

7th International Conference on Computer Vision & Image Processing (CVIP 2022)

CVIP 2022 Schedule: (November 04 - 06, 2022), VNIT Nagpur

Indian Standard Time [GMT + 5.5 Hours]

Time and Date	November 04, 2022 (Friday)	November 05, 2022 (Saturday)	November 06, 2022 (Sunday)
08.00 AM onwards	CONFERENCE REGISTRATION	BREAKFAST	
08.15 AM - 09.00 AM	INAUGURATION CEREMONY AND HIGH TEA	BREAKFAST	
9:00 AM - 9:45 AM		Keynote 5 (Prof. Daniel P. Lopresti, Lehigh University, USA)	Keynote 9 (Prof. R. Venkatesh Babu, IISc Bangalore)
10:00 AM - 10:45 AM	Keynote 1 (Prof. Ajoy Kumar Ray, IIT Kharagpur)	Keynote 6 (Prof. Bharat Biswal, NJIT USA)	Keynote 10 (Prof. Jayanta Mukhopadhyay, IIT Kharagpur)
11:00 AM - 12:15 PM	Keynote 2 (Prof. Petia Radeva, University of Barcelona)	CVIP - S3 A	CVIP - S6 A
	BRNS Presentation	CVIP - S3 B	CVIP - S6 B
		CVIP - S3 C	CVIP - S6 C
12:15 PM - 1:30 PM	CVIP - S1 A	CVIP - S4 A	CVIP - S7 A
	CVIP - S1 B	CVIP - S4 B	CVIP - S7 B
	Bidding for CVIP 2023	CVIP - S4 C	CVIP - S7 C
01:30 PM - 02:30 PM	Lunch Break		
02:30 PM - 03:15 PM	Keynote 3 (Prof. Fabio Dell'Acqua, University of Pavia)	Keynote 7 (Prof. Ramesh Jain, University of California, USA)	Keynote 11 (Prof. Vikram M. Gadre, IIT Bombay)
03:30 PM - 4:15 PM	Keynote 4 (Prof. Ayellet Tal, Technion, Israel)	Keynote 8 (Prof. Prabir Kumar Biswas, IIT Kharagpur)	Keynote 12 (Prof. Sumantra Dutta Roy, IIT Delhi)
4:15 PM - 4:45 PM	Tea Break		
4:45 PM - 6:00 PM	CVIP - S2 A	CVIP - S5 A	CVIP - S8 A
	CVIP - S2 B	CVIP - S5 B	CVIP - S8 B
	CVIP - S2 C	CVIP - S5 C	
6:30 PM onwards	WORKSHOP ON IMAGE/VIDEO PROCESSING FOR AUTONOMOUS VEHICLES BY MATHWORKS	MUSICAL CONCERT FOLLOWED BY CONFERENCE DINNER	VALEDICTORY CEREMONY AND HIGH TEA

* **Registration** will be started from November 03, 2022 at 02:00 PM and November 04, 2022 at 07:30 AM onwards

Venue: VNIT Auditorium

***Tea break** will be on day 2 and 3 at 10:45 AM to 11:00 AM

Date	Parallel Technical Sessions			Venue
	11:00 AM – 12:15 PM	12:15 PM – 1:30 PM	4:45 PM – 6:00 PM	
November 04, 2022 (Friday)		CVIP - S1 A	CVIP - S2 A	LH-1, ECE Dept.
		CVIP - S1 B	CVIP - S2 B	LH-2, ECE Dept.
		CVIP Bidding	CVIP - S2 C	Seminar Room 1, ECE Dept.
November 05, 2022 (Saturday)	CVIP - S3 A	CVIP - S4 A	CVIP - S5 A	LH-1, ECE Dept.
	CVIP - S3 B	CVIP - S4 B	CVIP - S5 B	LH-2, ECE Dept.
	CVIP - S3 C	CVIP - S4 C	CVIP - S5 C	Seminar Room 1, ECE Dept.
November 06, 2022 (Sunday)	CVIP - S6 A	CVIP - S7 A	CVIP - S8 A	LH-1, ECE Dept.
	CVIP - S6 B	CVIP - S7 B	CVIP - S8 B	LH-2, ECE Dept.
	CVIP - S6 C	CVIP - S7 C		Seminar Room 1, ECE Dept.

November 04, 2022 (Friday)	November 05, 2022 (Saturday)	November 06, 2022 (Sunday)
Keynote 1 (VNIT Auditorium)	Keynote 5 (Online) (LH-1 & LH-2, ECE Dept.)	Keynote 9 (VNIT Auditorium)
Keynote 2 (VNIT Auditorium)	Keynote 6 (VNIT Auditorium)	Keynote 10 (VNIT Auditorium)
Keynote 3 (VNIT Auditorium)	Keynote 7 (VNIT Auditorium)	Keynote 11 (VNIT Auditorium)
Keynote 4 (Online) (LH-1 & LH-2, ECE Dept.)	Keynote 8 (VNIT Auditorium)	Keynote 12 (VNIT Auditorium)

