

Fifth IAPR International Conference on Computer Vision & Image Processing (CVIP2020)
Technical Paper Presentation Schedule
Indian Standard Time [GMT + 5.5 Hours]

SessionID	CVIP01	
Date and Time	04-Dec-2020 (12.00PM-1.30PM)	
Session Chairs	Dr. Preeti Khanna, IIITDM Jabalpur	Dr. Sharad Sinha, IIT Goa
Rapporteur	Nayneesh Mishra	Sumit Kumar
Paper ID	Paper Title	Authors Details
35	Dynamic Multimodal Biometric System	Prateek Patil (Motilal Nehru National Institute Of Technology, Allahabad)*; SUNEETA AGARWAL (MNNIT Allahabad)
50	Copy-Move Image Forgery Detection using Spatio-structured SIFT Algorithm	Raimoni Hansda (NIT Meghalaya); Rajashree Nayak (NIT Meghalaya)*; Bunil K Balabantaray (NIT Meghalaya)
100	Handwriting Recognition on Filled-in Form Documents using CNN	Akshada Ananda Shinde (College of engineering, pune)*; Akshada Shinde (college of engineering, pune)
105	A Two Side Histogram Shifting Based Reversible Data Hiding Technique In Encrypted Images	Ruchi Agarwal (Babasaheb Bhimrao Ambedkar University, lucknow)*; Dr. Manoj Kumar (Babasaheb Bhimrao Ambedkar University)
110	Security of Digital Images Based on Stream Cipher and MDS Matrix	Abdul Gaffar (University of Lucknow, Lucknow)*; Anand Joshi (University of Lucknow); DHANESH KUMAR (University of Lucknow, Lucknow)
156	Multi-stream CNN For Face Anti-Spoofing Using Color Space Analysis	Purva M Mhasakar (Dhirubhai Ambani Institute of Information and Communication Technology)*; Srimanta Mandal (DA-ICT, Gandhinagar); Suman Mitra (DAICT)
179	Appearance-invariant Entry-Exit matching using visual soft biometric traits	Vinay Kumar V (University of Mysore)*; Prof. P. Nagabhusan (Mysore University)

SessionID	CVIP02	
Date and Time	04-Dec-2020 (12.00PM-1.30PM)	
Session Chairs	Dr. K. P. Singh, IIITA	Dr. Shiv Ram Dubey, IIIT Sricity
Rapporteur	Nand Kumar Yadav	Albert Mundu
Paper ID	Paper Title	Authors Details
194	Securing Biometric Data over Cloud via Shamir's Secret Sharing	NISHANT RAJ (ABV-IIITM); Debanjan Sadhya (ABV-IIITM Gwalior)*
213	Cancelable Biometric Template Generation using Convolutional Autoencoder	Gourav Siddhad (PDPM IIITDMJ)*; Pritee Khanna (Indian Institute of Information Technology Design and Manufacturing Jabalpur); Dr.Aparajita ojha (IIIT Jabalpur)
221	Accounting for Demographic Differentials in Error rate Assessment of Automated Latent Prints Matching via Covariate-Specific ROC Regression	Emanuela Marasco (George Mason University)*; Mengling He (University of Central Florida); Larry Tang (University of Central Florida); Sumanth Sriram (George Mason University)
279	Clustering of writers and cluster dependent classifier selection for offline signature verification	MANJUNATHA K S (Maharani's Science College for Women Mysore); Annapurna H (University of Mysore)*; Dr. D. S Guru (Mysore University)
302	SigVer - A Deep Learning based Writer Independent Bangla Signature Verification System	Sk Md Obaidullah (Aliah University)*; Himadri Mukherjee (West Bengal State University); Kaushik Roy (WBSU); Umapada Pal (Indian Statistical Institute, Kolkata)
348	A novel Face Print Spoof Detection using color scatter measures in HSI space	Pooja Patil (PESIT - Bangalore South Campus)*; Subhash Kulkarni (PESIT - Bangalore South Campus)
353	FingerPIN: An Authentication Mechanism Integrating Fingerprints and Personal Identification Numbers	Emanuela Marasco (George Mason University)*; Massimiliano Albanese (George Mason University)

