML** at International conference on Latest Advances in Machine Learning and DAta Science (LAMDA - 2017), National Institute of Technology, Goa.

[15] Received best paper award for the paper **Accelerating Airline Delay Prediction based P-CUDA Computing Environment** at International conference on Latest Advances in Machine Learning and DAta Science (LAMDA -2017), National Institute of Technology, Goa.

[16] Received best paper award for the paper **An Integrated Query Processing Approach for Transaction Protocols in Heterogeneous Distributed Database Environment** from Interscience Research Network (IRNet), Bhubaneswar (INDIA), November 2011.

Research Funding History:

[1] **Information Security Education and Awareness (ISEA) Phase - III. Sponsored by Ministry of Electronics and Information Technology (MeitY), Govt. of India**. (Co-Investigator). **(2024-2029) [Cost: Rs. 2,01,60,000.00]**. (On Going).

[2] **Solving the medicine price tampering supply chain struggle with blockchain: design of pharma drug model. Under Cybersecurity Center research grant. Sponsored by Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia**. (As a sole PI). **(2022-2024) [Cost: $ 5000.00]**. (Completed).

[3] **Secure and dynamic privacy-preserving public auditing schemes for IOT enabled data in clouds.**

Under Cybersecurity Center research grant. Sponsored by Prince Mohammad Bin Fahd University, Kingdom of Saudi Arabia. (As a PI). **(2021-2022) [Cost: $ 6000.00]**. (Completed).

[4] **Machine Learning based Agriculture Advent for Farmer Activity Development in India: An Application Approach. Under Empowerment and Equity Opportunities for Excellence in Science (EEQ) scheme. Sponsored by DST(SERB), Govt. of India**. (As a sole PI).
(2019-2022) [Cost: Rs. 20,46,500.00]. (Completed).

[5] **Precision Agricultural Model to Increase Crop Productivity in India using Big Data. Under Early Career Research (ECR) scheme. Sponsored by DST(SERB), Govt. of India**. (As a sole PI).
(2017-2020) [Cost: Rs. 18,04,221.00]. (Completed) .

[6] **An Atomic Transaction Scenario for Heterogeneous Distributed Databases – A Synonym Application Approach for Reservation System. Sponsored by TEQIP-II(MHRD), Govt. of India.
(2014-2015) [Cost: Rs. 100000.00]**.(As a sole PI). (Completed) .

Consultancy Project Funding History:

[1] **Ethereum and Smart Contracts - DApps Development (Live lectures and content creation), Tata Consultancy Services, India**. **Project No. : EDP/6/35/2023-24 (21-02-2024) [Cost: Rs. 253700.00]**. (CI)

[2] **Content creation and live lectures on Ethereum and Smart Contracts - DApps Development, Tata Consultancy Services, India**. **Project No. : EDP/7084/2023-24 (28-06-2023) [Cost: Rs. 322750.00]**. (CI)

[3] **Enterprise solution constructs for CMPF portal - Coal Mines Provident Fund, Govt. of India**. **Project No. (R) : CONS/6034/2020-21 (18-01-2021) [Cost: Rs. 531000.00]**. (Co-CI)

Executive Development Programs History:

[1] **Online Workshop: Conceptual Blockchain: An Application Portfolio** , **(21, September, 2023)**. (As a Coordinator).

[2] **ST Webinar: Cloud and Network Security Mechanisms, Sponsored by ISEA Project Phase-II, MieTy, Govt. of India**. **(02-06, November, 2020)**. (As a sole PI).

[3] **STC: Conceptual Big Data, No. CONS/3532/2017-18**. **(07-09, June, 2017)**. (As a sole PI).

[4] **STC: Data Storage and Processing Techniques in Cloud Environment, No. CONS/3214/2016-17**. **(01-03, June, 2016)**. (As a sole PI).

Patents Granted & Filed:

[1] **Portable Solar Heater**. (Indian IP - Granted)
Design Number & Date: 378678-001 (01-06-2023).

[2] **Method and Device for Preparing Beverage**. (Indian IP - Granted)
Patent Number & Date: 202231039594 A (29-07-2022).

[3] **A system and a method for assessing mental ability of a user using an electroencephalogram**.
Patent Number & Date: 2021102774 (16-03-2022). (Australian IP - Granted).

[4] **Smart electricity saving system for home**. (Australian IP - Granted).
Patent Number & Date: 2021100118 (31-03-2021).

[5] **A Device for removing lacunas of existing image using in-painting techniques**. (Indian IP)
CBR Number & Date: 201931051249 A (11-12-2019). (Granted)

Recent Professional Activities:

[1] Organized a workshop on **Conceptual blockchain: An application Portfolio (CBC-2023)**, **Indian Institute of Technology (ISM), Dhanbad**, 21 September, 2023.

[2] Established an association with the **Tata Consultancy Services (TCS)**, as an academic SME for **Ethereum and Smart Contracts (Blockchain Course)** (20 June 2023).

[3] Established a collaboration with the **University of Economics and Human Sciences, Warsaw, Poland**, as a visiting academician and researcher (15 June 2023).

[4] Guest Editor (Special Issue) on "Artificial Intelligence/Machine Learning in Wireless Communications and Networking" Journal of Telecom, **MDPI**, (ISSN 2673-4001), 15 March 2023.

[5] Guest Editor (Special Issue) on "AI Powered Human-centric Computing with Cloud and Edge" Journal of Computers, Materials & Continua, **Tech Science Press**, (ISSN:1546-2218), 01 March 2023.

[6] Organizing Chair (Special Session on Blockchain) at 2nd Int. Conference on Emerging Techniques in Computational Intelligence, ICETCI 2022: **Mahindra University, Hyderabad, India**, 25-27 August, 2022.

[7] Publication Chair of 4th ISEA Virtual Int. Conference on Security and Privacy 2021 (ISEA-ISAP 2021): **Indian Institute of Technology (Indian School of Mines), Dhanbad**, 27-30 October 2021.

