

ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

Shobhavana Campus, Mijar – 574225, Moodbidri.

Dakshina Kannada Karnataka, India



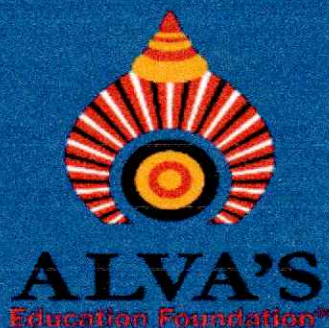
2nd International Conference on Data Analytics & Learning

IC-DAL'22

December 30th & 31st ,2022

Organized by

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(Unit of Alva's Education Foundation (R), Moodbidri)

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi. Recognized by Government of Karnataka.

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Shobhavana Campus, MIJAR-574225, Moodbidri, D.K., Karnataka

Ph: 08258-262725; Mob:722262724,7026262725,mail:principalaiet08@gmail

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

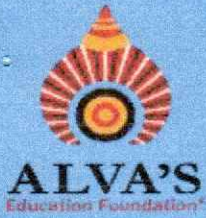
-----ACTIVITY REPORT 2022-23

Alva's Institute of Engineering & Technology

Moodbidri, Mangaluru, Karnataka

COMPUTER SCIENCE & ENGINEERING

(Accredited by NBA New Delhi, 2019-2025)



ORGANISING

2nd International Conference on Data Analytics & Learning (DAL'22)

<https://aiet.org.in/icdal2022>

in Association with

Department of Studies in Computer Science,
University of Mysore, MYSURU

30th Dec & 31st Dec, 2022

VENUE: Alva's Institute of Engineering & Technology,
Moodbidri

Registration Fees for Participants

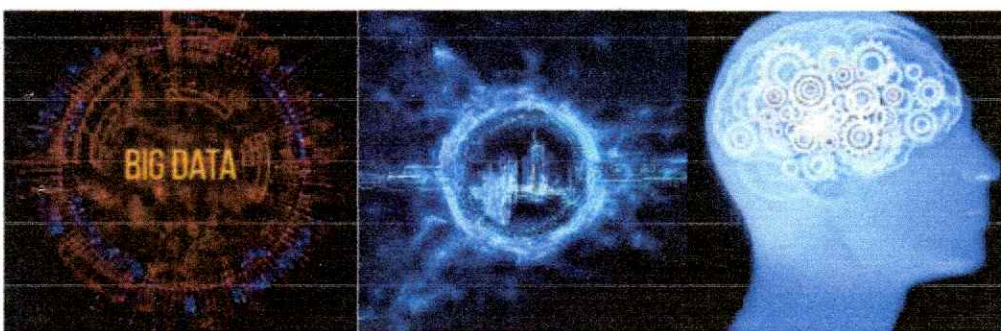
(Deadline: 15th Dec, 2022)

<https://forms.gle/vRWDqmUggsEFobXj8>

- UG/PG Scholar's – INR 500
- Research Scholar's – INR 1,000
- Industry /Academicians – INR 2,000

Benefits for Participants

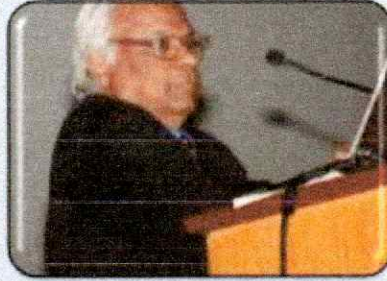
- Interaction with Visionary Speakers
- Technical Paper Presentation Sessions
- Poster Presentations
- Conference Kits



More Info Contact:
09449586008/icdal2022@aiet.org.in
Dr. Manjunath Kotari
Organizing Secretary
IC DAL'22



Dr.P.Nagabhushan, Hon'ble Vice
Chancellor, Vignan University, INDIA



Dr. L. M. Patnaik, Professor, Indian
Institute of Science(IISc), INDIA



Dr Raghav Rao, Professor
University of Texas at San
Antonio(UTSA),USA



Dr.D.S Guru
Professor CS, University of Mysore



Dr. Basavaraj Anami
IKLE University, Belagavi



Dr Pavan Chakraborty
IIIT-Allahabad



Dr.B.H Shekar
Professor CS, Managlore University



Dr.Murali S
Maharaju Education Trust, Mysore



Dr.H.S.Nagendraswamy
University of Mysore



Dr.Mohammed Javed
IIIT, Allahabad



Dr.Vinay Kumar N
NTT DATA, Bengaluru



Dr.Dinesh M S
Philips India, Bengaluru



Second International Conference on Data Analytics and Learning 2022

Organized by the Department of Computer Science & Engineering,

Alva's Institute of Engineering & Technology, Moodbidri

In association with Dept. of Studies in Computer Science, University of Mysore,

Manasagangotri, Mysuru, Karnataka, India



<https://aiet.org.in/icdal2022>

December 30th & 31st, 2022

DAL'22

Patrons

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Managing Trustee, Alva's Education Foundation, Moodbidri, INDIA

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Organizing Secretary
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Gudivada V N, USA
Hemantha Kumar G, India
Jose J, Scotland
Kanakahalli M, Singapore
Koen De Bosschere, Belgium
Leedham G, Australia
Mehi P, Tahiliani, India
Murthy M N, India
N.Ch.Sriman Narayana Iyengar, India
Rajendra Hegadi, India
Ran Murthy Garimella, India
Ramakrishnan A G, India
Vallet D, Spain
Vasudev T, India

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Senthil Kumar V, UAE
Sneha, USA
Suryakant V Gangashetty, India
Sharad Sinha, India
Shekar B H, India
Shrath Kumar Y H, India
Shiv Kam, Dubai, India
Shivakumara P, Malaysia
Singh K P, India
Satish Singh, India
Sukalpa Chanda, Norway
Ziyen Wu, USA

Call for Papers

The objective of the conference is to present state-of-the-art scientific results, encourage academic and industrial interaction and promote collaborative research activities, in the areas of data analytics and learning fields involving scientists, engineers, professionals, researchers and student from India and abroad. The original, unpublished contributory research papers are invited

The Topics of interest for submission of papers include but not limited to :

Data Analytics: Data Analytics Systems, Data Representation, Data Clustering, Symbolic Data Analysis, Fuzzy Data Analysis, Soft Computing

Machine Learning: Conceptual learning, Classification and Clustering Algorithms, Feature Learning, Support Vector Machines, Neural Networks and its applications, Deep Learning algorithms

Computer Vision: Image Rectification, Stereo Vision, Object Detection, Motion Estimation, Camera Calibration.

Publication

All Papers will be peer reviewed blindly by atleast 2 reviewers. Accepted papers will be published in the Springer. It is planned to publish the proceedings with **Springer in their Communications in Computer and Information Science series** (final approval pending)

Paper Submission

Paper needs to be submitted electronically, visit https://aiet.org.in/icdal2022/paper_submission.html further details.

Keynote Speakers

To be announced later

Organizing Committee

Staff & Students of CSE Department, AIET, Moodbidri

Conference Venue

MBA Seminar Hall, Alva's Institute Engineering & Technology, Moodbidri, Karnataka, India

Contact Details

Organizing Secretary, IC DAL'22
Alva's Institute of Engineering and Technology
Department of Computer Science and Engineering
Shobhavana Campus, Mijar, Moodbidri
Mangalore-574 225.
Ph. 09632454934/ 09449586008

Registration Fees

RESEARCH SCOLARS	₹ 6,000/-
INDUSTRY AND ACADEMICIANS	₹ 8,000/-
FOREIGN NATIONALS	\$ 100/-

Important Dates

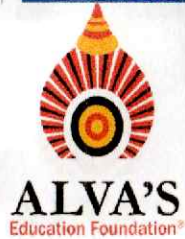
Late Date for Full Paper Submission	30 th August 2022
Acceptance Notification	25 th October 2022
Camera Ready Copy Submission & Registration	01 st November 2022
Conference Dates	30 th & 31 st December 2022