SessionID	CVIP03	
Date and Time	04-Dec-2020 (12.00PM-1.30PM)	
Session Chairs	Dr. Ashish Khare, University of Allahabad	Dr. Sanjeev Kumar, IIT Roorkee
Rapporteur	Vyom Kumar Gupta	Gopal Chandra
Paper ID	Paper Title	Authors Details
41	Sign language recognition using cluster and chunk-based feature extraction	Syroos Zaboli (University of Mysore)*
115	Feature Selection and Feature Manifold for Age Estimation	Manisha Sawant (Visvesvaraya National Institute of Technology, Nagpur)*; Shivani Kshatriya (Visvesvaraya National Institute of Technology, Nagpur); K. M. Bhurchandi (VNIT Nagpur)
132	Sign Gesture Recognition from Raw Skeleton Information in 3D Using Deep Learning	Sumit Rakesh (Luleå tekniska universitet, Luleå, Sweden); Saleha Javed (Luleå tekniska universitet, Luleå, Sweden); Rajkumar Saini (Luleå tekniska universitet, Luleå, Sweden)*; Marcus Liwicki (Luleå University of Technology)
133	Dual Gradient Feature Pair Based Face Recognition for Aging and Pose Changes	Betsy Thanga V Shoba (NMCC)*; Shatheesh Sam (NMCC Marthandam)
151	Facial Occlusion Detection and Reconstruction using GAN	Diksha Khas (IIIT Allahabad)*; Sumit Kumar (IIIT Allahabad)
206	Age and Gender Prediction using Deep CNNs and Transfer Learning	Vikas Sheoran (Birla Institute of Technology and Science, Pilani - Hyderabad Campus); Shreyansh Joshi (Birla Institute of Technology and Science, Pilani - Goa Campus)*; Tanisha Bhayani (Independent Researcher, Ahmedabad)

SessionID	CVIP04	
Date and Time	04-Dec-2020 (12.00PM-1.30PM)	
Session Chairs	Prof. U. S. Tiwary, IIIT Allahabad	Dr. M. Tanveer, IIT Indore
Rapporteur	Pravin Kumar	Bulla Rajesh
Paper ID	Paper Title	Authors Details
247	Human Gait Abnormality Detection using Low Cost Sensor Technology	Shaili Jain (National institute of technology rourkela); Anup Nandy (NIT Rourkela)*
258	Face Recognition in Large Age Gap using Single Reference Sample	SUMITHRA R (Dept. of Studies in Computer Science, manasagangotri, Mysore)*; Dr. D. S Guru (Mysore University); Manjunath Aradhya (Sri Jayachamarajendra College Of Engineering); Anitha Ragavendra (Maharaja Institute of Technology, Mysuru)
266	Deep Facial Emotion Recognition System under Facial Mask Occlusion	Suchitra Saxena (PES University)*; Shikha Tripathi (PES BSC); Dr.T.S.B. Sudarshan (PES University)
269	Domain Adaptation based Technique for Image Emotion Recognition using Image Captions	Puneet Kumar (Indian Institute of Technology Roorkee)*; Balasubramanian Raman (Indian Institute of Technology Roorkee)
271	Gesture recognition in sign language videos by tracking the position and medial representation of the hand shapes	syroos zaboli (University of Mysore)*; Sergey Serov (Lomonosov Moscow State University)
350	Face Recognition Using Sf3CNN With Higher Feature Discrimination	Nayaneesh kumar Mishra (Indian Institute of Information Technology, Allahabad)*; Satish Kumar Singh (Indian Institute of Information Technology, Allahabad)