[8] Organizer (Special Session on Communications and Networking) at 22nd Int. conference on High Performance Computing and Communications, HPCC-2020: **Shangri-La's Fijian Yanuka Island, Coral coast, Fiji**, 14-16 December, 2020.

[9] Coordinator AMDOCS Innovation Lab 2019: **Indian Institute of Technology (ISM), Dhanbad**, 6 April, 2019.

[10] Organized HACKFEST'18: **Indian Institute of Technology (ISM), Dhanbad**, 23-25 March, 2018.

[11] **Organizing Co-Chair of 4th Int. Conference** on Recent Advances on Information Technology (RAIT-2018), **Indian Institute of Technology (ISM), Dhanbad**, 15-17 March 2018.

[12] **Organized Intel® Nervana™ AI Academy Student Workshop**, Under Student development program by **INTEL Artificial Intelligence**, 6th, September, 2017.

[13] **Organizing Co-Chair of 3rd International Conference** on Recent Advances on Information Technology (RAIT-2016), **Indian Institute of Technology (ISM), Dhanbad**, 15-17 March, 2016.

[14] **Program Committee member and Reviewer** of International Conference on Computing Communication and Automation (ICCCA-2016), Galgotia University, 29-30 April 2016.

[15] **Technical session co-chair of World Congress on Information and Communication Technology (WICT-12)**, Indian Institute of Information Technology (IIIT-M), Oct. 30 2012-Nov. 2, India.

[16] **Technical session co-chair** of 1st Int. Conference Recent Advances on Information Technology (RAIT-2012), RAIT-2012, IIT(ISM), Dhanbad.

Supervision (Ph.D)

Awarded & Submitted:

Year	Name	Area of Study
2023-Cont.	**Amit Kr. Upadhyay**:	Modelling Exascale Computing Paradigms - **(On Going)**.
2017-2023	**Debdadata Naik**:	Study and Design of Computational Strategies for Social Network Analysis. (Awarded: May 2024). **(Works @ University of Economics and Human Sciences, Warsaw, Poland)**.
2018-2023	**Rahul Mishra**:	Developing Security Paradigms for Secure and Efficient Data Storage in Cloud Environment. (Awarded: May 2023). **(Works @ National Institute of Advanced Manufacturing Technology, Ranchi)**.
2017-2022	**Rashmi Priya**:	Study and Optimization of Big Data Processing Models for Crop Productivity in India. (Awarded: June 2022). **(Postdoctoral @ Columbia, USA)**.
2017-2022	**Naela Rizvi**:	Study and Provisioning Resource Management Modalities in Cloud Environment. (Awarded: April 2022) **(Works @ Techno Main Salt Lake)**.
2015-2023	**Shashi Raj**:	Study and Development of Spark-based Frequent Itemset Mining Algorithms. (Awarded: July 2023). **(Works @ Bakhtiyarpur College of Engg., Govt. College, Patna)**.
2016-2023	**G Madhukar Rao**:	Study and Visualization of Big Data using Machine Learning Algorithms. (Awarded: July 2023). **(Works @ KL University, Hyderabad)**.
2015-2021	**Krishan Kr. Sethi**:	Study and Development of Pattern Mining Techniques for Standalone and Distributed Environment. (Awarded: Sep 2021) **(Works @ National Institute of Technology, Patna)**.
2015-2021	**Thakur Santosh**:	Study of Knowledge Capturing and Analysis of Big Data. (Awarded: June 2021). **(Works @ Mahindra University, Hyderabad)**.

Supervision (Post Graduate - Thesis)

[2024-2025]:

   [1] Abhishek Prasad Dad - 23MT0015. "Cross-chain Inter-operable Blockchain." **On Going**.

   [2] Uma Shankar Prasad - 23MT0429. "Modelling Distributed Applications." **On Going**.

[2023-2024]:

   [1] Manojit Dinda - 22MT0210. "Cross-chain Compatibility in Healthcare using Relay as a Service for EHR sharing."

   [2] Sai Sampath Kolla - 22MT0347. "Hybrid Grey Wolf Algorithmic Approach for Optimizing Workflow Scheduling in IaaS Clouds."

[2022-2023]:

   [1] Ankit Kachhi - 18JE0127. "Digital Certificates and Marksheet verification System using Blockchain Technology."

   [2] Arudra Vamshikrishna - 21MT0073. "Federated learning enabled blockchain strategy for securing healthcare data."

[2021-2022]:

   [1] Chitresh Kasushik - 20MT0130. "Perception model for lateral control of autonomous vehicles."

   [2] Sikandar Kumar - 20MT0399. "Supply chain management in blockchain."

   [3] Tanu Gupta - 20MT0425. "Gene Determination Algorithm: a blockchain-based case study of crypto kitties."

[2020-2021]:

   [1] Sneha Sarkar - 19MT0383. "Blockchain based COVID-19 vaccine supply chain management."

   [2] Rajeev Kumar - 19MT0304. "Implementation of blockchain based Pharmaceutical supply chain management system."

   [3] Rohan Sai M - 16JE002272. "Classification of COVID-19 using chest X-RAY."

[2019-2020]:

   [1] Naveen Babu Gorojanam - 18MT0074. "Enhanced link prediction using sentiment attribute and community detection."

   [2] Jayaramu H K - 18MT0418. "Optimization of cropping pattern using CSA."

   [3] Vinay Kumar - 18MT0217. "Ensemble based multiclass classification for Cancer Data."

   [4] Yatesh Kumar Singh - 18MT0031. "Taxi demand prediction using combining text and time series data."

   [5] Suryadeep Singh - 17MT002014. "Optimisation on Grassmann manifold using faster conjugate gradient."

   [6] Akhil bhatia - 17KT000226. "Recommendation of MOOCs using sentiment analysis."

   [7] Nidhi Jaiswal - 17KT000130. "Weighted similarity based link prediction in social networks."

   [8] Rohith Kumar - 17KT000294. "Evaluating big data in healthcare using Machine Learning."

[2018-2019]:

[1] Shailesh Kumar - 17MT002258. "Score based Predictive modelling for health datasets."