List of Selected Papers in ICDAL'22

Paper ID	Paper Title	Authors with Organization	Track Name
7	A Two Stage Word Spotting Scheme for Historical Handwritten Devanagari Documents	Sushma S N* , SHARADA B, University of Mysore	Computer Vision
9	Removal of Reflection and Darkness Caused by Sunglass Occlusion using aPCA	Divya A K *; Dr. Keshaveni N ,KVG College of Engineering, Sullia	Machine Learning
11	3D Object Detection in Point Cloud using Key Point Detection Network	Pankaj Kumar Saini *; Md Meraz, Dr. Mohammed Javed (Department of IT, IIIT Allahabad)	Computer Vision
12	Reconstruction and Recognition of Reflected Faces using PDE	Dr.Madhusudhan S (Alva's Institute of Engineering and Technology)*	Computer Vision
15	IRIS AND FACE BASED MULTIMODAL BIOMETRIC SYSTEM	Mrutyunjaya S Hiremath (eMath Technology)*	Computer Vision
16	A survey of detection of diseases in plants using Computer vision based model	Sowbhagya Takappa Pujeri (Bangalore University)*	Computer Vision
17	Machine learning based cancer type classification using high-throughput gene expression data	Danni Yang (University of California, Davis)*	Machine Learning
19	Optimization load balancing in fog computing State of Art	Mona Albalawi (University of Tabuk)*	Computer Vision
20	Batsmen Performance Prediction in ODI Matches Using Machine Learning	Gayatri M Bhatambarekar*; Swarnim Rai (International Institute Of Information Technology(IIIT), Pune)	Machine Learning
21	SECURE MESSAGE TRANSMISSION IN AD-HOC NETWORKS USING FRAGMENTATION AND CRYPTOGRAPHY	Jayantkumar A Rathod *; Dr.Manjunath Kotari (Alva's Institute of Engineering and Technology)	Computer Vision
22	SMS BLACKLISTING USING MACHINE LEARNING TECHNIQUES	Aditya Ram Varala *; Manvith Reddy Mullangi; Sreekar Yadav Golla ; Dr. Jagadish R M (Vardhaman College of Engineering, Hyderabad)	Machine Learning
25	Machine Learning Based Forest Fire Prediction	Bhavatarini N (REVA University); Balaji N (NMAM Institute of Technology)*	Machine Learning
26	INVESTIGATION OF CORROSION INTENSITY ON METAL STRUCTURES USING IMAGE PROCESSING ALGORITHM	Virupaxayya Viresh Hosallimath (Angadi Institute of Technology Belagavi)*; Anupama Awati (KLS Gogte Institute of technology Belgaum); Menakshi Patil (Jain AGM college of engineering, Jamkhandi)	Machine Learning
28	Phishing Websites Detection and Evaluation using Machine Learning	Balaji N (NMAM Institute of Technology)*; Bhavatarini N (REVA University)	Machine Learning
29	HWRCNet: Handwritten Word Recognition in JPEG Compressed Domain using CNN-BiLSTM Network	Bulla Rajesh*; Abhishek Kumar Gupta ; Ayush Raj ; Shiv Ram Dubey (Indian Institute of Information Technology, Allahabad)	Computer Vision
31	Aquaculture Monitoring System: A Prescriptive Model	Pushkar Bhat*; Vasanth Pai M D; Dr.MANOHARA PAI ; Shreesha S ; Radhika Pai (MIT, MAHE, Manipal)	Machine Learning
32	Machine Learning based Pattern Recognition Models for Classification	Madhuri G R (Kuvempu University)*	Machine Learning

34	An Enhanced Energy-Conscious Workflow Scheduling Algorithm in the Cloud Environment	Sripavithra C K (Christ (Deemd to be University))*; Kirubanand V B (Christ (Deemd to be University))	Data Analytics
35	Sign Language Recognition Using Non-Manual Markers Facial Expressions with Symbolic Representation	Syroos Zaboli (University of Mysore)*	Machine Learning
36	A Review paper on silkworm farming automation using Artificial Intelligence, Machine Learning and Cloud-Based solutions	Varun Canamedi (BMS College of Engineering)*	Data Analytics
37	Comparative Analysis of Generic Outlier Detection Techniques	Vasudev Kini T *; Radhika Pai ; MANOHARA PAI (MIT, MAHE,MANIPAL)	Machine Learning
38	Artificial Intelligence based Smart Door with Face Mask Detection	Renuka Tantry *; Anisha DSouza ; Ankitha R ; Anusha Shetty ; Ankitha Rai ,St Joseph Engineering College	Machine Learning
39	Script Identification Based on Pre-trained Clustering and Neural Network Models	Sufola Das Chagas Silva E Araujo (KLE Dr. M.S.S Sheshgiri College of Engg. & Tech)*	Computer Vision
40	Optimization of Convolution Neural Networks with different Regularization Techniques	VASUDEV S SHAHAPUR (Alvas Institute of Engineering and Technology MOODUBIDIRE)*	Machine Learning
41	Pulmonary Nodules Detection with Computed Tomography-Images using Convolution Neural Network	Ravikumar Gunupuru *; Daliya UmaKalyani ; Satish Muppidi ; Abdul Rahaman ; Amarasetti Venkata Narasimha ; Dumberi Dilipchand ; Gunapu Harika (GMRIT)	Machine Learning
43	Nitrogen Deficiency and Yield Estimation in Paddy Field	Mrutyunjaya S Hiremath (eMath Technology)*	Machine Learning
44	MEDICAL IMAGE COMPRESSION USING HUFFMAN CODING FOR TIFF IMAGES	Rekha Biradar (Karnataka State Akkamahadevi Women's University Vijaypur)*	Machine Learning
45	Efficient Wavelet based Denoising Technique Combined with features of Cyclespinning and BM3D for grayscale and color Images	Shilpa Kaman *; Aziz Makandar (Karnataka State Akkamahadevi Women's University Vijayapura)	Machine Learning
47	PBRAMEC:Prioritized Buffer based Resource Allocation for Mobile Edge Computing Devices	Shabrish Heggade ; Shravan M T ; Adwitiya Mukhopadhyay (Amrita School of Arts and Sciences, Mysuru Campus Amrita Vishwa Vidyapeetham, India)*	Data Analytics
49	Surface Water Quality Analysis Using IoT	Adwitiya Mukhopadhyay *; Nimishamba R ; Madhu R Seervi (Amrita School of Arts and Sciences, Mysuru Campus Amrita Vishwa Vidyapeetham, India)	Machine Learning
50	Children Facial Growth Pattern Analysis Using Deep Convolutional Neural Networks	SUMITHRA R (Dept. of Studies in Computer Science, manasagangotri, Mysore)*; Dr. D. S Guru (Mysore University)	Machine Learning
51	Classification of Forged Logo Images	Kruthika C G (Freelance Researcher); N Vinay Kumar (University of Mysore)*; Divyashree J (Dr. B R Ambedakar PG Centre); Dr. D. S. Guru ()	Machine Learning

SECOND INTERNATIONAL CONFERENCE ON DATA ANALYTICS & LEARNING 2022 (DAL'22)

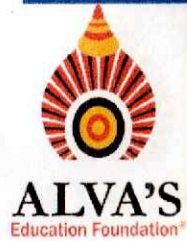


ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY,
MOODABIDRI
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Day-1: 30th Dec. 2022

C O N F E R E N C E		S C H E D U L E
09:00 am – 10:00 am	Registration	
10:00 am – 11:30 am	Inauguration of ICDAL'22	
11:30 am – 12:00 noon	Tea Break	
12:00 noon – 01:00 pm	Keynote Address	Phishing Email Detection Using Persuasion Cues Speaker: Dr. H. Raghav Rao, Professor, University of Texas, United States. Session Chair: Dr. Basavaraj Anami S. KLE University, Hubli
01:00 pm – 02:00 pm	Lunch Break	
02:00 pm – 03:30 pm	Paper Presentation – 1	Session Chairs: Dr. Mohammed Javed, Professor, IIIT, Allahabad Dr. Mohideen Badhusha S, Professor, AIET, Moodbidri
03:30 pm – 03:45 pm	Tea Break	
03:45 pm – 04:30 pm	Invited Lecture-1	Signals to Wisdom: Visualization of Data Speaker: Dr. Pavan Chakraborty, Professor & Head, Department of IT, IIIT, Allahabad Session Chair: Dr. Nagesh H R, Professor & Dean, SCEM, Mangalore
04:30 pm – 06:00 pm	Paper Presentation – 2	Session Chairs: Dr. G Thippeswamy, Professor B M S Institute of Technology, Bangalore. Dr. Arun Anoop M, Professor, AIET, Moodbidri
06:00 pm – 06:45 pm	Networking Break	
06:45 pm – 07:30 pm	Cultural Evening	
07:30 pm onwards	Dinner	



ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY,
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Day-2: 31st Dec. 2022

C O N F E R E N C E S C H E D U L E		
09:30am – 11:00 am	Paper Presentation –3	Session Chairs: Dr. M Sharmila Kumari, Professor, P A College of Engineering, Mangalore. Dr. Madhusudhan S, Professor, AIET, Moodbidri
11:00am – 11:45 am	Invited Lecture-2	Digital concepts and tools for Healthcare Data Analytics Speaker: Dr. Dinesh M.S, Principal Scientist-B, Philips India Pvt. Ltd., Bangalore Session Chair: Prof. Karunakar Kotegar, Director – International Affairs, MIT, Manipal
11:45am – 12:00 pm	Tea Break	
12:00 pm – 01:30 pm	Panel Discussion	Theme: “Future of Data Analytics And Learning Panelists: Prof. Annappa, NITK, Surathkal Prof. Murali S, MIT Mysore Prof. Radhika M Pai, MIT, Manipal Prof. B H Shekar, Mangalore University, Prof. H L Shashirekha, Mangalore University Moderator: Prof. D S Guru, University of Mysore
01:30pm – 02:15pm	Lunch Break	
02:15pm – 03:00 pm	Invited Lecture-3	Data analytics and Edge Intelligence: A Deployment Perspective Speaker: Dr. Manohar M Pai , Professor, Manipal University Session Chair: Dr. Murali S, Professor, Maharaja Institute of Technology, Mysore.
03:00pm – 04:00pm	Paper Presentation –4	Session Chairs: Dr. Prasanna Kumar H R, Professor, PESITM, Shivamogga. Dr. Manjunath H R, Professor, AIET, Moodbidri
04:00pm – 04:15pm	High Tea	
04:15 pm – 05:00 pm	Valedictory	



SECOND INTERNATIONAL CONFERENCE ON DATA ANALYTICS & LEARNING 2022 (DAL'22)

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODABIDRI
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Paper Presentation Session-I

Date: 30-12-2022

Time: 2pm-3:30 pm

Venue: MBA Seminar Hall

Paper ID.	Paper Title	Authors with Affiliation
16	A survey of detection of diseases in plants using Computer vision based model	Sowbhagya Takappa Pujeri (Bangalore University) Dr. M T Somashekara (Bangalore University)
25	An Approach to Conserve Wildlife habitat by Predicting Forest Fire using Machine Learning Techniques	Bhavatarini N (REVA University, Bengaluru) Balaji N (Nitte University, Nitte)
31	Aquaculture Monitoring System: A Prescriptive Model	Pushkar Bhat , Vasanth Pai M D, Dr. Manohara Pai M.M., Shreesha S, Dr. Radhika Pai (Department of ICT, Manipal Institute of Technology, Manipal)
35	Sign Language Recognition Using Non-Manual Markers Facial Expressions with Symbolic Representation	*Syroos Zaboli (University of Mysore) Dr. H.S. Nagendraswamy (University of Mysore)
47	PBRAMEC: Prioritized Buffer based Resource Allocation for Mobile Edge Computing Devices	*Shabareesh Hegde , Shravan M T, Adwitiya Mukhopadhyay (Amrita Vishwa Vidyapeetham, Mysuru)
7	A Two Stage Word Spotting Scheme for Historical Handwritten Devanagari Documents	*Sushma S N , SHARADA B (University of Mysore)



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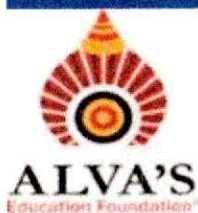
Paper Presentation Session-II

Date: 30-12-2022

Time: 4:30 pm-6 pm

Venue: MBA Seminar Hall

Paper ID.	Paper Title	Authors with Affiliation
32	Machine Learning based Pattern Recognition Models for Classification	Dr.Madhuri G R, Basavaraj Jagadale, Salma N ,Akshata G M, Ajaykumar Gupta, Chandrakantha T.S(Kuvempu University)
44	MEDICAL IMAGE COMPRESSION USING HUFFMAN CODING FOR TIFF IMAGES	*Rekha Biradar, Dr.Aziz Makandar, (Karnataka State Akkamahadevi Women's University Vijaypur)
36	A Review paper on silkworm farming automation using Artificial Intelligence, Machine Learning and Cloud-Based solutions	*Varun Canamedi, BMS College of Engineering, Bengaluru
49	Surface Water Quality Analysis Using IoT	Adwitiya Mukhopadhyay , *Nimishamba R , Madhu R Seervi (Amrita Vishwa Vidyapeetham, Mysuru,India)
51	Classification of Forged Logo Images	*Kruthika C G , Dr. Vinay Kumar N. , Divyashree J Dr. D. S. Guru (University of Mysore)
43	Nitrogen Deficiency and Yield Estimation in Paddy Field	*Sharanamma M Hugar, Sharnbasva University,Kalaburgi, Dr.Mohammed Abdul Waheed, VTU, Kalaburgi



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&
UNIVERSITY OF MYSORE, MYSURU



Paper Presentation Session-III

Date: 31-12-2022

Time: 9:30 am-11:00 am

Venue: MBA Seminar Hall

Paper ID.	Paper Title	Authors with Affiliation
15	IRIS AND FACE BASED MULTIMODAL BIOMETRIC SYSTEM	*Vaishnavi V. Kulkarni (BEC, Bagalkot) Mrutyunjaya S Hiremath (eMath Technology) Sanjeevakumar M. Hatture(BEC, Bagalkot) Rashmi P. Karchi(<i>University of Horticulture Science, Bagalkot</i>) Rashmi Saini(<i>G. B. Pant Institute of Engineering and Technology (Autonomous), Pauri Garhwal</i>) Shantala S. Hiremath(<i>Sony India Software Centre, Pvt Ltd. Bangalore</i>)
37	Comparative Analysis of Generic Outlier Detection Techniques	*Vasudev Kini T ; Dr. Radhika Pai , Dr. MANOHARA PAI M.M. (Department of ICT, Manipal Institute of Technology, Manipal)
29	HWRCNet: Handwritten Word Recognition in JPEG Compressed Domain using CNN-BiLSTM Network	Bulla Rajesh, *Abhishek Kumar Gupta , Ayush Raj, Dr. Mohammed Javed (Indian Institute of Information Technology, Allahabad)
38	Artificial Intelligence based Smart Door with Face Mask Detection	*Renuka Tantry , Anisha DSouza , Ankitha R , Anusha Shetty , Ankitha Rai (St Joseph Engineering College, Mangaluru)
39	Script Identification Based on Pre-trained Clustering and Neural Network Models	*Dr. Sufola Das Chagas Silva E Araujo (Goa University, PCCE, India) Dr. V. S. Malemath, VTU, KLE, India
50	Children Facial Growth Pattern Analysis Using Deep Convolutional Neural Networks	*SUMITHRA R , Dr. D. S Guru (University of Mysore)



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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODABIDRI
&
UNIVERSITY OF MYSORE, MYSURU



Paper Presentation Session-IV

Date: 31-12-2022

Time: 3 pm-4 pm

Venue: MBA Seminar Hall

Paper ID,	Paper Title	Authors with Affiliation
45	Efficient Wavelet based Denoising Technique Combined with features of Cyclespinning and BM3D for grayscale and color Images	* Shilpa Kaman , Dr. Aziz Makandar (Karnataka State Akkamahadevi Women's University Vijayapura)
11	3D Object Detection in Point Cloud using Key Point Detection Network	* Pankaj Kumar Saini , Md Meraz , Dr. Mohammed Javed , Indian Institute of Information Technology (IIIT), Allahabad
28	A method to detect phishing websites using distinctive URL characteristics by employing Machine learning.	Balaji N (Nitte University, Nitte; Bhavatarini N (REVA University) * Deepa Kumari (Nitte University)
52	Detection, Classification, and Counting of Moving Vehicles from Videos	* Alfina Sunny , Manohar N , Dr. Chandrajith M (Amrita Vishwa Vidyapeetham Mysuru)
53	FACE RECOGNITION USING SKETCH IMAGES	* Darshana T ,Manohar N; (Amrita Vishwa Vidyapeetham Mysuru, Dr. Chandrajith M (MIT Mysore)