SessionID	CVIP05	
Date and Time	04-Dec-2020 (03.45PM-05.15PM)	
Session Chairs	Prof. Shekhar Verma, IIIT Allahabad	Dr. Murala Subramanian, IIT Ropar
Rapporteur	Nayneesh Mishra	Soumit Chowdhury
Paper ID	Paper Title	Authors Details
272	Meta-tracking and Dominant Motion Patterns at the Macroscopic Crowd Level	Franjo Matković (FER)*; Slobodan Ribaric (University of Zagreb, FER)
45	Air Writing: Tracking and Tracing	Jyotsana Mall (Netaji Subhas University of Technology)*; Deepak Khatri (Netaji Subhas University of Technology); Komal Rani (Netaji Subhas University of Technology)
68	DeepHDR-GIF: Capturing Motion in HighDynamic Range Scenes	Chandan Kumar (Indian Institute of Technology Gandhinagar)*; Ameya Deshpande (IIT gandhinagar); Shanmuganathan Raman (Indian Institute of Technology (IIT) Gandhinagar)
93	Camera Based Parking Slot Detection For Autonomous Parking	Upendra Suddamalla (moovita)*
108	Scene Text recognition in the wild with motion deblurring using deep networks	Sukhad Anand (Delhi Technological University)*; Seba Susan (Delhi Technological University); Shreshtha Aggarwal (Delhi Technological University); Shubham Aggarwal (Delhi Technological University); Rajat Singla (Delhi Technological University)
122	Vision based Autonomous Drone Navigation through enclosed spaces	Sumit Veerawal (Center for AI & Robotics)*; Shashank Bhushan (Drdo); Mohak R Mansharamani (RIT); Bishwajit Sharma (CAIR (DRDO))

SessionID	CVIP06	
Date and Time	04-Dec-2020 (03.45PM-05.15PM)	
Session Chairs	Prof. Suneeta Agrawal, MNNIT Allahabad, Dr. Bibhash Ghoshal, IIIT Allahabad	Dr. Somnath Dey, IIT Indore
Rapporteur	Manoj Tolani	Gopal Chandra
Paper ID	Paper Title	Authors Details
94	Hard-Mining Loss based Convolutional Neural Network for Face Recognition	Yash Srivastava (IIIT Sri City, Chittoor); Vaishnav Murali (IIIT Sri City, Chittoor); Shiv Ram Dubey (IIIT Sri City, Chittoor)*
131	Deep Learning based Smart Parking Management System and Business Model	Yatharth Kher (BITS Pilani Dubai Campus)*
143	Design and Implementation of Motion Envelope for a Moving Object using Kinect for Windows	Jhansi V Setty (Tata Consultancy Services)*; Subarna Chatterjee (Ramaiah University of Applied Sciences)
144	Software Auto Trigger for Super Slow Motion	Rakshit Shukla (SRIB)*; Pradeep Kumar SK (SRIB); Ishu Jain (SRIB)
181	Digital Borders: Design of an Animal Intrusion Detection System based on Deep Learning	Prashanth C Ravoore (PES University)*; Dr.T.S.B. Sudarshan (PES University); Krishnan Rangarajan (Dayananda Sagar College of Engineering)
191	Automatic On-Road Object Detection in LiDAR-Point Cloud Data using Modified VoxelNet Architecture	md meraz (iiit Allahabad)*; Dr. Mohammed Javed (Department of IT, IIIT Allahabad)
205	Computer Vision based Animal Collision Avoidance Framework for Autonomous Vehicles	Savyasachi Gupta (National Institute of Technology Warangal)*; Dhananjai Chand (National Institute of Technology Warangal); Ilaiah Kavati (National Institute of Technology Warangal)

SessionID	CVIP07	
Date and Time	04-Dec-2020 (03.45PM-05.15PM)	

Session Chairs	Dr. Vrijendra Singh IIIT Allahabad	Dr. Prabhu Natarajan, DigiPen Institute of Technology Singapore
Rapporteur	Suranjan Goswami	Bulla Rajesh
Paper ID	Paper Title	Authors Details
237	One Shot Learning Based Human Tracking in Multiple Surveillance Cameras	Md Meraz (IIIT Allahabad)*; Mohammed Javed (IIIT Allahabad); Arul Prakash (IIIT Allahabad)
240	Fast road sign detection and recognition using colour-based thresholding	farah J Ansari (IIT Delhi)*; Sumeet Agarwal (Indian Institute of Technology Delhi)
250	Deep Learning and Density Based Clustering Methods for Road Traffic Prediction	Jagadish D N (Indian Institute of Information Technology Dharwad)*; Lakshman Mahto (Indian Institute of Information Technology Dharwad); Arun Chauhan (Indian Institute of Information Technology Dharwad)
257	Deep learning based Stabbing Action Detection in ATM Kiosks for intelligent Video Surveillance Applications	Yogameena Balasubramanian (Thiagarajar College of Engineering)*; Menaka Kandasamy (V.S.B.Engineering College, Karur); Saravana Perumaal S (Thiagarajar College of Engineering, Madurai)
286	Detection based Multipath Correlation Filter for Visual Object Tracking	Himadri S Bhunia (IIT KHARAGPUR)*; Alok Kanti (IIT Kharagpur); Jayanta Mukherjee (IIT Kharagpur)