[2] Pooja Ayanile - 17MT002215. "3D bin packing strategy for heterogeneous bins."

[3] Dharavath Vinod Kumar - 17MT002272. "Middleware solution for NoSQL column family databases."

[4] Shalini Tripathi - 17MT002266. "Ourlier detection in spatio-temporal data using advanced hehavioural clustering."

[5] Ekaansh Khosla - 14JE000069. "Using seasonal ARIMA to forecast fruits and vegetables."

[6] Aniket Gajanan Ninawe - 14JE000545. "Machine Learning approach for water solid interaction."

[7] Ritik Kumar Agrahari - 14JE000517. "Facial feature segmentaion in the wild."

[8] Rishav Raj - 14JE000040. "Machine learning strategies for yield prediction."

[2017-2018]:

[1] Abhishek Kumar - 16MT001322. "Ranger random forest based data classification."

[2] Himanshu Khurana - 16MT001233. "Class balancing based logistic regression approach for personalized cancer diagnosis using gene variation data."

[3] Kajal Kumari - 16MT001321. "Parallel CNN based big data prediction and visualization for traffic monitoring."

[4] Naval Singh Arora - 16MT001232. "GraphX based link prediction for social communication using triangle counting: a big data scenario."

[5] Rahul Kumar - 16MT000922. "NSL model based prediction approach: a review of amazon products."

[6] Sweta Dey - 16MT001425. "HFQ-LB: Heuristic and fair-queuing based VM load balancing approach for cloud data centers."

[7] Yogendra Singh - 16MT000855. "An ensemble method based predictive model for analyzing disease datasets."

[8] Anindita Mazumdar - 15KT000042. "High utility itesmset mining and pruning candidates for multi source data."

[2016-2017]:

[1] Parth Sinha - 15MT000429. "Big data storage paradigms."

[2] Sandeep Kumar - 15MT000483. "Towards middle layer based transaction support for column family No-SQL databases."

[3] Himangshu Biswas - 15MT000469. "Feature extraction classification using MapReduce based multi-class support cector machine on hadoop cluster."

[4] Aakrithi Srivastava - 15MT000280. "Dynamic data virtualization based VM's scheduling for distributed data centers."

[5] Samuel Nyakotey - 15IM000005. "MapReduce based integration of health hubs: A healthcare design approach."

[6] Urvashi Tomar - 15MT000321. "Harnessing cloud data security based IBE, IBS, IBPRE, IDBPSE on CDH schemes with ACKIBE ."

[2015-2016]:

[1] Rahul Mishra - 14MT000396. "Secure data storage in cloud: an e-stream cipher-based secure and dynamic updation policy."

[2] Rashmi Priya sharma - 14MT000368. "HHDSCC: Harnessing healthcare data security in cloud using ciphertext policy attribute based encryption."

[3] Lokendra Saini - 14MT000038. "Predictive analysis based machine learning."

[4] Pranshu Suraj - 14MT000031. "Supporting join based expectation maximization in NoSQL using MapReduce for healthcare management."

[2014-2015]:

[1] Nayak Nikunj K B - 2013MT0218. "Dynamic data deduplication in loud environment."

[2] Abhishek Kr. Singh - 2013MT0276. "Entity resolution for large datasets."

[3] Mahesh Kumar - 2013MT0068. "Task Scheduling in Cloud computing environment."

[4] Mahesh Kumar - 2013MT0068. "Task scheduling in cloud computing environment."

[2013-2014]:

[1] Pankaj Kumar - 2012MT0229. "Query optimizatioin in heterogeneous distributed databases."

[2] Avinash K Sinha - 2012MT0070. "Fragment allocation scenario in a distributed database environment."

[3] Alok Kumar Pani - 2012MT0224. "A load balancing and estimation scenario for heterogeneous distributed computing."

[2012-2013]:

[1] Vikas Kumar - 2011MT0125. "An incremental fragmentation scenario for heterogeneous distributed transactions."

[2] Amit Kr Jain - 2011MT0006. "A transaction model to provide atomicity for heterogeneous distributed databases."

Publications:
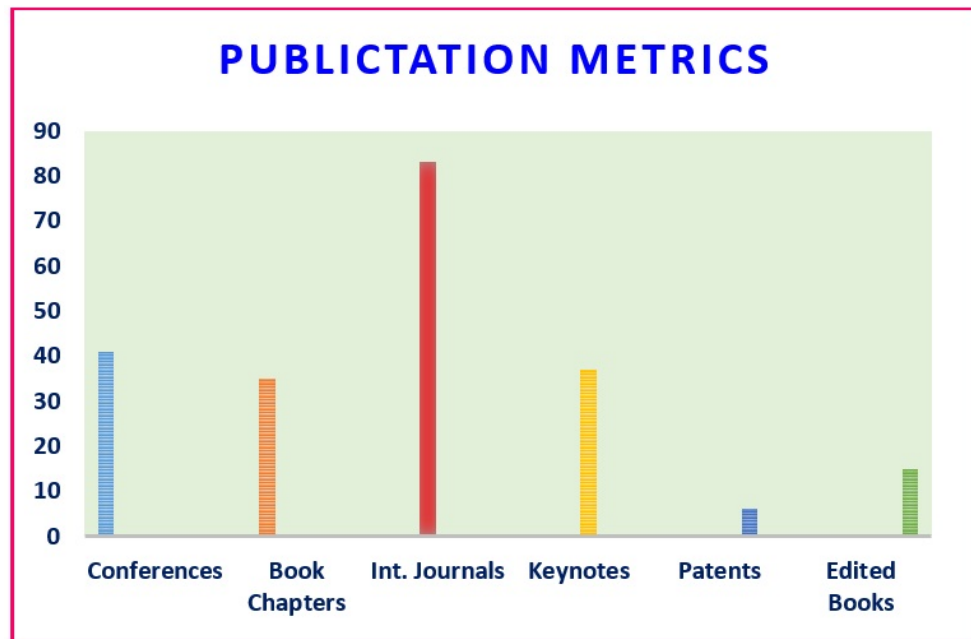
Int. Journals [published/Accepted]:

$J1.$ **Dharavath Ramesh**., Naela. R., Srinivasa Rao P. C., Sundararajan. E., Koushik. M., Srivastava. G., & Lianyong Qi. (2024). Improved Chemical Reaction Optimization with Fitness based Quasi-reflection Method for Scheduling in Hybrid Cloud-Fog Environment. IEEE Transactions on Network and Service Management. Vol. 21, Issue 1, February 2024. IEEE.