Note:- * Indicates Paper Presenter

Alva's Institute of Engineering & Technology,
Moodbidri



&
University of Mysore, Mysuru



YOU ARE CORDIALLY INVITED FOR

INAUGURAL CEREMONY

OF

2nd International Conference on Data Analytics & Learning
(ICDAL'22)

Chief Guest : Dr.H.Raghav Rao,

University of Texas, USA

Guest of Honor : Dr.L.M.Patnaik

Indian Institute of Science,
Bengaluru

Inaugurator : Dr.P.Nagabhushan,

Vignan University, A.P

President : Mr. Vivek Alva

Alva's Education Foundation, Moodbidri

Organizing Chair : Dr.Peter Fernandes

PRINCIPAL, AIET, Moodbidri

General Chair : Dr.D.S Guru

University of Mysore, Mysuru

Program Chairs : Dr.Mohammed Javed

IIIT, Allahabad

: Dr.Vinay Kumar N

NTT DATA, Bengaluru

Organizing Secretary : Dr.Manjunath Kotari

HoD CSE,AIET, Moodbidri

DATE: 30 DEC,2022@10:00 AM



Venue: MBA Seminar Hall

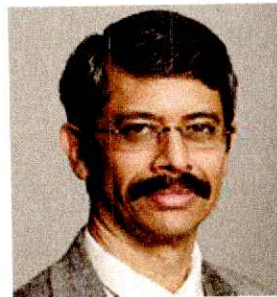
ORGANIZING COMMITTEE
ICDAL'22

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H. Raghav Rao, Ph.D

AT&T Distinguished Chair in Infrastructure Assurance and Security



 NPB 3.126A

 hr.rao@utsa.edu

[\(mailto:hr.rao@utsa.edu\)](mailto:hr.rao@utsa.edu)

Degrees

- Ph.D. Purdue University
- MBA Delhi University
- B Tech Indian Institute of Technology

About

Co-editor in chief, Information Systems Frontiers
(<https://link.springer.com/journal/10796>)

☎ 210.458.6340
(tel:210.458.6340)

Dr. H.R. Rao was named the AT&T Distinguished Chair in Infrastructure Assurance and Security at The University of Texas at San Antonio Carlos Alvarez College of Business in January 2016. He also holds a courtesy appointment as full professor in the UTSA Department of Computer Science. Prior to working at UTSA, Professor Rao was the SUNY Distinguished Service Professor at the University at Buffalo. He graduated from Krannert Graduate School of Management at Purdue University.

Professor Rao was inducted into the UTSA Academy of Distinguished Researchers in 2019. His interests are in the areas of management information systems, decision support systems, e-business, emergency response management systems and information assurance and artificial intelligence. He has chaired sessions at international conferences and presented numerous papers. He also has co-edited four books, including *Information Assurance Security and Privacy Services* and *Information Assurance in Financial Services*. He has authored or co-authored more than 200 technical papers, of which more than 125 are published in archival journals.

Dr. Rao was the recipient of the AIS fellow award for 2021. Professor Rao was the inaugural recipient of The Bright Internet Award for his contributions to the information systems discipline by KMIS (http://www.kmis.or.kr/kmis/eng/e_sub0101.asp), the Korea Society of Management Information Systems. In 2018

Professor Rao was awarded the International Federation for Information Processing (IFIP) Outstanding Service Award for significant service contributions to the field of information systems and information systems security. In November 2016, Professor Rao received the prestigious Information Systems Society Distinguished Fellow Award (Class of 2016) for outstanding intellectual contributions to the information systems discipline.

Rao's work has received best paper and best paper runner up awards at ISR, AMCIS and ICIS. He has received funding for his research from the National Science Foundation, the Department of Defense and the Canadian Embassy. He also received the Fulbright fellowship in 2004.

Rao is a past chair of IFIP WG 8.11/11.13, the working group for Information Systems Security Research. He is co-editor in chief of *Information Systems Frontiers*, advisory editor of *Decision Support Systems*, associate editor of *ACM TMIS* and senior editor at *MIS Quarterly*.

He has placed Ph.D. students at Sogang U, UNCG, ASU, USF, FAU, MSU, OK State, FSU, Penn State, University of Warwick and others.

Rao was ranked No. 3 in publication productivity internationally in a 2011 *Communications of the Association for Information Systems* study. In August 2020, Rao's h-index was 64 and his i-10 index was 178. He is a graduate of the FBI Citizens Academy.

Research Interests

- Management information systems
- Decision support systems
- E-business
- Emergency response management systems
- Information assurance

Grants

- 2016–19: NSF grant #IIS1651475, \$199,999, "EAGER: An Investigation of the Propagation of Error-Resistant and Error-prone Messages over Large-Scale Information Networks," by H.R. Rao (PI), Manish Agrawal (Co-PI), Varun Chandola (Co-PI) and Rohit Valecha (Co-PI). See Project Details (<https://ambiguityismlab.github.io/>).

Selected Publications

- Moore, J. C., H. Raghav Rao and A. B. Whinston, "Information Processing for a Finite Resource Allocation Mechanism." *Economic Theory*, 1996.
- Rao, H. Raghav, A. Chaudhury and M. Chakha, "Modeling Team Processes: Issues and a Specific Example." *Information Systems Research*, 1996.
- Nam, K., A. Chaudhury and H. Raghav Rao, "A Mixed Integer Model of Bidding Strategies for Outsourcing." *European Journal of Operational Research*, 1995.



Adjunct Professor and NASI Senior Scientist, Consciousness Studies Program,
National Institute of Advanced Studies, IISc Campus.

Former Professor, Indian Institute of Science, Bangalore

Former Vice Chancellor, Defence Institute Advanced Technology (Govt of India, Min of
Def, DRDO) Deemed University, Pune

lalitblr@gmail.com , patnaiklm@yahoo.com

[Brief Bio-data, to download](#)

Academic Qualifications (First Degree Onwards):

D.Sc. in Engineering Faculty, Indian Institute of Science, Bangalore[1989]

Thesis : Investigations on Computer Systems and Architectures

Ph.D in Engineering Faculty, Indian Institute of Science Bangalore [1978]

Thesis : Optimization and Multivariable Computer Control of an Ammonia Reactor

Principal Supervisor : Late Prof. I G Sarma

M.E. in Electrical Engineering, Indian Institute of Science, Bangalore, Distinction [1971]

B.Sc. (Engg.) in Electrical Engineering, Sambalpur University Sambalpur, Orissa, First
Class Honours, First Rank in the University [1969]

“2nd International Conference on Data Analytics & Learning”

INAUGURATION (10 AM-11:30 AM)

Department of Computer Science & Engineering, Alva's Institute of Engineering & Technology, Moodbidri in association with Department of Studies in Computer Science organized a 2nd International Conference on “Data Analytics & Learning” on 30th & 31st, Dec, 2022.

The Inauguration of the conference was held on 30th Dec, 2022 @ 10 AM in AIET, Mijar. Campus. Dr. H.Raghav Rao, Professor, University of Texas, United States was the Chief Guest of the program. Dr.L.M.Patniak, Professor, Indian Institute of Science, Bengaluru was the Guest-of-Honor of the Inaugural program. Dr.P.Nagabhushan, Hon'ble Vice Chancellor, Vignan University, A.P was the Inaugurator the conference.



After the Inauguration, Prof. P.Nagabhushan said that “Wisdom is adaptation and adoption, people need to assimilate the same. Also he added that, machine learning & data analytics creates a huge opportunities & challenges for the youth to learn many more things nowadays. Students and researchers need to utilize the same”. Prof.L.M.Patnaik in his guest of honors speech told that “At present, everything is depending on automation due to machine learning, but this is not good sign for development. In India we have huge data set related to healthcare industry for research, hence researchers can make use of the same for the research”.

Prof.H Raghav Rao, chief guest of the program initially shared his professional and research experience of his USA institutions. Prof.D.S Guru from University of Mysore

said that "There are 23 technical research papers will be presented in the International Conference along with various Invited Lectures, hence students and researchers need to make use of this facility during the conference.