SessionID	CVIP08	
Date and Time	04-Dec-2020 (03.45PM-05.15PM)	
Session Chairs	Dr. Gaurav Gupta, Wenzhou-Kean University, China	Dr. Anjali Gautam, IIIT Allahabad
Rapporteur	Vyom Kumar Gupta	Nand Kumar Yadav
Paper ID	Paper Title	Authors Details
89	A Combined Wavelet and Variational Mode Decomposition Approach for Denoising Texture Images	Gokul R (Amrita Vishwa Vidyapeetham)*; Nirmal A (Amrita Vishwa Vidyapeetham); Dinesh Kumar G (Amrita Vishwa Vidyapeetham); Karthic S (Amrita Vishwa Vidyapeetham); Palanisamy T (Amrita Vishwa Vidyapeetham)
91	Two-Image approach of Reflection Removal with Deep Learning	rashmi chaurasiya (IGDTUW, New Delhi)*; Dr. Dinesh Ganotra (IGDTUW, New Delhi)
104	Image Aesthetic Assessment: A Deep Learning Approach using Class Activation Map	shyam sherashiya (DAIICT); Gitam C Shikkenawis (C R Rao Advanced Institute of Mathematics, Statistics and Computer Science)*; Suman Mitra (DAIICT)
124	Generative Adversarial Network for Heritage Image Super Resolution	Rajashree Nayak (NIT Meghalaya)*; Bunil K Balabantaray (NIT Meghalaya)
128	Deep Learning Based Image Enhancement and Black Box Filter Parameter Estimation	Mrigakshi Sharma (Samsung R&D Institute, Bangalore); Rishabh Mittar (Samsung R&D Institute, Bangalore)*; Prasenjit Chakraborty (Samsung R&D Institute India - Bangalore)
137	Lightweight Photo-realistic Style Transfer for Mobile devices	Mrinmoy Sen (Samsung R&D Institute India - Bangalore)*; Mineni Niswanth Babu (Samsung R&D Institute India - Bangalore); Rishabh Mittar (Samsung R&D Institute, Bangalore); Prasenjit Chakraborty (Samsung R&D Institute India - Bangalore)

SessionID	CVIP09	
Date and Time	05-Dec-2020 (10.00AM-11.30AM)	
Session Chairs	Prof. G. C. Nandi, IIIT Allahabad	Dr. Ankit Chaudhary, University of Missouri - St. Louis, USA, Dr. Vrijendra Singh, IIIT Allahabad
Rapporteur	Suranjan Goswami	Jitendra Shastri
Paper ID	Paper Title	Authors Details
157	Multi-focus fusion using image matting and geometric mean of DCT-Variance	Manali Roy, Susanta Mukhopadhyay, IIT(ISM), Dhanbad (IIT, (ISM) Dhanbad)
166	Edge detection on medical images using intuitionistic fuzzy logic	Nidhi Tripathi (ABV-IIITM Gwalior); Deepak Kumrawat (ABV-IIITM Gwalior); Venkata Keerthi Gottimukkala (ABV-IIITM Gwalior); Jeevaraj S (ABV-IIITM Gwalior); Dr.W Wilfred Godfrey (IIIT Gwalior)*
207	DarkGAN: Night Image Enhancement using Generative Adversarial Networks	Prasen Alaspure (Indian Institute of Technology Ropar)*; Praful Hambarde (Indian Institute of Technology Ropar); Akshay A Dudhane (IIT Ropar); Subrahmanyam Murala (IIT Ropar)
239	A Graph Spectral Approach for Restoring Images Corrupted by Shot-noise	Jidesh P (National Institute of Technology Karnataka, Surathkal, India)*; BINI AA (INDIAN INSTITUTE OF INFORMATION TECHNOLOGY KOTTAYAM)
241	ECASR: Efficient Channel Attention based Super-Resolution	Sameeran Borah (IIIT Guwahati); Nilkanta Sahu (IIIT Guwahati)*