Session ID	CVIP - S1 A	
Date and Time	Nov. 04, 2022, Friday (12:15 PM - 1:30 PM)	
Venue	LH-1 (Smart Class Room, ECE Dept.)	
Session Chairs	Petia Radeva, Praveen Kumar	
Paper ID	Paper Title	Authors Details
9	Anomaly Detection in ATM Vestibules using Three-stream Deep Learning Approach	Mehant Kammakomati (National Institute of Technology Andhra Pradesh)*; Deepak Chowdary Suryadevara (National Institute of Technology, Andhra Pradesh); Srikanth Naik Varthya (National Institute of Technology Andhra Pradesh); Karthick Seshadri (National Institute of Technology, Andhra Pradesh)
21	An Explainable Transfer Learning based approach for Detecting Face Mask	Anjali T (IIITD&M Kancheepuram)*; Masilamani V (IIITDM Kancheepuram)
38	Modified Scaled-YOLOv4: Soccer Player and Ball Detection for Real Time Implementation	Banoth Thulasya Naik (NIT Warangal)*; Mohammad Farukh Hashmi (National Institute of Technology); Avinash Keskar (VNIT NAGPUR)
62	Real-time Violence Detection using Deep Neural Networks and DTW	S N Omkar (Indian Institute of Science)*; Rachna U (PES University); Dhruv Shindhe S (IISc); Varsha Guruprasad (PES University)
115	Computer Vision based Mechanism for detecting Fire and its Classes	Khushi Jashnani (Sardar Patel Institute of Technology, Mumbai); Rishi Kaul (Sardar Patel Institute of Technology); Arka Haldi (Sardar Patel Institute of Technology, Mumbai)*; Anant V Nimkar (Sardar Patel Institute of Technology, Mumbai)

Session ID	CVIP - S1 B	
Date and Time	Nov. 04, 2022, Friday (12:15 PM - 1:30 PM)	
Venue	LH-2 (Smart Class Room, ECE Dept.)	
Session Chairs	Ajoy Kumar Ray, Milind M Mushrif	
Paper ID	Paper Title	Authors Details
35	FlashGAN: Generating Ambient Images from Flash Photographs	Abdul Wasi Lone (Chandigarh University)*; Jeba Shiney O (Chandigarh University); Mahesh Prabu (Samsung Research Institute); Ramesh L Kumar (Samsung R&D Institute India, Bangalore)
43	SINGLE IMAGE DEHAZING USING MULTI PATH NETWORKS BASED ON CHAIN OF U-NETS	S Deivalakshmi (NIT Tiruchirappalli)*; Sudaroli Sandana J (National Institute of Technology, Trichy)
66	An alternate approach for single image haze removal using path prediction	Divyansh Agarwal (Birla Institute of Technology and Science Pilani); Amitesh Singh Rajput (Birla Institute of Technology and Science Pilani)*
85	Adaptive Learning for Leather Image Pre-processing using GAN	Anjli Varghese (BITS Pilani Goa Campus); Malathy Jawahar (CSIR Central Leather Research Institute (CLRI)); Prajwal Gupta (BITS Pilani Goa Campus); A Amalin Prince (BITS Pilani Goa Campus)*
98	Mish-DCTGAN based combined image super-resolution and deblurring approach for blurry License Plates	Anmol Pattanaik (International Institute of Information Technology Bhubaneswar)*; Rakesh Chandra Balabantaray (IIIT Bhubaneswar)

Session ID	CVIP - S2 A	
Date and Time	Nov. 04, 2022, Friday (4:45 PM - 6:00 PM)	
Venue	LH-1 (Smart Class Room, ECE Dept.)	
Session Chairs	Fabio Dell'Acqua, Shiv Ram Dubey	
Paper ID	Paper Title	Authors Details
47	Data-Centric Approach to SAR-Optical Image Translation	Paritosh Tiwari (Indian Institute of Science, Bangalore)*; Muneendra Ojha (Indian Institute of Information Technology - Allahabad)
84	Automated detection of changes in built-up areas for map updating: a case study in Northern Italy	Mattia Stasolla (Royal Military Academy of Belgium); Fabio Dell'Acqua (University of Pavia)*
107	Analyzing Hydro-Estimator INSAT-3D Time Series with Outlier Detection	Neha Sisodiya (Nirma University)*; Keshani Vyas (LD College); Nitant Dube (SAC-ISRO); Priyank B Thakkar (Nirma University)
285	Classification of Synthetic Aperture Radar Images using a modified DenseNet model	Alicia Passah (North-Eastern Hill University)*; DEBDATTA KANDAR (NORTH EASTERN HILL UNIVERSITY)
297	Detection of Narrow River Trails with the Presence of Highways from Landsat 8 OLI Images	Jit Mukherjee (Birla Institute of Technology Mesra)*; Peeyush Gupta (BIT Mesra); Harshit Gautam (BIT Mesra); Renuka Chintalapati (BIT Mesra)

Session ID	CVIP - S2 B	
Date and Time	Nov. 04, 2022, Friday (4:45 PM - 6:00 PM)	
Venue	LH-2 (Smart Class Room, ECE Dept.)	
Session Chairs	Balasubramanian R., Deepak Mishra	
Paper ID	Paper Title	Authors Details
113	An Efficient Deep Transfer Learning Approach for Classification of Skin Cancer Images	Prithviraj Naik (National Institute of Technology Karnataka); Annappa B. (National Institute of Technology Karnataka); Shubham Dodia (National Institute of Technology Karnataka)*
124	Deep Learning based Novel Cascaded Approach for Skin Lesion Analysis	Shubham Innani (SGGS IET)*; Prasad Dutande (SGGS IET, Nanded); Bhakti Vilas Baheti (SGGS IET, Nanded, MH); Ujjwal R Baid (SGGS IET Nanded); Sanjay Talbar (SGGS IET Nanded)
129	A Study on an Ensemble Model for Automatic Classification of Melanoma from Dermoscopy Images	Anil Kumar Adepu (Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram); Subin Sahayam (Indian Institute of Information Technology, Design and Manufacturing, Kancheepuram)*; Rashmika Arramraju (Apollo Institute of Medical Sciences and Research, Hyderabad 500090, India); Dr. Umarani Jayaraman ("Indian Institute of Information Technology, Design and Manufacturing")
180	Attention Residual Capsule Network for Dermoscopy Image Classification	Anabik Pal (SRM University, AP); Sounak Ray (Columbia University); Sameer Antani (U.S. National Library of Medicine, National Institutes of Health); Utpal Garain (Indian Statistical Institute)*
188	Non-invasive Haemoglobin Estimation using Different Colour and Texture Features of Palm	ABHISHEK KESARWANI (National Institute of Technology, Durgapur)*; Sunanda Das (National Institute of Technology, Durgapur); Mamata Dalui (Chakraborty) (NIT Durgapur); Dakshina Ranjan Kisku (NIT Durgapur)