Mr.Vivek Alva, Managing Trustee, presided over the program Dr.Peter Fernandes, Principal, AIET and all the HoDs/Deans/Faculty/Students were present during the program. Dr.Manjunath Kotari, Organizing Secretary initially welcome the gathering, Mr.Rizawan N Shaikh proposed the Vote of thanks. Mrs. Deeksha M Mistress of Ceremony. About 40 authors from various engineering colleges of India were attended the inguinal program.



About 25 researchers namely **Dr.D.S Guru**, Professor, University Mysore, **Dr. Basavaraj Anami S.**, Registrar, KLE University, Hubli **Dr.Pvan Chakraborty**, Professor IIIT Allahabad, **Dr.Dr.Mohammed Javed**, Professor IIIT Allahabad, **Dr.Vinay Kumar N**, Senior Data Scientist, NTT Data Services, Bengaluru, **Dr.Nagesh H R**, Professor & Dean, SCEM, Mangalore, **Dr. G Thippeswamy**, Professor B M S

Institute of Technology, Bangalore, **Dr. M Sharmila Kumari**, Professor, P A College of Engineering, Mangalore, **Dr. Dinesh M.S**, Principal Scientist-B, Philips India Pvt. Ltd., Bangalore, **Prof. Karunakar Kotegar**, Director – International Affairs, MIT, Manipal, **Prof. Annappa**, NITK, Surathkal **Prof. Murali S**, MIT Mysore **Prof. Radhika M Pai**, MIT, Manipal **Prof. B H Shekar**, Mangalore University, **Prof. H L Shashirekha**, Mangalore University, **Dr. Manohar M Pai**, Professor, Manipal University, **Dr. Murali S**, Professor, Maharaja Institute of Technology, Mysore. **Dr. Prasanna Kumar H R**, Professor, PESITM, Shivamogga were delivered invited lectures and interacted with conference authors/participants.

KEYNOTE ADDRESS on “Phishing Email Detection Using Persuasion Cues”

Speaker: Dr. H. Raghav Rao, Professor, *University of Texas, United States.*

Session Chair: Dr. Basavaraj Anami S. *KLE University, Hubli*

Dr. H.R. Rao was named the AT&T Distinguished Chair in Infrastructure Assurance and Security at The University of Texas at San Antonio Carlos Alvarez College of Business in January 2016. He also holds a courtesy appointment as full professor in the UTSA Department of Computer Science. Prior to working at UTSA, Professor Rao was the SUNY Distinguished Service Professor at the University at Buffalo. He graduated from Krannert Graduate School of Management at Purdue University. Professor Rao was inducted into the UTSA Academy of Distinguished Researchers in 2019. His interests are in the areas of management information systems, decision support systems, e-business, emergency response management systems and information assurance and artificial intelligence. He has chaired sessions at international conferences and presented numerous papers. He also has co-edited four books, including Information Assurance Security and Privacy Services and Information Assurance in Financial Services. He has authored or co-authored more than 200 technical papers, of which more than 125 are published in archival journals.





Prof. H. Raghav Rao has started his keynote on “Phishing Email Detection Using Persuasion Cues”

Phishing is an attempt to acquire sensitive information from an unsuspecting victim by malicious means. Recent studies have shown that phishers often use persuasion techniques to get positive responses from the recipients. Still missing from this literature are studies assessing effectiveness of persuasion cues in phishing email detection. Specifically focusing on gain and loss persuasion cues, we address the following research questions: In detecting phishing emails, (1) how effective are the gain persuasion cues, (2) how effective are the loss persuasion cues, and (3) how effective is an integrated model of gain and loss persuasion? In order to address the research questions, we create three machine learning models, with relevant gain persuasion cues, loss persuasion cues, and combined gain and loss persuasion cues respectively, and compare the estimates with a baseline model that does not account for the persuasion cues. The results show that the three phishing detection models with relevant persuasion cues significantly outperform the baseline model by approximately 5% to 20% percent in terms of F-score, thus representing reliable methods for phishing email detection. The objective of this study is to develop anti-phishing methods that utilize persuasion cues for detecting phishing emails. Such research is useful because a deeper understanding of persuasion cues can inform the design of effective countermeasures for detecting and blocking phishing emails.

Paper Presentation –Session 1

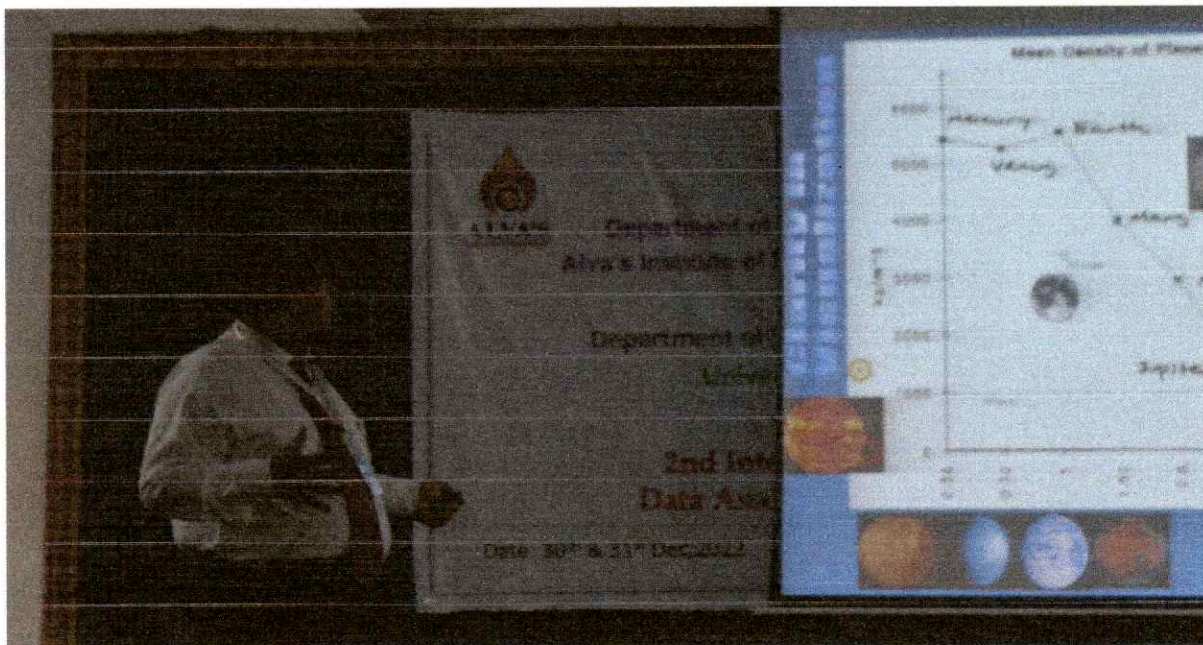
Session Chairs: Dr.Mohammed Javed, *Professor, IIIT, Allahabad*

Dr.Mohideen Badhusha S , *Professor, AIET, Moodbidri*

About 6 papers are scheduled during the Paper Presentation Session 1 and Dr.Mohammed Javed IIIT Allahabad and Dr.Mohideen Badhusha S from AIET were the session chairs. All the 6 papers primary authors were presented their papers and clarified the doubts.



Invited Lecture-1 on Signals to Wisdom: Visualization of Data



Speaker: Dr. Pavan Chakraborty, *Professor & Head, Department of IT, IIIT, Allahabad*

Session Chair: Dr.Nagesh H R, *Professor & Dean, SCEM, Mangalore*

Visualization of data is the process of representing information and data using visual elements such as charts, graphs, maps, and diagrams. This technique is essential in data analysis and communication as it allows for the quick and easy interpretation of complex data sets. Here are some signals to wisdom regarding the visualization of data:

- Choose the right visualization technique: The type of visualization you choose should depend on the type of data you have and the message you want to convey. For example, a scatter plot may be useful for showing the relationship between two continuous variables, while a bar chart may be better for comparing discrete categories.
- Keep it simple: A good visualization should be easy to understand at a glance. Avoid cluttering the visual with unnecessary information, and focus on highlighting the essential data points.
- Use appropriate colors: Colors can add depth and meaning to your visualization, but they can also distract and confuse if not used correctly. Choose colors that complement each other and avoid using too many colors.
- Label your axes and provide a legend: Proper labeling of your axes and providing a legend is critical in making your visualization easy to understand. Ensure that the labels are concise and accurately reflect the data they represent.
- Include context: Providing context is essential in helping your audience understand the significance of the data being presented. Including labels, annotations, and reference lines can provide the necessary context for your visualization.
- Test your visualization: Before presenting your visualization, it's important to test it thoroughly to ensure it is accurate and effective in conveying the intended message.