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$BC34$ **Dharavath, R**., Jain, A. K., Kumar, C., & Kumar, V. (2014). Accuracy of Atomic Transaction Scenario for Heterogeneous Distributed Column-Oriented Databases. In Intelligent Computing, Networking, and Informatics (pp. 491-501). Springer India. DOI: 10.1007/978-81-322-1665-0 47.

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$BC36$ Chiranjeev Kumar, Haider Banka & **Dharavath Ramesh** "Recent Advances in Information Technology", (Proceedings of the 3rd IEEE Int. Conference RAIT-2016, March 03-05, 2016, Vol. I & II, IIT(ISM), Dhanbad, India), 2016, ISBN: 978-1-4799-8578-4.

Peer Reviewed Conferences [Published/Accepted]:

$C1$. Manojit D., **Dharavath Ramesh**., and Chi Hieu Li. (2024). Redactable Blockchain-based EHR Enhancement Utilising Extended Chameleon Hashing and Additional Trapdoor Functionality. In 5^{th}th Int. Conference on Data Analytics and Management (ICDAM-2024), June 14-15, London Metropolitan University, London, United Kingdom by Springer Proceedings. [Accepted].

$C2$. Srikanth. B., **Dharavath Ramesh**., and Debadatta Naik. (2024). ML-based Roof Convergence Safety in Underground Coal Mines: An Ideological Approach. In Int. Conference on Communication Safe, Smart and Sustainable Mining (3SM-2023). December, 16-18, 2023. Springer. [Accepted].

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High Esteem Factors:

Ph.D./ M.S Thesis Reviewed:

[1] **M Asha Kiran (405118007):** Lightweight and Secure Signcryption Schemes for Cloud-Assisted IoT. (May 2024) - Department of Computer Applications, National Institute of Technology, Tiruchirapalli, Tamilanadu, India.

[2] **V S S K R Naganjaneyulu Gudapati (155074EC15P02):** Development of Smart Strategies and Devices for Technical Analysis in various Market Paradigms. (January 2024) - Department of Electronics and Communication Engineering, National Institute of Technology, Surathkal, Manglore, Karnataka, India.

High Esteem Factors

- Thesis reviews: 27%
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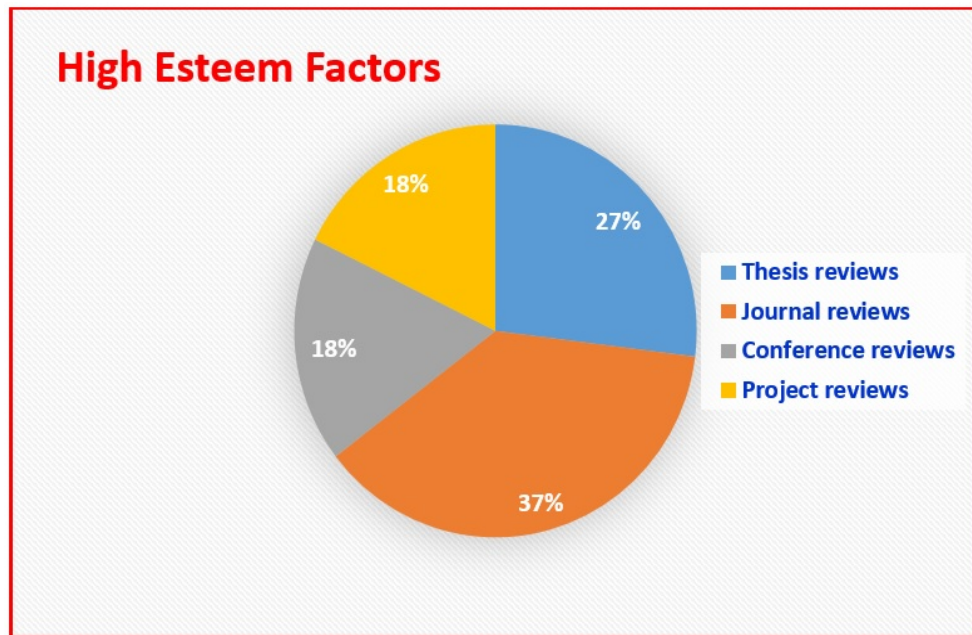
[3] **Ravi Sankar Puppala (719067):** Triboelectric Nanogenerator Device Development Analysis and Prediction for Energy Harvesting. (January 2024) - Department of Electronics and Communication Engineering, National Institute of Technology, Warangal, Telangana, India.

[4] **V. Nagarjuna (Reg.No CS1414):** An Improved Healthcare Data Transmission in Cloud using Connected Dominating Set-based Algorithm. (December 2023) - Department of Computer Science and Engineering, Hindustan Institute of Technology and Science, Padur, Chennai, Tamilnadu India.

[5] **Manjunatha (155102CS15FV07):** Real time Big data analytics for public safety in Smart city. (September 2023) - Department of Computer Science and Engineering, National Institute of Technology, Surathkal, Manglore, Karnataka, India.

[6] **Siranjeevi R (406117004):** A Study on Insider Attacks Prevention using ECC and PUF based Authentication Protocols. (January 2023) - Department of Computer Science and Engineering, National Institute of Technology, Tiruchirappalli, Tamilnadu, India.

[7] **Salvi Sanket Sarang (177045IT001):** Framework for efficient modulation techniques for visible light communication under indoor environment based IoT applications. (December 2022) - Department of Computer Science and Engineering, National Institute of Technology, Surathkal, Manglore, Karnataka, India.