Session ID	CVIP - S2 C	
Date and Time	Nov. 04, 2022, Friday (4:45 PM - 6.00 PM)	
Venue	Seminar Room 1, ECE Dept.	
Session Chairs	Kishor Bhurchandi, Suhas Gajre	
Paper ID	Paper Title	Authors Details
200	Brain tumor grade detection using Transfer learning and Residual Multi-head Attention Network	Dr Jagadeesh Kakarla (IIITDM); Bala Venkateswarlu Isunuri (Indian Institute of Information Technology Design and Management, Kancheepuram)*
239	Colonoscopy Polyp Classification Adding Generated Narrow Band Imaging	Nahush Vishwas Bhamre (IIT Guwahati)*; Vanshali Sharma (IIT Guwahati); Yuji Iwahori (Chubu University); M K Bhuyan (IIT Guwahati); Kunio Kasugai (Aichi Medical University)
251	Statistical Analysis of Hair Detection and Removal Techniques using Dermoscopic Images	Apurva S Shinde (Ramrao Adik Institute of Technology)*; Sangita Chaudhari (Ramrao Adik Institute of Technology)
266	XAIForCOVID-19: A comparative analysis of various explainable AI techniques for COVID-19 diagnosis using chest x-ray images	Nisarg Himanshu Patel (Dhirubhai Ambani Institute of Information and Communications Technology)*; Siddhraj Parmar (Dhirubhai Ambani Institute of Information and Communication Technology); PRIYANKA SINGH (DHIRUBHAI AMBANI INSTITUTE OF INFORMATION AND COMMUNICATION TECHNOLOGY); Manoranjan Mohanty (UTS, Australia)
278	MTFL: Multi-task federated learning for classification of healthcare X-ray images	Priyush Kumar (IIIT Allahabad); Indrajeet Kumar Sinha (Indian Institute of Information Technology Allahabad)*; Krishna Pratap Singh (IIIT Allahabad)

Session ID	CVIP - S3 A	
Date and Time	Nov. 05, 2022, Saturday (11:00 AM - 12:15 PM)	
Venue	LH-1 (Smart Class Room, ECE Dept.)	
Session Chairs	Bharat Biswal, Vishal Satpute	
Paper ID	Paper Title	Authors Details
10	MIS-Net: A deep residual network based on memorised pooling indices for medical image segmentation	Emerson E Nithiyaraj (Mepco Schlenk Engineering Colege)*
37	CT Image Synthesis from MR Image using Edge-aware Generative Adversarial Network	Jiffy Joseph (NIT Calicut)*; Rita Prasanth (NIT Calicut); Sebin Abraham Maret (NIT Calicut); Pournami P N (National Institute of Technology, Calicut); Jayaraj P B (NIT Calicut); Niyas Puzhakkal (MVR Cancer Center and Research Institute)
54	Ischemic Stroke Lesion Segmentation in CT Perfusion Images Using U-Net with Group Convolutions	Chintha Sri Pothu Raju (National Institute of Technology Silchar)*; Anish Monsley Kirupakaran (National Institute of Technology Silchar); Bala Chakravarthy Neelapu (National Institute of Technology Rourkela); Rabul Hussain Laskar (NIT Silchar)
72	Logarithmic Progressive-SMOTE: Oversampling Minorities in Retinal Fundus Multi-Disease Image Dataset	Sachin Devidas Panchal (Shri Guru Gobind Singhji Institute of Engineering and Technology (SGGSJET), Nanded)*
94	Automated Sulcus Depth Measurement on Axial Knee MR Images	Ridhma Khokhar (Punjab Engineering College)*; Manvjeet Kaur (Punjab Engineering College); Sanjeev Sofat (Punjab Engineering College); Devendra K Chouhan (PGIMER, Chandigarh); Mahesh Prakash (PGIMER, Chandigarh)

Session ID	CVIP - S3 B	
Date and Time	Nov. 05, 2022, Saturday (11:00 AM - 12:15 PM)	
Venue	LH-2 (Smart Class Room, ECE Dept.)	
Session Chairs	Avinash Keskar, S.V. Bonde	
Paper ID	Paper Title	Authors Details
16	Hiding Video in Images: Harnessing Adversarial Learning on Deep 3D-Spatio-Temporal Convolutional Neural Networks	Rohit Gandikota (Northeastern University)*, Deepak Mishra (IIST)
53	Linear and Non-Linear Filter-based Counter-Forensics Against Image Splicing Detection	Debjit Das (Indian Institute of Engineering Science and Technology, Shibpur)*; Banalata Bhunia (Vellore Institute of Technology); Ruchira Naskar (Indian Institute of Engineering Science and Technology, Shibpur); Rajat Subhra Chakraborty (IIT Kharagpur)
70	Two Stream RGB-LBP based Transfer Learning Model for Face Anti-Spoofing	Aashania Antil (Delhi Technological University, Delhi); Chhavi Dhiman (Delhi Technological University)*
150	ResUNet: An Automated Deep Learning Model for Image Splicing Localization	Nitish Mr. Kumar (National Institute of Technology Raipur)*; T. Meenpal (NIT Raipur)
267	Features Assimilation via Three-Stream Deep Networks for Spam Attack Detection from Images	Shubham Kumar (Indian Institute of Technology Kanpur); Anirudh Chaudhary (Indian Institute of Technology Kanpur); Devansh Goyal (Indian Institute of Technology Kanpur); Amanjit Singh (Indian Institute of Technology Kanpur); Ashish Yadav (Indian Institute of Technology Kanpur); Samarth Sandeep Roday (Indian Institute of Technology Kanpur); Tushar Sandhan (Indian Institute of Technology Kanpur)*