Paper Presentation –Session 2

Session Chairs: Dr. G Thippeswamy, Professor *B M S Institute of Technology, Bangalore.*

Dr. Arun Anoop M, Professor, *AIET, Moodbidri*

About 8 papers are scheduled during the Paper Presentation Session 2 and Dr.G.Theppyswamy ,Professor , BMSIT, Bengaluru and Dr. Arun Anoop M chaired the session chairs. All the 6 papers primary authors were presented their papers and clarified the doubts.



Paper Presentation –Session 3

Session Chairs: **Dr. M Sharmila Kumari**, *Professor, P A College of Engineering, Mangalore.*
Dr.Manjunath H R, *Professor, AIET, Moodbidri*



Invited Lecture-2 on “Federated Learning in healthcare”

Speaker: **Dr. Dinesh M.S**, *Principal Scientist-B, Philips India Pvt. Ltd., Bangalore*
Session Chair: **Prof. Karunakar Kotegar**, *Director – International Affairs, MIT, Manipal*

In the last few years, we have all come to acquaint the meaning and impact of emerging technologies on various aspects of our lives. Whether its applications on our mobile phones learning our preferences or using Artificial Intelligence to assist doctors in diagnosis, the significance of technology in our lives is high.



In healthcare, we have leapfrogged innovation in artificial intelligence, particularly in Machine Learning (ML) and Deep Learning (DL) leading to disruptive innovation to gain insights from medical data derived from radiology, pathology, genomics, oncology, etc.

However, in healthcare, data is not just highly sensitive but also not well organised. Furthermore, data privacy, data security, data access rights need to be followed with strict adherence to country specific

regulatory aspects like GDPR (Europe), FDA(USA) and CDSCO(India), NMPA (China) etc. Apart from the massive volume, data also has a large proportion of unstructured content, patient privacy sensitivity, wide geographical distribution, and lack of interoperability between different devices and vendors.

For instance, AI has demonstrated the potential to assist radiologists in performing computer-aided analysis and diagnosis. However, it remains challenging to build good models without bias from small datasets and given the challenges in collecting, curating, and maintaining a high-quality data with diverse group takes considerable time, effort, and expense. To overcome this unique problem, experts in healthcare and life sciences can leverage the benefits of Federated Learning (FL) to address the problem of data governance and privacy by training algorithms collaboratively where data stays within the firewalls of the hospital and only models are shared.

Federated learning captures larger data variability and analyses patients across different demographics. For example, with the access to electronic health records, FL can help to find clinically similar patients and predict hospitalizations due to cardiac events, mortality and ICU stay time. Originally FL was developed for different domains such as mobile and edge device use cases, it recently gained traction for healthcare applications. Recent research has shown that models trained by FL can achieve performance levels comparable to ones trained on centrally hosted data sets and superior to models that only see isolated single-institutional data.



In the field of medical imaging, FL can help to develop models for organ segmentation in X-ray, Ultrasound, Computed Tomography, Magnetic Resonance Images and Positron Emission Tomography as well as disease-specific tumor characterization. By providing an opportunity to capture larger data variability and to analyze patients across different demographics, FL can enable disruptive innovations for the future.

FL can also be used to advance academic research. For instance, in 2020, the American College of Radiology, Diagnosticos da America, Partners HealthCare, Ohio State University and Stanford Medicine used Federated Learning to develop better predictive models to assess breast tissue density for mammograms (4). The study showed that the FL-generated models outperformed those trained on a single institute's data and were more generalizable. Similarly, the HealthChain project aims to develop and deploy a FL framework across four hospitals in France. This solution generates common models that can predict treatment response for breast cancer and melanoma patients. This can further help oncologists to ascertain the most effective way to treat each patient based on their microscopic anatomy or dermoscopy images.

Further, collating data using 'FAIR' principles (Findable Accessible Interoperable Reusable) make the data readable and understandable to a great extent from autonomous algorithms that can be complex [2]. For instance, representing data in the form of universally standardized vocabularies such as Uniform Resource Identifier (URI) and publicly searchable ontologies, can help many in this field of research, overcome language barriers in clinical data accessed from global clinical sites. Strengthening FL by combining with FAIR principles can lead to meaningful clinical insights from big data on a global scale.

Federated Learning can create a huge impact on various stakeholders such as clinicians, patients, hospitals, AI researchers and healthcare providers. Despite the advantages of FL, researchers and AI developers must pay careful attention to the study design, selection of clinical protocols, data heterogeneity and data quality to alleviate model bias. Federated Learning is a promising concept to secure accurate, safe and unbiased data models. By enabling multiple parties to train collaboratively without the need to exchange or centralize data sets, FL addresses issues related to sensitive medical data. Federated Learning will have a great impact on precision medicine and holds the potential to improve patient care globally.

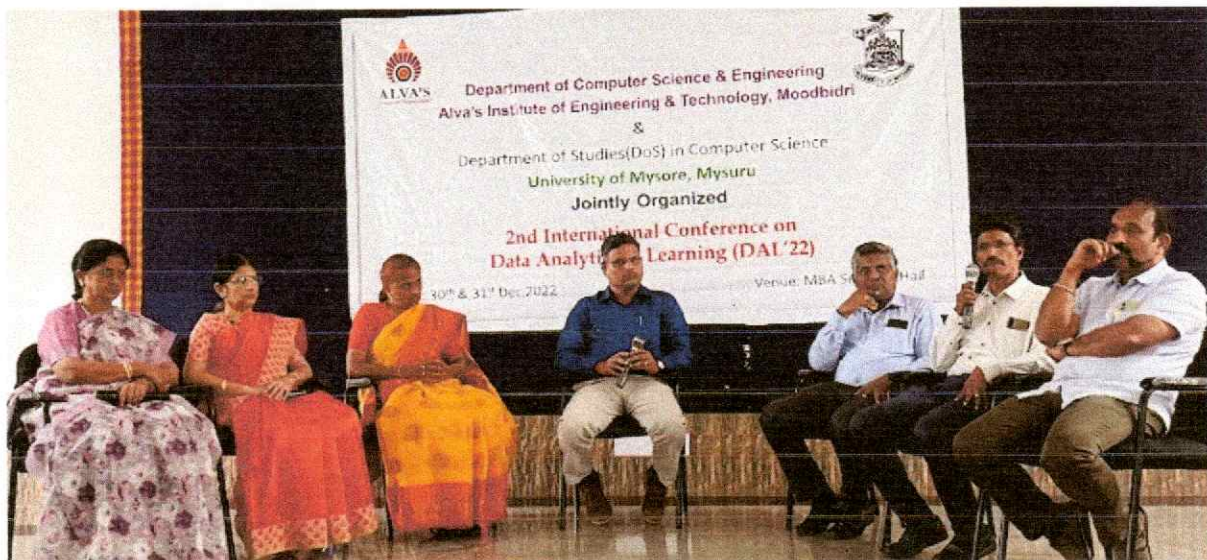
Panel Discussion

Theme: "Future of Data Analytics and Learning"

Panelists: Prof. Annappa, NITK, Surathkal Prof. Murali S, MIT Mysore Prof. Radhika M Pai, MIT, Manipal Prof. B H Shekar, Mangalore University, Prof. H L Shashirekha, Mangalore University Prof. Bharathi S.K, SJCE, Mysore