[8] **R M Noorullah (183030058):** Hybrid Topic Models for Twitter-Based Data Clustering with Multi-viewpoints Cosine-Based Similarity Metrics. (December 2022) - Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhrapradesh, India.

[9] **N. Aravind Kumar (01121841PP):** Securing User Databases from SQL Injection Attacks using Enhanced Machine Learning Algorithms. (November 2022) - Department of Computer Science and Engineering, Osmania University, Hyderabad, Telangana, India.

[10] **Gadde Ramesh (CN032200228):** BotRansack to detect the IRC, HTTP and P2P botnets based on association between host behaviors and network behaviors using Machine Learning. (November 2022) - Department of Computer Science and Engineering, Osmania University, Hyderabad, Telangana, India.

[11] **Pradeep Kanchan (155055MA15F05):** Improved Nature Inspired Algorithms For Optimization Problems In Wireless Sensor Networks. (May 2022) - Department of Computer Science and Engineering, National Institute of Technology, Surathkal, Manglore, Karnataka, India.

[12] **Manepalli Ratna Sri (2004101004)-MS (Research):** IMAGE CLASSIFICATION USING DEEP NEU-RAL NETWORKS - Applications in Biometrics and Medical Diagnostics. (August 2022) - Department of Computer Science and Engineering, Indian Institute of Technology, Indore, Madhya Pradesh, India.

[13] **Kundrapu Sivani (20MCMB21) - Master's Thesis:** Multi Agent Reinforcement Learning Framework For IoT Mircoservice Deployment For Edge Cloud. (July 2022) - Department of Information Technology, Univesity of Hyderabad, Hyderabad, Telangana, India.

[14] **Swathi Ajjarapu (20MCMB20) - Master's Thesis:** Blockchain based Certificateless Privacy Preserving Public Auditing for Cloud Storage Systems. (July 2022) - Department of Information Technology, Univesity of Hyderabad, Hyderabad, Telangana, India.

[15] **P. Satya Gouri Aruna Sri (2004101004):** Consensus Mechanisms for Sharing Healthcare Data using Blockchain Technology. (July 2022) - Department of Computer Science and Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, India.

[16] **Shankar Nayak Bhukya (101900086):** An Effective Risk Analysis in Requirement Engineering using modified Goal Risk Model. (Feb 2020) - Department of Computer Science and Engineering, Osmania University, Hyderabad, Telangana, India.

Keynotes & Invited Talks:

[1] Amalgamation of Machine Learning and Blockchain: A Conceptual learning mechanism - "National workshop on Blockchain and Machine Learning Applications" (29 Feb-02 March 2024), by Department of Computer Science and Engineering, Sambalpur University Institute of Information Technology, Sambalpur, Odisha, March 01, 2024.

Adversarial and Conceptual Machine Learning - One Week National Faculty Development Program on "Essential Mathematics for Data Science & Machine Learning" (05-09, February 2024), by Department of AI and ML, Chaitanya Bharathi Institute of Technology, Hyderabad, India, February 07, 2024.

[2] Conceptual Machine Learning: An application Paradigm - Faculty Development Program on "Data Science and Data Analytics using Python/R Programming" (21-25, August 2023), by Electronics and ICT Academy, IIT Roorkee, ABES Engineering College, Ghaziabad, India, August 24, 2023.

[3] Blockchain Integration with Cloud Databases - International FDP (20th June 2023 – 22nd June 2023) on "Research Directions in Computer Science AI - A Multidisciplinary and Practical Perspective", Woxsen University, Hyderabad, Telangana, India, June 21, 2023.

[4] Big Data Analytics with Cyber Security Challenges and Solutions - One Week Faculty Development Program on Machine on Learning in Big Data Applications and Security Challenges, MLR Institute of Technology (MLRIT), Hyderabad, Telangana, India, March 25, 2023.

[5] How to Write a Quality Research Paper - Under the regular seminar series of "Innovative Learning", Mizan-Tepi University, Department of Information Technology, Ethiopia, 8, April 2023.

[6] Optimal Allocation of Surface Water and Groundwater Resources for Crop Production - VII International Conference on "Sustainable Energy Environmental Challenges", IIT-BHU, Varanasi, 16-18, December 2022.

[7] Redactable Blockchain based Enabling Secure Public Auditing for Cloud Storage - ATAL FDP on "Blockchain in Smart City: Emerging Technologies for the Next Decade and Beyond", NIT, Raipur, India, 23, September 2022.

[8] Secure Decentralized Public Auditing for Cloud Storage: A Redactable Blockchain Approach - Electronics and ICT Academy sponsored FDP on Emergence of Blockchain and its Applications, SRM University, Chennai, India, 04, August 2022.

[9] Optimization Strategies and Particle Swarm Optimization in Agriculture - DST-SERB sponsored high end workshop "KARYASHALA" on "Statistical and Machine Learning Techniques for Agricultural Systems Modeling and Forecasting using R, ICAR- Indian Institute of Rice Research Hyderabad, Telangana, India, 18-30, July 2022.

[10] Introduction to Bitcoin: Blockchain Architecture - Electronics and ICT Academy sponsered FDP on Emergence of Blockchain Technology and Cryptocurrencies, National Institute of Technology, Warangal, Telangana, India, 02-11, May 2022.

[11] SALP Swarm Optimization for Data Analytics - ATAL Academy Sponsored Online FDP on "Bio-Inspired Computing for Data Analytics", Department of Information Technology, Lakireddy Bali Reddy College of Engineering (Autonomous), Hyderabad, India, 08-12 February, 2022.

[12] Conceptual Deep Learning - AICTE-ISTE sponsored refresher Program on "Recent Advancements in Deep Learning", Anurag Engineering College, Kodad, Telengana, India, 07-12 February, 2022.

[13] Computational intelligence for social network analysis - ATAL Faculty Development Program on "Computational Intelligence", National Institute of Technology, Agartala, Tripura, 03-07 January, 2022.

[14] Research scope of IoT in Healthcare and Human-Computer Interaction - ATAL Faculty Development Program on "Internet of Things and Human Computer Interaction", National Institute of Technology, Goa, 25-29 October, 2021.