Session ID	CVIP - S3 C	
Date and Time	Nov. 05, 2022, Saturday (11:00 AM - 12:15 PM)	
Venue	Seminar Room 1, ECE Dept.	
Session Chairs	Raghavendra Ramachandra, Shiv Ram Dubey	
Paper ID	Paper Title	Authors Details
138	A Novel Deep Learning Method for Thermal to Annotated Thermal-Optical Fused Images	SURANJAN GOSWAMI (IIIT Allahabad)*; Satish Kumar Singh (IIIT Allahabad); Prof. B B Chaudhuri (Indian Statistical Institute)
207	Mobile Captured Glass Board Image Enhancement	Boddapati Mahesh (IIIT Hyderabad); Ajoy Mondal (IIIT Hyderabad)*; C.V. Jawahar (IIIT-Hyderabad)
221	Deep Dilated Convolutional Network for Single Image Dehazing	S Deivalakshmi (NIT Tiruchirappalli)*; Sudaroli Sandana J (National Institute of Technology, Trichy)
270	A Transformer based UNet Architecture for fast and Efficient Image Demoreing	Hrishikesh P.S. (Founding minds Software)*; Densen Puthussery (Founding minds Software); Jiji C.V. (College of Engineering Trivandrum)
288	Combining Non-Local Sparse and Residual Channel Attentions for Single Image Super-resolution Across Modalities	Manali H Bhavsar (Dhirubhai Ambani Institute of Information and Communication Technology); Srimanta Mandal (Dhirubhai Ambani Institute of Information and Communication Technology)*

Session ID	CVIP - S4 A	
Date and Time	Nov. 05, 2022, Saturday (12:15 PM - 1:30 PM)	
Venue	LH-1 (Smart Class Room, ECE Dept.)	
Session Chairs	Fabio Dell'Acqua, Harkeerat Kaur	
Paper ID	Paper Title	Authors Details
69	Detecting Tropical Cyclones in INSAT-3D Satellite Images using CNN-based model	Soumyajit Pal (Indian Institute of Information Technology, Kalyani)*; Uma Das (Indian Institute of Information Technology Kalyani); Dr. Oishila Bandyopadhyay (IIIT Kalyani)
108	Scalable Architecture for Mining Big Earth Observation Data: SAMBEO	Neha Sisodiya (Nirma University)*; Keshani Vyas (LD College); Nitant Dube (SAC-ISRO); Priyank B Thakkar (Nirma University)
117	Endmember Extraction with Unknown Number of Sources for Hyperspectral Unmixing	Gouri Shankar Chetia (NIT Meghalaya)*; Bishnulatpam Pushpa Devi (NIT Meghalaya)
144	A case study of rice paddy field detection using Sentinel-1 time series in northern Italy	Fabio Dell'Acqua (University of Pavia)*; David Marzi (University of Pavia)
195	Detection of Coal Quarry and Coal Dump Regions Using the Presence of Mine Water Bodies from Landsat 8 OLI/TIRS Images	Jit Mukherjee (Birla Institute of Technology Mesra)*; Jayanta Mukhopadhyay (IIT Kharagpur); Debashish Chakravarty (IIT Kharagpur)

Session ID	CVIP - S4 B	
Date and Time	Nov. 05, 2022, Saturday (12:15 PM - 1:30 PM)	
Venue	LH-2 (Smart Class Room, ECE Dept.)	
Session Chairs	Subrahmanyam Murala, Puneet Goyal	
Paper ID	Paper Title	Authors Details
119	Fast detection and rule based classification of Bharatanatyam hasta mudra	SOURMEN PAUL (IIT KGP)*; Partha Pratim Das (IIT Kharagpur)
121	MFNet: A Facial Recognition Pipeline for Masked Faces Using FaceNet	Chinju John (IIIT Kottayam)*; Jayakrushna Sahoo (IIIT Kottayam); Nikhil Ghanghor (IIITK)
182	SAMNet : Semantic Aware Multimodal Network for Emoji Drawing Classification	Sourabh Vasant Gothe (SAMSUNG R&D INSTITUTE BANGALORE, KARNATAKA, INDIA)*; Rishabh Khurana (Samsung Research, Bangalore); Jayesh Rajkumar Vachhani (Samsung R&D Institute Bengaluru); Rakshith S (Samsung Research and Development Institute Bangalore); Pranay Kashyap (Samsung Research Institute Bangalore)
249	Bird Species Classification from images using Deep Learning	Manoj Kumar (National Institute of Technology Hamirpur); Arun Kr Yadav (National Institute of Information Technology, Hamirpur(HP), India); Mohit Kumar (National Institute of Technology Hamirpur)*; Divakar Yadav (National Institute of Technology, Hamirpur (HP))
281	Speech-based Automatic Prediction of Interview Traits	Deepak Kumar (Indian Institute of Technology, Roorkee, India)*; Balasubramanian Raman (Indian Institute of Technology Roorkee)