Moderator: Prof. D S Guru, University of Mysore

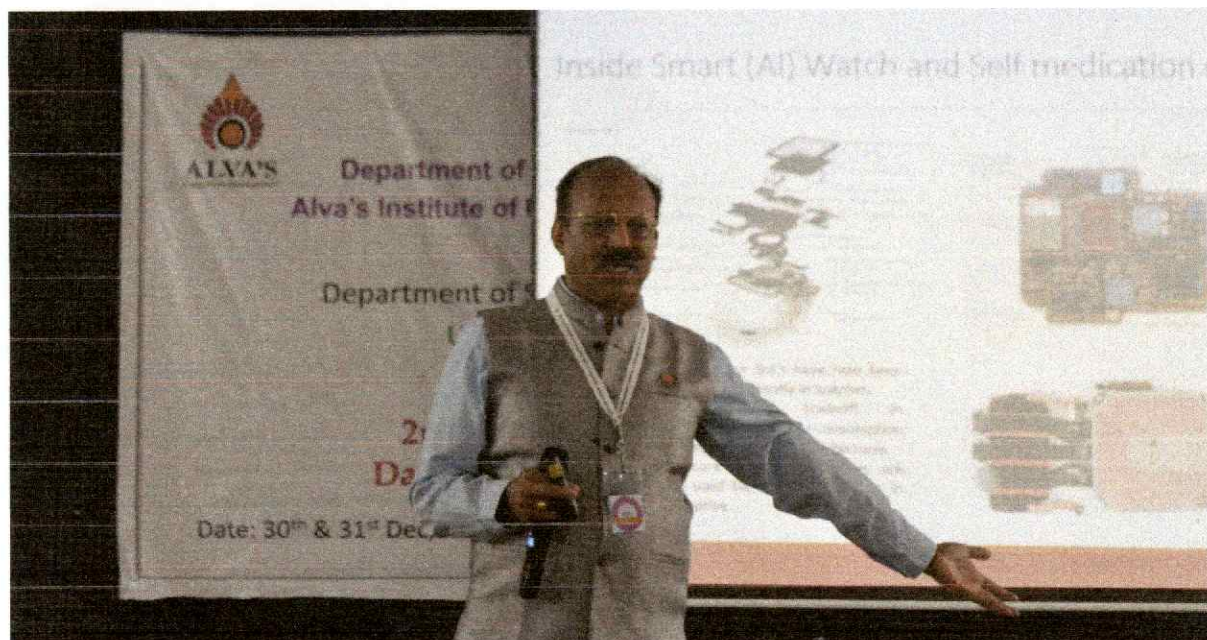
The Panel discussion on "Future of Data Analytics and Learning" was conducted during the conference and various researchers were involved in the discussion. In the future, **big data analytics will increasingly focus on data freshness with the ultimate goal of real-time analysis, enabling better-informed decisions and increased competitiveness.** What is the future role of data analyst? Data Analysts can also advance up the ranks to become **Data Scientists or high-level data analytics positions with additional training**



Invited Lecture-3 on “Data analytics and Edge Intelligence: A Deployment Perspective”

Speaker: Dr. Manohar M Pai, Professor, Manipal University

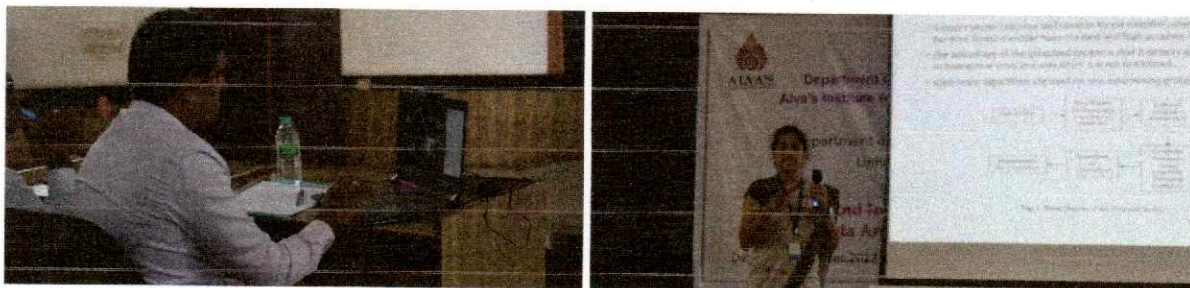
Session Chair: Dr. Murali S, Professor, Maharaja Institute of Technology, Mysore.



The AI/ML has been in the focus due to its adoption in most of the industries especially in Audio, Video, Automotive and Fintech products and applications. The technology advancement in storage, processing and communication fuelled the development and deployment of edge computing, leading to real time IOT, a virtual migration from cloud computing. The edge intelligence is new thinking, where edge computing nodes embed the AI/ML models with very low latency resulting in near real time actions. This along with smart connected devices, huge data generation and analytics has influenced the life style of individuals. The data analytics, feature engineering and matured AI/ML models are triggering new killer applications and innovations

Paper Presentation –Session 4

Session Chairs: **Dr. Prasanna Kumar H R**, *Professor, PESITM, Shivamogga.*
Dr. Madhusudhan S, *Professor, AIET, Moodbidri*



Valedictory Program

The Valedictory of the conference was held on 31st Dec, 2022 @ 5 PM in AIET, Mijar. Campus. Dr. Basavaraj Anami S. Registrar, KLE University, Hubli was the chief guest of the program and delivered the valedictory address. Dr. Pavan Chakraborty Professor, Indian Institute of Information Technology, Allahabad was the guest of honor and distributed the Certificate of presentation to the authors. Dr. D.S. Guru General Chair, ICDAL'22, Professor, University of Mysore was also present during the valedictory program and distributed the certificates to the participants. Dr. Manjunath Kotari, Professor & Head-CSE was the presided over the program.





About 24 papers were presented during the conference. All the presented papers were published in **Springer Lecture Notes in Networks and Systems (LNNS)** series.

CERTIFICATE OF PRESENTATION



This Certificate is Presented To :



of

Successfully presented the paper entitled

in the **2nd International Conference on Data Analytics & Learning (ICDAL'22)** held at **Alva's institute of Engineering & Technology, Moodbidri, Mangaluru, Karnataka** in association with the **University of Mysore, Mysuru, Karnataka** on 30th & 31st December, 2022.

DR.MANJUNATH KOTARI
ORGANIZING SECRETARY

DR.D.S.GURU
GENERAL CHAIR

DR.PETER FERNANDES
ORGANIZING CHAIR

Feedback on 2nd International Conference on Data Analytics & Learning(DAL'22)

15 responses

Publish analytics

Name(Optional)

11 responses

Sowbhagya Takappa Pujeri

Renuka Tantry

Pushkar Bhat

Harshith DM

Vinay P Hundekar

Abhay

Chinmaya D Kamath

Dr. Madhuri G R

Sufola fas chagas silva

Santhriпти C S

Shilpa Kaman

Affiliation(Optional)

5 responses

Bangalore University

MIT Manipal

Kuvempu University

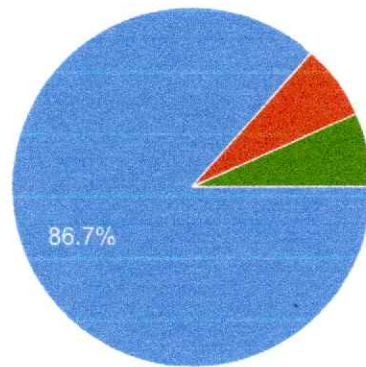
Goa University

Karnataka State Akkamahadevi Women's University Vijayapura

What was your primary goal in attending this conference?

 Copy

15 responses

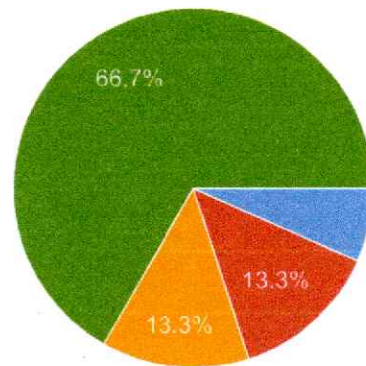


- Gaining more knowledge on the subject matter
- Networking
- New product/service discovery
- Gaining Experience

How did you hear about this conference?