[15] Blockchain Paradigms for Securing Cloud Storage - National Workshop on "Computational Intelligence and Blockchain Technology (CIBT-2021)", National Institute of Technology, Raipur, 4-8 October, 2021.

[16] Formalizing Cloud Storage With Blockchain - ATAL Academy sponsored FDP on "The impact of Quantum Computing on Cryptography and Blockchain Technology", GITAM (Deemed to be univeristy), Hyderabad, India, September 13-17, 2021.

[17] Cloud Resource Management: Scheduling and Challenges - AICTE & ISTE sponsored FDP on Recent Trends in Cloud Computing, DRIMS Enginnering College, Cuttack, Odisha, India, September 06-12, 2021.

[18] ML and Optimization Strategies for Agriculture: Challenges and Issues - FDP on Machine Learning & Data Science for Engineering Applications, National Institute of Technology, Warangal, Telangana, India, Aug 23-Sep 2, 2021.

[19] Artificial Neural Networks: Concepts and Challenges - FDP on Machine Learning & Data Science for Engineering Applications, National Institute of Technology, Warangal, Telangana, India, Aug 10-12, 2021.

[20] Conceptual Machine Learning Strategies: An Application Approach - STTP on Machine Learning - Recent Trends and Applications, Srinivasa Ramanujan Institute of Technology, Anantapuram, Andhra Pradesh, India, June 21-26, 2021.

[21] Conceptual Modalities in Blockchain Technology - Online Webinar on Blockchain, Sri Indu Institute of Engineering & Technology, Hyderabad, Telangana, India, June 11, 2021.

[22] Blockchain-as-a-Service: A Cybersecurity Solution - One Week ATAL Sponsered FDP on Blockchain, Kakatiya Institute of Technological Sciences (KITS), Warangal, Telangana, India, January 26, 2021.

[23] Blockchain for Cybersecurity: A Solution approach - One Week ATAL Sponsered FDP on Cybersecurity, Osmania University, Hyderabad, Telangana, India, January 20, 2021.

[24] Next Generation Twin Technologies: An Application Approach in Healthcare - One Week STTP on Recent Trends in IOT, Anurag Engineering College, Kodad, Telangana, India, November 25, 2020.

[25] Regression and Correlation Methods: Business Forecasting and Planning - Faculty Short Training Program on Machine Learning and Deep Learning Techniques for Artificial Intelligence Problems using Python, VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad, India, November 18, 2020.

[26] Cloud Security Mechanisms: A Blockchain Conceptual Approach - Faculty Training Program on Blockchain Teechnology and Crypto Currency, Sanjeevani College of Engineering, Kopagaon, India, November 7, 2020.

[27] ML and IOT emergence for Healthcare - Short Term Training Program on Internet of Things in Healthcare Application, Dr. N.G.P Institute of Technology, Coimbatore, India, October 21, 2020.

[28] Security Mechanisms in Cloud - Faculty Development Program on Cloud Computing, Vagdevi College of Engineering, Warangal, India, September 08, 2020.

[29] Cloud Storage: A Design Approach - National Webinar on Cloud Storage, Vagdevi College of Engineering, Warangal, India, August 01, 2020.

[30] Cyber Security Paradigms: Webinar on Digital Cyber, K.B. Women's college, Hazaribag, May 17, 2020.

[31] Data Mining: Concepts and Techniques: 10th lecture of the Gurunanak Dev Lecture series on Data Mining & Applications, Gurunanak College, Dhanbad Campus, January 21, 2020.

[32] Data Intesive Computing: Methods and Applications: Short Term Training program on Internet of Things, BIT Mesra, Patna Campus, May, 2019.

[33] Big Data Analytics: Methods and Applications: National workshop on Big Data Analytics and Machine Learning, Dr. B.R Ambedkar Institute and Technology, Andaman and Nikobar Islands, April, 2019.

[34] Big Data Mining Paradigms: National workshop on Big Data Analytics, Central University of South Bihar, March, 2019.

[35] Big Data Mining: 4th Annual Research Meet, Chennai, August 2018.

[36] Big Data Processing System for Smart Grid: SVIT, Hyderabad, December, 2017.

[37] Big Data Modelling: SREC, Coimbatore, November, 2017.

[38] Modelling Statistical Big Data: University of Malaysia, September, 2017.

[39] Computational Big Data: Bharath University, March, 2017.

[40] Conceptual Big Data: IPACAT-2017, VIT University, April-2017.

[41] Cloud Computing - An Initiative: Gurunanak Engnineering College, Dhanbad, 2014.

[42] Distributed Databases - An Application Lead: Purushotham Institute of Engineering and Technology - Rourkela, 2012.

Program/Advisory Committee Member:

2024

[1] ISCON-2024: 7th IEEE International Conference on "Information Systems and Computer Networks", 06-07, September 2024. GLA University, Mathura, India.

[2] ITISE 2024: 10th International Conference on "Time Series and Forecasting", 15th-17th, July 2024. Gran Canaria, Spain.

[3] ISSC 2024: International Conference on "Information Society and Smart City", 15th-16th, June 2024. Shanghai, China.

[4] ICISS 2024: International Conference on "Intelligence Systems and Security", 20th-22nd, December 2024. Indian Institute of Engineering Science and Technology, Botanical Garden Area, Howrah, West Bengal 711103, India.

2023

[1] ICMISC 2023: International Conference on "Recent Trends in Machine Learning, IOT, Smart Cities & Applications", 16th-17th, September 2023. CMR Institute of Technology, Hyderabad, India.

[2] PReMI 2023: 10th International Conference on "Pattern Recognition and Machine Intelligence", 12th-15th, December 2023. ISI Kolkata, West Bengal, India.

[3] ITISE 2023: 9th International Conference on "Time Series and Forecasting", 12th-14th, July 2023. Gran Canaria, Spain.

2022

[1] icSoftComp 2022: 4th International Conference on "Soft Computing and its Engineering Applications", 9th-10th, December 2022. Charotar University of Science and Technology (CHARUSAT), Gujarat, India.