Session ID	CVIP - S4 C	
Date and Time	Nov. 05, 2022, Saturday (12:15 PM - 1:30 PM)	
Venue	Seminar Room 1, ECE Dept.	
Session Chairs	SibiRaj Pillai, Deepak Mishra	
Paper ID	Paper Title	Authors Details
39	CandidNet: A Novel Framework for Candid Moments Detection	Gaurav Ramola (Samsung Research Institute, Bangalore)*; Nikhar Maheshwari (Samsung R&D Institute India, Bengaluru); Sudha Velusamy (Samsung Research Institute, Bangalore)
101	LiSHT: Non-Parametric Linearly Scaled Hyperbolic Tangent Activation Function for Neural Networks	Swalpa Kumar Roy (Jalpaiguri Government Engineering College, Jalpaiguri); Suvojit Manna (CureSkin, Bengaluru, Karnataka); Shiv Ram Dubey (Indian Institute of Information Technology, Allahabad)*; Prof. Bidyut Baran Chaudhuri (ISI Kolkata)
116	A Random Forest-based No-Reference Quality Metric for UGC Videos	Pramit Mazumdar (Indian Institute of Information Technology Vadodara)*; Krishna Kumar (Indian Institute of Information Technology Vadodara); Kamal Kishor Jha (Indian Institute of Information Technology Vadodara); Kamal Lamichhane (Roma Tre University)
125	Attending Local and Global Features for Image Caption Generation	Virendra Kumar Meghwal (MNIT)*; Namita Mittal (MNIT Jaipur); girdhari singh (MNIT)
132	Challenges in Data Extraction From Graphical Labels in the Commercial Products	shahira k c (NITC)*; Lijiya A (NIT Calicut)

Session ID	CVIP - S5 A (Online)	
Date and Time	Nov. 05, 2022, Saturday (4:45 PM - 6:00 PM)	
Venue	LH-1 (Smart Class Room, ECE Dept.)	
Session Chairs	U.V. Kulkarni, R.M. Manthalkar	
Paper ID	Paper Title	Authors Details
44	Leveraging Tri-Planar Views and Weighted Average Fusion Technique to Classify Lung Nodule Malignancy	Samiksha Gupta (IIITA)*; Satish Kumar Singh (IIIT Alahabad); Xiaoyi Jiang (University of Münster)
45	A Bayesian Approach to Gaussian-Impulse Noise Removal using Hessian Norm Regularization	Suman Kumar Maji (IIT Patna)*; Anirban Saha (IIT Patna)
61	Video Colorization using Modified Autoencoder Generative Adversarial Networks	Rishesh Agarwal (Department of Electronics and Communication Engineering, VNIT Nagpur); Manisha Das (Department of Electronics and Communication Engineering, VNIT Nagpur)*; Deep Gupta (VNIT Nagpur); Petia Radeva (University of Barcelona)
118	Advancement in Spectrum Sensing Algorithms in Cognitive Radio Architecture	Tejal Shambharkar (Malaviya national institute of technology jaipur)*; ILA SHARMA (MNIT Jaipur); Shikha Maurya (National Institute of Technology Patna)
148	The UNICT-TEAM vision modules for the Mohamed Bin Zayed International Robotics Challenge 2020	Sebastiano Battiato (Università di Catania); Luciano Cantelli (DIEEI University of Catania); Fabio D'Urso (Università degli Studi di Catania); Giovanni Maria Farinella (University of Catania, Italy); Luca Guarnera (University of Catania)*; Dario Calogero Guastella (Università degli Studi di Catania); Rosario Leonardi (University of Catania); Alessia Li Noce (University of Catania); Giovanni Muscato (DIEEI University of Catania); Alessio Piazza (University of Catania); Francesco Ragusa (University of Catania); Corrado Santoro (Uni CT); Giuseppe Sutura (DIEEI University of Catania); Antonio Zappalà (University of Catania)
256	FAV-Net: A Simple Single-Shot Self-Attention Based ForeArm-Vein Biometric	Shitala Prasad (NTU Singapore)*; Chaoying Tang (College of Automation Engineering, Nanjing University of Aeronautics and Astronautics); Yufeng Zhang (Nanjing University of Aeronautics and Astronautics); Biao Wang (College of Automation Engineering, Nanjing University of Aeronautics and Astronautics)

Session ID	CVIP - S5 B	
Date and Time	Nov. 05, 2022, Saturday (4:45 PM - 6:00 PM)	
Venue	LH-2 (Smart Class Room, ECE Dept.)	
Session Chairs	Prabir Kumar Biswas, Manesh Kokare	
Paper ID	Paper Title	Authors Details
25	Left Ventricle Segmentation of 2D Echocardiography Using Deep Learning	SHAMLA BEEVI A (National Institute of Technology Calicut)*; Swati Upadhyay (National Institute of Technology Calicut); Saidalavi Kalady (NIT Calicut)
41	Cost Efficient Defect Detection in Bangle Industry Using Transfer Learning	Anuranjan Dubey*; Abhinandan Dubey
46	DeepTemplates: Object Segmentation Using Shape Templates	Nikhil Maheshwari (Samsung R&D Institute India, Bengaluru); Gaurav Ramola (Samsung Research Institute, Bangalore); Sudha Velusamy (Samsung Research Institute, Bangalore)*; Raviprasad Kini (Thoughtworks)
64	Skin Disease Detection using Saliency Maps and Segmentation Techniques	Rishit Toteja (Delhi Technological University)*; Dhruv Gupta (Delhi Technological University); Vibhor Gautam (Delhi Technological University); Dinesh Kumar Vishwakarma (Delhi Technological University, Delhi)
183	Segmentation of Smoke Plumes Using Fast Local Laplacian Filtering	Vedant Anand Koranne (Rochester Institute of Technology)*; Emmett Ientilucci (Rochester Institute of Technology); Abhishek Dey (Bethune College); Aloke Datta (NIT Meghalaya); Susmita Ghosh (Jadavpur University)