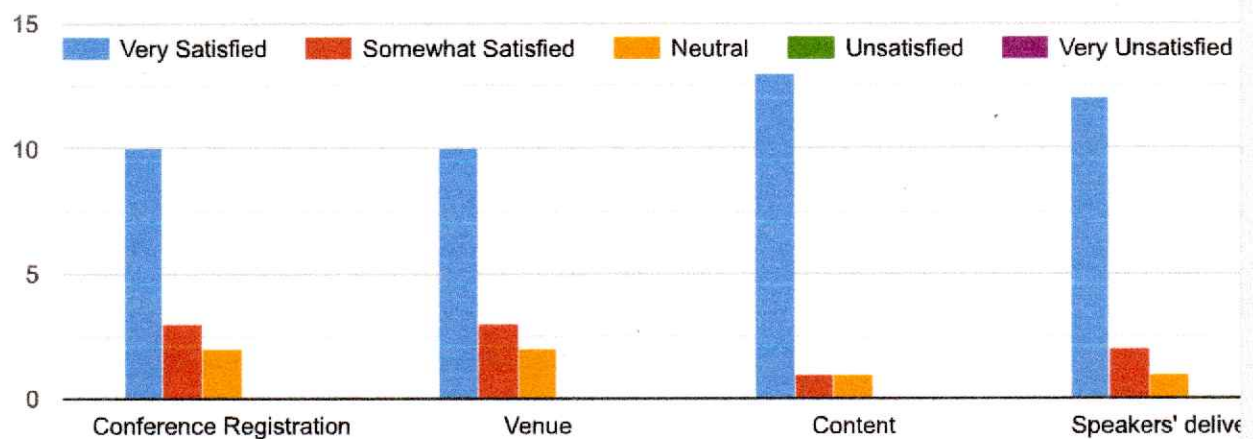
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15 responses



- Email/Newsletter
- Social media Ads
- Event Website
- Referral

Share your feedback with us

 Copy

What aspects of the conference did you like the most?

15 responses

Arrangements

-

The contents of key note speaker, guest lectures,the panel meeting

Interactive

Presentation

Topics that have been covered

Panel Discussion

...

Project presentations

Panel discussion

Learn new things

Well Organised and very polite response for every query

Presentations

Coordination of the staffs and students in organizing event was really good. Students involvement their enthusiasm was appreciable.

What topics would you like the conference to cover in the future?

12 responses

Parallel Computing

Communication with the most experience speakers

Detailed information of library used in Machine learning and deep learning

Trendy

...

Cloud computing

AIml and deep learning overall impact on society

Artificial intelligence

Deep learning and Data science

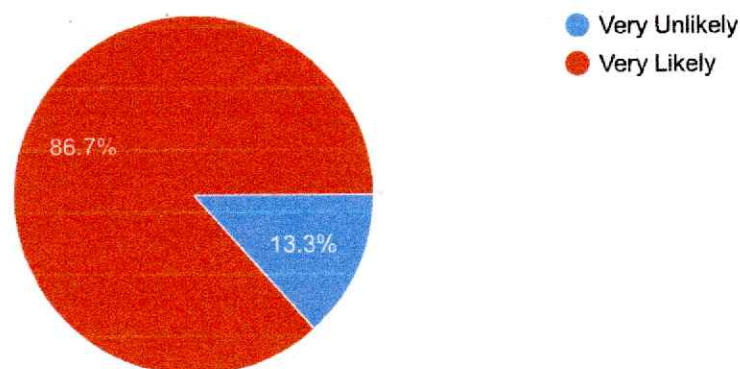
Artificial intelligence and Machine learning whixh was covered

More indepth research oriented concepts

How likely are you to recommend this conference to a friend or colleague?

 Copy





15 responses



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Google Forms



19.	45	Mrs. Shilpa Kaman	Karnataka State Akkamahadevi Women's University, Vijayapura	6000	
20.	47	Shabareesh Hegde S R Shravan	Amrita school of arts and sciences, Mysore	8000*	
21.	49	Nimishamba R	Amrita School of Arts and Sciences, Mysuru Campus Amrita Vishwa Vidyapeetham, India	8000*	
22.	43	Sharanamma M Hugar	VTU, Belagavi	6000	
23.	7	Sushma S N	DoS in computer science, University of Mysore	6000	
24.	51	Kruthika C G	University of Mysore	6000	
25.	52	Alfina Sunny	Amrita School of Arts and Sciences Mysore, India	6000	
26.	53	Darshana T	Amrita School of Arts and Sciences Mysore, India	6000	
27.	46	Syeda Bibi Javeriya	Karnataka State Akkamahadevi women's university	2000	



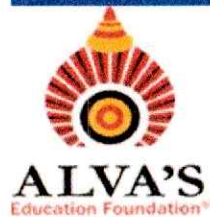
SECOND INTERNATIONAL CONFERENCE ON DATA ANALYTICS & LEARNING 2022 (DAL'22)

ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODABIDRI
&
UNIVERSITY OF MYSORE, MYSURU



**Registered Participants List
(30-12-2022 to 31-12-2022)**

Sl. No.	Name	Department	Signature
1.	SARITHA N	University of Mysore (Research Scholar) 1000/-	Seetha N
2.			
3.			
4.			
5.			
6.			
7.			
8.			
9.			



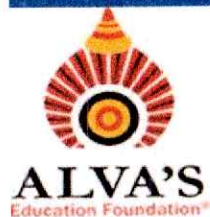
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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODABIDRI
&
UNIVERSITY OF MYSORE, MYSURU



**Registered Author/Co-Author List
(30-12-2022 to 31-12-2022)**

Sl. No.	Paper ID	Name	Affiliation	Amount	Signature
1.	11	Pankaj Kumar Saini <i>Dr. Pankaj MD Meraj, Mohd Javed</i>	IIIT Allahabad	6000	<i>(Pankaj Saini)</i> <i>31/12/22</i>
2.	15	Vaishnavi V Kulkarni	AIET, Moodbidri	6000	<i>VK</i>
3.	16	Sowbhagya Takappa Pujeri	B.M.S. College for Women	6000	<i>SP</i>
4.	25	<i>SANTHOSH S, NMAMIT</i> Bhavatarini N	School of CSE, REVA University	8000*	<i>Sh</i>
5.	28	Deepa Kumari	NMAM Institute of Technology, Nitte (Deemed to be University), Udupi, India	8000*	<i>for Sh</i>
6.	29	<i>Abhishek Gupta</i> Bulla Rajesh <i>Ayush Roy</i>	IIIT Allahabad	6000	<i>abhishek</i>
7.	31	Pushkar Bhat	Manipal Institute of Technology, Manipal	6000	<i>PB</i>
8.	32	Dr.Madhuri G R	Kuvempu University	8000*	<i>MG</i>






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ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY, MOODABIDRI
&
UNIVERSITY OF MYSORE, MYSURU



9.	32	Salma N	Kuvempu University	6000	<i>Salma N</i>
10.	32	Akshata G M	Kuvempu University	6000	<i>Akshata G M</i>
11.	32	Ajaykumar Gupta	Kuvempu University	6000	<i>Ajaykumar Gupta</i>
12.	35	Syroos Zaboli	University of Mysore	6000	<i>Syroos Zaboli</i>
13.	36	Varun Canamede	BMS College of Engineering	6000	<i>Varun Canamede</i>
14.	37	Vasudev Kini T	Manipal Institute of Technology, Manipal	6000	<i>Vasudev Kini T</i>
15.	38	Renuka Tantry	St Joseph Engineering College, Vamanjoor, Mangaluru	8000*	<i>Renuka Tantry</i>
16.	39	Dr. Sufola Das Chagas Silva E Araujo	Padre Conceicao College of Engineering, Goa University, Verna Goa.	8000*	
17.	50	SUMITHRA R	University of Mysore	6000	
18.	44	Rekha Biradar	Karnataka State Akkamahadevi Women's University Vijayapur	6000	<i>Rekha Biradar</i>

19.	45	Mrs. Shilpa Kaman	Karnataka State Akkamahadevi Women's University, Vijayapura	6000	
20.	47	Shabareesh Hegde S R Shravan	Amrita school of arts and sciences, Mysore	8000*	
21.	49	Nimishamba R	Amrita School of Arts and Sciences, Mysuru Campus Amrita Vishwa Vidyapeetham, India	8000*	
22.	43	Sharanamma M Hugar	VTU, Belagavi	6000	
23.	7	Sushma S N	DoS in computer science, University of Mysore	6000	
24.	51	Kruthika C G	University of Mysore	6000	
25.	52	Alfina Sunny	Amrita School of Arts and Sciences Mysore, India	6000	
26.	53	Darshana T	Amrita School of Arts and Sciences Mysore, India	6000	
27.	46	Syeda Bibi Javeriya	Karnataka State Akkamahadevi women's university	2000	