[2] ITISE 2022: International Conference on "Time Series and Forecasting- ITISE", 27th-30th, June 2022. Gran Canaria (Meloneras), Spain.

[3] iCOMPUTER 2022: International Conference on "intelligent COMPUting TEchnologies and Research (iCOMPUTER-2022)", 5th-7th, December 2022. National Institute of Technology, Puducherry, India.

[4] ICRAIE 2022: 7th International Conference on "Recent Advnces and Innovtions in Engineering- ICRAIE", 1st-3rd, December 2022. National Institute of Technology, Surathkal, Karnataka, India.

[5] CINE-2022: International Conference on "Computational Intelligence and Networks (CINE)", 9th-10th October, 2022. KIIT Deemed to be University, Bhubaneswar, India.

[6] ICCINS-2022: 1st International Conference on "Computational Intelligence and Network Security (IC-CINS)", 3rd-4th March, 2022. National Institute of Technology, Raipur, India.

2021

[1] ITISE-2021: International Conference on Time Series and Forecasting- ITISE 2021, 19th-21th July, 2021. Gran Canaria (Meloneras), Spain.

[2] BIHI-2021: 2021 International Conference on Biomedical Informatics and Health Informatics (BIHI 2021), Hangzhou, July 23-25, 2021, China.

[3] ICCIIS-2021: International Conference on Computational Intelligence and Innovative Systems - ICCIIS-2021, 19th-21th July, 2021. Dr. Sudhir Chandra Sur Institute of Technology Sports Complex, Kolkata, India.

[4] ISCON-2021: 5th International Conference on Information Systems & Computer Networks (ISCON-2021), GLA University, Mathura, Uttarpradesh, October, 2021, India.

[5] ICCIML-2021: 1st International Conference on Computational Intelligence in Machine Learning (IC-CIML 2021), Bengaluru, 1-2 June, 2021, India.

2020

[1] BLOCKCHAIN 2020: 3rd IEEE International Conference on Blockchain (Blockchain 2020), Rhodes Island, Greece, 02-06 December, 2020, Greece.

[2] ICACT 2020: International Conference on Advanced Computing Technologies (ICACT 2020), CMR Engineering College, Telangana, Hyderabad, 12-13 December, 2020, India.

[3] ICCS 2020: 5th International Conference on Computing Sciences (ICCS 2020), Lovely Professional University, Punjab, Jalandhar, 10-11 April, 2020, India.

[4] ICDSAA-20: 3rd International Conference on Data Science Application and Analytics (ICDSAA 2020), Meerut Institute of Engineering & Technology, Uttar Pradesh, 4-5 April, 2020, India.

[5] IndoData 2020: International Conference on Intelligent Data & Communication (IndoData 2020), CMR Institute of Engineering & Technology, Hyderabad, 2020, India.

2019

[1] DISCOVER'19: IEEE International Conference on Distributed Computing, VLSI, Electrical Circuits and Robotics, Manipal Institute of Technology, Surathkal, Mangalore, August 11 - 12, 2019, India.

2018

[1] ICIIT 2018: 3rd International Conference on Intelligent Information Technologies, Anna University, Chennai, 11-14 December 2018, India.

[2] TEAMC 2018: International Conference on Towards Extensible and Adaptable Methods in Computing-TEAMC 2018, 26-28 March 2018, Netaji Subhas Institute of Technology (NSIT), New Delhi.

[3] ICACA 2018: 1st International Conference on Advances in Computing and Applications, 26-27 February 2018, National Institute of Technology, Uttrakhand, India.

[4] ICD-BDCS 2018: 9th Annual International Conference on ICT: Big Data, Cloud and Security, 27-28 August 2018, Singapore.

2017

[1] ICIIT 2017: 2nd International Conference on Intelligent Information Technologies, Anna University, 6-8 September 2017, India.

[2] ICGCIoT 2017: 2nd International Conference on Green Computing and Internet of Things, 16-18 November 2017, Galgotia College of Engineering and Technology (GCET), Greater Noida, New Delhi.

[3] LAMDA 2017: 1st International Conference on Latest Advances in Machine Learning and Data Science, 25-27 October 2017, National Institute of Technology, Goa, India.

[4] ICEEMS 2017: 1st International Conference on Electrical, Electronics, Materials and Applied Science, 22-23 December 2017, Swami Vivekananda Institute of Technology (SVIT), Secunderabad, Telangana, India.

2016

[1] ICCCA 2016: IEEE International Conference on Computing Communication and Automation (ICCCA-2016), Galgotia University, 29-30 April, 2016.

[2] BDAW 2016: International conference on Big Data and Advanced Wireless technologies, 10-11 November 2016, American university, Bulgaria.

[3] RAIT 2016: 3rd IEEE International conference on Recenet Advances in Information Technology, 3-5 March 2016, Indian School of Mines, Dhanbad, India.

2015

[1] ICCCA 2015: IEEE International conferene on Computing, Communication & Automation, 15-16 May 2015, Galgotia University, India.

2014

[1] ICACCI 2014: 3rd IEEE International conference on Advances in Computing, Communication, and Informatics, 24-27 September 2014, Galgotia College of Engineering Technology (GCET), Greater Noida, India.

[2] ICCCT 2014: 5th International conference on Computer and Coommunication Technology, 26-28 September 2014, Motilal Nehru National Institue of Technology (MNNIT), Allahabad, India.

2013

[1] ADCONS 2013: 2nd International Conference on Advanced Computing, Networking and Security, 15-17 December 2013, National Institute of Technology Surathkal, Karnataka, India

[2] CCSN 2014: 3rd International Conference on Computing, Communication and Sensor Network, 12-14 December 2014, International Association of Science, Purushottam Institute of Engineering and Technology, Rourkela, Odisha,India.

[3] CCSN 2013: 2nd International Conference on Computing, Communication and Sensor Network, 23-24 November 2013, International Association of Science, Dharmatala, Kolkatha, India.