Session ID	CVIP - S5 C	
Date and Time	Nov. 05, 2022, Saturday (4:45 PM - 6:00 PM)	
Venue	Seminar Room 1, ECE Dept.	
Session Chairs	Ramesh Jain, Pankaj P Singh	
Paper ID	Paper Title	Authors Details
14	HD-VAE-GAN: Hiding Data with Variational Autoencoder Generative Adversarial Networks	Rohit Gandikota (Northeastern University)*, Deepak Mishra (IIST)
257	Low-Textural Image Registration: Comparative Analysis of Feature Descriptors	Vasanth Subramanyam (NIT Jamshedpur)*; Jayendra Kumar (NIT Jamshedpur); Prof. (Dr.) Singh S. N. (NIT Jamshedpur); Roshan Kumar (Henan University); Arvind Yadav (Parul Institute of Engineering and Technology, Parul University)
284	Pneumonia Detection Using Deep Learning Based Feature Extraction and Machine Learning	B H Shekar (Mangalore University); Shazia Mannan (Mangalore University)*; Habtu Hailu (Mangalore University)
298	Unsupervised Image to Image translation for multiple retinal pathology synthesis in optical coherence tomography scans	Hemanth Pasupuleti (Indian Institute of Information Technology Sricity, Chittoor, India)*; Abhishek R. Kothari (Pink City Eye and Retina Center, Jaipur); GN Girish (Indian Institute of Information Technology Sri City, India)
301	Combining Deep-learned and Hand-crafted Features for Segmentation, Classification and Counting of Colon Nuclei in H&E Stained Histology Images	Pranay K Dumbhare (Visvesvaraya National Institute of Technology Nagpur); Yash A Dubey (VNIT); Vedant Phuse (Visvesvaraya National Institute Of Technology, Nagpur); ANKUSH JAMTHIKAR (VNIT Nagpur India); Himanshu P Padole (VNIT, Nagpur); Deep Gupta (VNIT Nagpur)*

Session ID	CVIP - S6 A	
Date and Time	Nov. 06, 2022, Sunday (11:00 AM - 12:15 PM)	
Venue	LH-1 (Smart Class Room, ECE Dept.)	
Session Chairs	R. Venkatesh Babu, Poonam Sharma	
Paper ID	Paper Title	Authors Details
15	Share-GAN: A Novel Shared Task Training in Generative Adversarial Networks for Data Hiding	Rohit Gandikota (Northeastern University)*, Deepak Mishra (IIST)
174	Self Similarity Matrix based CNN Filter Pruning	Rakshith S (Samsung Research and Development Institute Bangalore)*; Jayesh Rajkumar Vachhani (Samsung R&D Institute Bengaluru); Sourabh Vasant Gothe (SAMSUNG R&D INSTITUTE BANGALORE, KARNATAKA, INDIA); Rishabh Khurana (Samsung Research, Bangalore)
228	T2CI-GAN: Text to Compressed Image generation using Generative Adversarial Network	Bulla Rajesh (Indian Institute of information technology, Allahabad)*; Nandakishore Dusa (IIIT Allahabad); Dr. Mohammed Javed (Department of IT, IIIT Allahabad); Shiv Ram Dubey (Indian Institute of Information Technology, Allahabad); P Nagabhushan (Department of IT, IIIT Allahabad)
263	Improvising the CNN Feature maps through Integration of Channel Attention for Handwritten Text Recognition	shashank B N (NIT AP); Dr. Nagesh Bhattu (NIT Andhra Pradesh)*; Dr Sri Phani Krishna K. (NIT Andhra Pradesh)
273	Face Presentation Attack Detection Using Remote Photoplethysmography Transformer Model	Haoyu Zhang (NTNU)*; Raghavendra Ramachandra (NTNU, Norway); Christoph Busch (Norwegian University of Science and Technology)

Session ID	CVIP - S6 B	
Date and Time	Nov. 06, 2022, Sunday (11:00 AM - 12:15 PM)	
Venue	LH-2 (Smart Class Room, ECE Dept.)	
Session Chairs	Kishor Bhurchandi, Puneet Goyal	
Paper ID	Paper Title	Authors Details
140	A Compact-Structured Convolutional Neural Network for Single Image Denoising and Super-Resolution	S Deivalakshmi (NIT Tiruchirappalli)*; Sudaroli Sandana J (National Institute of Technology, Trichy)
163	SRTGAN: Triplet Loss based Generative Adversarial Network for Real-World Super-Resolution	Dhruv Patel (International Institute of Information Technology, Hyderabad)*; Abhinav Jain (IISc); Kishor Upla (Norwegian University of Science and Technology); Manav Khorasiya (Sardar Vallabhbhai National Institute of Technology, Surat); Simran Bawkar (GE Healthcare); Kalpesh J Prajapati (Sardar Vallabhbhai National Institute of Technology); Kiran Raja (NTNU); Raghavendra Ramachandra (NTNU, Norway); Christoph Busch (Norwegian University of Science and Technology)
185	Rain Streak Removal via Spatio-channel based Spectral Graph CNN for Image Deraining	THATIKONDA RAGINI (NATIONAL INSTITUTE OF TECHNOLOGY, WARANGAL)*; Prakash K (NIT Warangal)
186	Integration of GAN and Adaptive Exposure Correction for Shadow Removal	Krunal Mehta (DAIICT)*; Manish Khare (DAIICT); AVIK HATI (Dhirubhai Institute of Information and Communication Technology)
244	A Novel Scheme for Adversarial Training to Improve the Robustness of DNN Against White Box Attacks	N Sai Mani Rohith (National Institute of Technology Calicut)*; Dr. P. P. Deepthi (NIT-Calicut)

Session ID	CVIP - S6 C	
Date and Time	Nov. 06, 2022, Sunday (11:00 AM - 12:15 PM)	
Venue	Seminar Room 1, ECE Dept.	
Session Chairs	Jayanta Mukhopadhyay, Anil B. Gonde	
Paper ID	Paper Title	Authors Details
18	fastText Based Siamese Network for Hindi Semantic Textual Similarity	Rashmi Swamy (NITK)*
93	Improved Classification of Metal Workload Using One Dimensional Convolutional Neural Network and SMOTE Technique	Utpal Singh (Maulana Azad National Institute of Technology)*; Mitul Ahirwal (Maulana Azad National Institute of Technology, bhopal, India)
105	Plant Disease Classification Using Hybrid Features	Vamsidhar Muthireddy (IIIT-Hyderabad)*; C.V. Jawahar (IIIT-Hyderabad)
203	A curated dataset for spinach species identification	Ahila Priyadharshini (Mepco Schlenk Engineering College)*
210	Varietal Classification of Wheat Seeds using Hyperspectral Imaging Technique and Machine Learning Models	Nitin Tyagi (IIT Roorkee)*; Balasubramanian Raman (Indian Institute of Technology Roorkee); Neerja Garg ("CSIR-CSIO, Sec. 30-C, Chandigarh")

Session ID	CVIP - S7 A	
Date and Time	Nov. 06, 2022, Sunday (12:15 PM - 1:30 PM)	
Venue	LH-1 (Smart Class Room, ECE Dept.)	
Session Chairs	Subrahmanyam Murala, Jayendra Kumar	
Paper ID	Paper Title	Authors Details
29	Multi Modal 2-D Canvas based Gallery Content Retrieval	Pragya P Sahu (Samsung R&D - India)*; Vikrant Singh (Samsung R&D Institute Bangalore); Viswanath Veera (Samsung RnD Bangalore)
77	Sequence Recognition in Bharatnatyam Dance	Himadri BGS Bhuyan (IIT Kharagpur); Rohit Dhaipule (Indian Institute of Technology, Kharagpur)*; Partha Pratim Das (IIT Kharagpur)
155	An Efficient Residual Convolutional Neural Network with Attention Mechanism for Smoke Detection in Outdoor Environment	Shubhangi Chaturvedi (Indian Institute of Information Technology, Design and Manufacturing, Jabalpur); Pritee Khanna (Indian Institute of Information Technology Design and Manufacturing Jabalpur); Aparajita Ojha (Indian Institute of Information Technology, Design and Manufacturing, Jabalpur)*
169	Machine Learning Based Webcasting Analytics for Indian Elections - Reflections on Deployment	Sharad Sinha (IIT Goa)*; Aditi Saxena (Indian Institute of Technology Goa)
241	Scene Text Detection with Gradient Auto Encoders	Raveeshwara S (Mangalore University)*; B H Shekar (Mangalore University)

Session ID	CVIP - S7 B	
Date and Time	Nov. 06, 2022, Sunday (12:15 PM - 1:30 PM)	
Venue	LH-2 (Smart Class Room, ECE Dept.)	
Session Chairs	Avinash Keskar, Kishor P. Upla	
Paper ID	Paper Title	Authors Details
171	Real-time Plant Species Recognition using Non-Averaged DenseNet-169 Deep Learning Paradigm	Sathiesh Kumar V (Madras Institute of Technology)*; Anubha Pearline S (Madras Institute of Technology)
175	Class Agnostic, On-Device and Privacy Preserving Repetition Counting of Actions from Videos using Similarity Bottleneck	Rishabh Khurana (Samsung Research, Bangalore)*; Jayesh Rajkumar Vachhani (Samsung R&D Institute Bengaluru); Rakshith S (Samsung Research and Development Institute Bangalore); Sourabh Vasant Gothe (SAMSUNG R&D INSTITUTE BANGALORE, KARNATAKA, INDIA)
208	Computing Digital Signature by Transforming 2D Image to 3D: A Geometric Perspective	Ananda Upadhaya (Tezpur University)*; Arindam Karmakar (Tezpur University)
214	CUSTOMIZED PREVIEW VIDEO GENERATION USING VISUAL SALIENCY: A CASE STUDY WITH VISION DOMINANT VIDEOS	Shivani Madan (PES University)*; Shantanu Singh Chauhan (PES University); Afrah Khan (PES University); Subhash Kulkarni (PESIT - Bangalore South Campus)
271	Auxiliary CNN for graspability modeling with 3D point clouds and images for robotic grasping	Priyanka Varun (IIT KANPUR)*; Tushar Sandhan (Indian Institute of Technology Kanpur); Laxmidhar Behera (IIT MANDI)