[4] ICACCI 2013: 2nd International Conference on Advances in Computing Communications and Informatics, 22-25 August 2013, Sri Jayachamarajendra College Of Engineering (SJCE), Mysore, India.

2012

[1] CCSN 2012: 1st International Conference on Computing, Communication and Sensor Network, 22-23 November 2012, Purushottam Institute of Engineering and Technology, Rourkela, Odisha, India.

[2] NCCCS 2012: National conference on computing and communication systems, November 21 -22 2012, Dr. B.C. Roy Engineering College, Durgapur, India.

Courses Taught/Teaching/Laboratories Established:

Courses:
- Ethereum and Smart Contracts - DApps Development (Collaboration with Tata Consultancy Services)
- Cloud Computing
- Distributed Systems
- Parallel and Distributed Computing
- Computer Programming
- Object Oriented Programming
- Database Management Systems
- Advanced DBMS
- Computer Organization
- High-Performance Computer Architecture
- Soft Computing
- Advanced Operating Systems
- Big Data Analytics

Laboratories:
- Object Oriented Programming
- Computer Programming
- Computer Organization
- Cloud Computing
- Database Management Systems
- Advanced DBMS

Project Laboratory:
- Validation of ML Paradigms
- Blockchain Implementation
- Data Intensive Computing, Big Data Processing
- Validation of Data Mining Patterns

Administrative Activities:

[1] Faculty Coordinator of CSE Society - Indian Institute of Technology (ISM) – June 2020 – Till date.

[2] Member of Departmental Purchase and Audit Committee – January, 2024 – Till date.

[3] In-Charge of Software Lab - June, 2022 – January, 2024.

[4] DAC Secretary - April, 2022 – January, 2024.

[5] Member of Departmental Faculty Screening Committee - December, 2021 – January, 2024.

[6] Faculty In-charge of International activities - April, 2021 – January, 2024.

[7] Member of Departmental Under Graduate Committee – September, 2019 – August, 2022.

[8] Faculty Coordinator – Final year Dual Degree (CSE) – June, 2017 – June, 2022.

[9] Placement In-charge and Coordinator of CSE – June, 2016 - June, 2020.

[10] Faculty Sponsor of ACM - IIT(ISM) Student Chapter –June, 2016- May, 2020.

[11] Faculty Co-Sponsor of ACM - IIT(ISM) Student Chapter – June, 2015 – May, 2016.

[12] Placement In-charge Website Management – June, 2018 - June, 2020.

[13] Core member of Departmental purchase committee – June, 2015 – March 2018.

[14] Coordinator for IIIF –Delhi (3yr. M.Tech CSE) – June, 2018 – March 2019.

[15] Served as Hostel Warden during June, 2014 – May, 2017.

[16] Member of Departmental Board of Courses Studies (BOCS) (2012, 2014, 2017).

[17] Faculty Coordinator - PRATIBIMB-2013.

[18] Core Committee Member of Annual Sports (2012, 2013, 2014, 2016, 2017, 2018, 2019).

Academic Visits (National/International):

[1] *The University of Aberdeen*, Aberdeen, Scotland, United Kingdom. May-June, 2024.

[2] *The University of Southampton*, Southampton, United Kingdom. May-July, 2023.

[3] *ICAR- Indian Institute of Rice Research*, Hyderabad, Telangana, India. February (2-5), 2023.

[4] *Indian Institute of Technology (BHU)*, Varanasi, Utterpradesh, India. Dec 2022.

[5] *ICAR- Indian Institute of Rice Research*, Hyderabad, Telangana, India. July 2022.

[6] *National Institute of Technology*, Farmagudi, Goa, India. December 2021.

[7] *National Institute of Technology*, Surathkal, Karnataka, India. March 2020.

[8] *National Institute of Technology*, Farmagudi, Goa, India. March 2020.

[9] *National Institute of Technology*, Agartala, Tripura, India. September 2019.

[10] *Dr. B R Ambetkar Institute of Technology*, Portblair, Andaman and Nicobar Islands. April 2019.

[11] *National Institute of Technology,* Warangal, Telengana, India. December 2018.

[12] *Agriculture University (PJTSAU),* Hyderabad, India. November 2018.

[13] *National Institute of Technology,* Farmagudi, Goa, India. October 2018.

[14] *University of Malaysia,* Malaysia, 2017.

[15] *University of Barcelona,* Spain, 2012

Reviewer (Int. Journals):

[1] IEEE Transactions on Information Forensics & Security - IEEE.

[2] IEEE Transactions on Automation Science and Engineering - IEEE.

[3] IEEE Transactions on Parallel and Distributed Systems - IEEE.

[4] ACM Transactions on Multimedia Computing, Communications, and Applications - ACM.

[5] IEEE Access - IEEE.

[6] IEEE Transactions on Cloud Computing – IEEE.

[7] IEEE Transactions on emerging topics in computing – IEEE.

[8] Transactions on GIS – Wiley.

[9] IEEE Computational Intelligence Magazine - IEEE Computational Intelligence Society

[10] Journal of Data and Knowledge Engineering – Elsevier.

[11] Computers in Biology and Medicine – Elsevier.

[12] Journal of Systems and Software – Elsevier.

[13] Journal of Network and Computer Applications – Elsevier.

[14] Engineers Australia Technical Journals – Engineers Australia.

[15] Journal of Environment, Development and Sustainability, Springer.

[16] Int. Journal of System Assurance Engineering and Management, Springer.

[17] Concurrency Computation Practice and Experience, Wiley.

[18] Int. Journal of Communication Systems, Wiley.

[19] Journal of Biomedical Engineering, Springer.

[20] Journal of Informatics in Medicine Unlocked, Elsevier.

[21] Journal of Health Information Science and Systems, Springer.

[22] Journal of Medical and Biological Engineering, Springer.

[23] Complex & Intelligent Systems, Springer.

[24] Journal of Super computing, Springer.

[25] Neural Processing Letters, Springer.

[26] Cluster Computing, Springer.

References:

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✉ salil.kanhere@unsw.edu.au