Session ID	CVIP - S7 C	
Date and Time	Nov. 06, 2022, Sunday (12:15 PM - 1:30 PM)	
Venue	Seminar Room 1, ECE Dept.	
Session Chairs	Petia Radeva, Shital Chiddarwar	
Paper ID	Paper Title	Authors Details
34	A Segmentation Based Robust Fractional Variational Model for Motion Estimation	PUSHPENDRA KUMAR (Maulana Azad National Institute of Technology Bhopal); Muzammil Khan (Maulana Azad National Institute of Technology Bhopal)*; Nitish Kumar Mahala (Maulana Azad National Institute of Technology Bhopal)
59	Multi-Generator MD-GAN with Reset Discriminator : A Framework to handle Non-IID Data	Bharat Jain (Atal Bihari Vajpayee Indian Institute of Information Technology and Management, Gwalior)*; Dr.W Wilfred Godfrey (IIIT Gwalior)
79	Multi-modality fusion for Siamese Network based RGB-T Tracking (mfSiamTrack)	Chithra A V (Indian Institute of Space Science and Technology)*; Deepak Mishra (Indian Institute of Space Science and Technology)
248	Solving Diagrammatic Reasoning Problems Using Deep Learning	Arif Ahmed Sekh (XIM University, Bhubaneswar)*; Himanshu Choudhary (Indian Institute of Technology, Bhubaneswar); Debi Prosad Dogra (IIT Bhubaneswar)
304	MULTIPLE OBJECT TRACKING BASED ON TEMPORAL LOCAL SLICE REPRESENTATION OF SUB-REGIONS	Sripranav Mannepalli (Indian Institute of Technology Tirupati); Ravi Venkata Sai Maheswara Reddy Satti (Indian Institute of Technology Tirupati); Rohit Shakya (Indian Institute of Technology Tirupati); Kalidas Yeturu (Indian Institute of Technology Tirupati)*

Session ID	CVIP - S8 A	
Date and Time	Nov. 06, 2022, Sunday (4:45 PM - 6:00 PM)	
Venue	LH-1 (Smart Class Room, ECE Dept.)	
Session Chairs	Vikram M. Gadre, Ashwin Kothari	
Paper ID	Paper Title	Authors Details
73	Optimized Reactive navigation through 3D sensor based obstacle perception in AGV	Rapti Chaudhuri (NIT Agartala); Suman Deb (NIT Agartala)*; Soma Saha (NIT Agartala)
240	Multi-class Weather Classification using Single image via feature fusion and selection	Ganesh Deepak (IIT khargpur); Siddish Guddla (IIT kharagpur); Faheema AGJ (CAIR, DRDO)*
252	Traffic Sign Detection and Recognition using Dense Connections in YOLOv4	Swastik Saxena (Indian Institute of Technology, Indore)*
261	Structure-Based Learning for Robust Defense Against Adversarial Attacks in Autonomous Driving Agents	Manoj Sharma (AI4ICPS, IIT Kharagpur); Rudrajit Choudhuri (St Thomas' College of Engineering & Technology)*; Mayank Dixit (Netaji Subhas University of Technology); Mrinmoy Sarkar (Techno International New Town); Bhat Dittakavi (AI4ICPS)
289	An End-to-End Fast No-Reference Video Quality Predictor with Spatiotemporal Feature Fusion	Anish Kumar Vishwakarma (Visvesvaraya National Institute of Technology, Nagpur)*
307	Leaf Spot Disease Severity Measurement in Terminalia Arjuna using Optimized Superpixels	Sourav Samanta (University Institute Of Technology,BU); Dr. Sanjoy Pratihar (IIIT Kalyani)*; Sanjay Chatterji (Indian Institute of Information Technology, Kalyani)

Session ID	CVIP - S8 B	
Date and Time	Nov. 06, 2022, Sunday (4:45 PM - 6:00 PM)	
Venue	LH-2 (Smart Class Room, ECE Dept.)	
Session Chairs	Sumantra Dutta Roy, Kishor Bhojar	
Paper ID	Paper Title	Authors Details
160	Expeditious Object Pose Estimation for Autonomous Robotic Grasping	Sri Aditya Deevi (Indian Institute of Space science and Technology)*; Deepak Mishra (IIST)
178	Vehicle ReID: Learning Robust Feature using Vision Transformer and Gradient Accumulation for Vehicle Re-identification	Rishi Kishore (IIT Patna); Nazia Aslam (IIT Patna)*; Maheshkumar H.Kolekar (IIT patna)
232	Prediction of Fire Signatures Based on Fractional Order Optical Flow and Convolution Neural Network	Shreya Gupta (Maulana Azad National Institute of Technology Bhopal); Muzammil Khan (Maulana Azad National Institute of Technology Bhopal)*; PUSHPENDRA KUMAR (Maulana Azad National Institute of Technology Bhopal)
255	Novel Image and its Compressed Image Based on VVC Standard, Pair Data Set for Deep Learning Image and Video Compression Applications	Rohan lal (IIT MADRAS)*; Prashant Sharma (IIT MADRAS); Devendra Kumar Patel (SATI VIDISHA)
292	Low-Intensity Human Activity Recognition Framework using Audio Data in an Outdoor Environment	PRIYANKAR CHOUDHARY (Indian Institute of Technology Ropar)*; Pratibha Kumari (IIT Ropar); Neeraj Goel (IIT ROPAR); Mukesh Saini (IIT Ropar)
306	An Ensemble Approach for Moving Vehicle Detection and Tracking by using Ni Vision Module	PANKAJ PRATAP SINGH (Central Institute of Technology (CIT) Kokrajhar)*; PREETI RAMCHIARY (Central Institute of Technology (CIT) Kokrajhar); RAKESH BHUYAN (Central Institute of Technology (CIT) Kokrajhar); JAHIRUL ISLAM BORA (Central Institute of Technology (CIT) Kokrajhar); Shitala Prasad (NTU Singapore)