SessionID	CVIP10	
Date and Time	05-Dec-2020 (10.00AM-11.30AM)	
Session Chairs	Prof. S. K. Singh, IIT-BHU, Varanasi	Dr. Debashish Sen, IIT Kharagpur
Rapporteur	Dipti Mishra	
Paper ID	Paper Title	Authors Details
281	Correcting Low Illumination Images using PSO-based Gamma Correction and Image Classifying Method	Swadhin Das (IIT DHANBAD)*; Manali Roy (IIT, (ISM) Dhanbad); Sushanta Mukhopadhyay (IIT DHANBAD)

297	DeblurRL: Image Deblurring with Deep Reinforcement Learning	Jai Singhal (BITS Pilani); Pratik Narang (Birla Institute of Technology and Science, Pilani, Pilani Campus)*
307	Enhancement of Region of Interest from a Single Backlit Image with Multiple Features	GAURAV YADAV (National Institute of Technology, Jamshedpur); Dilip Kumar Yadav (National Institute of Technology, Jamshedpur); Chandra Mouli P.V.S.S.R. (Central University of Tamil Nadu, Thiruvavur)*
349	A Pre-Processing Assisted Neural Network for Dynamic Bad Pixel Detection in Bayer Images	Girish Kalyanasundaram (Samsung Electronics); Puneet Pandey (Samsung Electronics, Bengaluru)*; Manjit Hota (Samsung Electronics, Bengaluru)
352	Image Solution of Stochastic Differential Equation of Diffusion Type Driven by Brownian Motion	Vikas Kumar Pandey (Jaypee institute of information technology noida u.p. india); Dr. Himanshu Agarwal (Jaypee Institute of Information Technology, Noida, India)*; Amrisha Kumar Aggarwal (Jaypee Institute of Information Technology, Noida, India)

SessionID	CVIP11	
Date and Time	05-Dec-2020 (10.00AM-11.30AM)	
Session Chairs	Prof. D. S. Guru, University of Mysore	Dr. K. C. Santosh, University of South Dakota, USA
Rapporteur	Albert Mundu	Pravin Kumar
Paper ID	Paper Title	Authors Details
47	Action Recognition in Haze Using an Efficient Fusion of Spatial and Temporal Features	Sri Girinadh Tanneru (IIIT SriCity); Snehasis Mukherjee (Shiv Nadar University)*
48	Human Action Recognition from 3D Landmark Points of the Performer	Snehasis Mukherjee (Shiv Nadar University)*; Chirumamilla Nagalakshmi (IIIT SriCity)
135	Dynamic User Interface Composition	Rahul Kumar (Samsung R&D Institute India-Bangalore); Shankar Natarajan (Samsung R&D Institute India-Bangalore); Mohamed Akram Ulla Shariff (Samsung R&D Institute India - Bangalore)*; Parameswaranath V Mani (Samsung R&D Institute India-Bangalore)
142	Cricket Stroke Recognition using Hard and Soft Assignment based Bag of Visual Words	Arpan Gupta (The LNM Institute of Information Technology)*; Ashish Karel (The LNM Institute of Information Technology); Sakthi Balan Muthiah (The LNM Institute of Information Technology)
212	Precise Recognition of Vision based Multi-Hand Signs using Deep Single Stage Convolutional Neural Network	RUBIN BOSE S (MADRAS INSTITUTE OF TECHNOLOGY)*; Sathiesh Kumar V (Madras Institute of Technology)
323	Complex Gradient Function based descriptor for iris biometrics and action recognition	B H Shekar (Mangalore University); Rathnakara Shetty P (Mangalore University)*; Sharada S Bhat (Government First Grade College Ankola)

SessionID	CVIP12	
Date and Time	05-Dec-2020 (10.00AM-11.30AM)	
Session Chairs	Dr. Ajita Rattani, Wichita State University, USA, Dr. S. K. Singh, IIIT Allahabad	Prof. Aparajita Ojha, IIITDM Jabalpur
Rapporteur	Anamika Jain	
Paper ID	Paper Title	Authors Details
121	Accelerated Stereo Vision Using Nvidia Jetson and Intel AVX	Imran A Syed (IIT Bombay)*
171	Domain Knowledge Embedding based Multimodal Intent Analysis in Artificial Intelligence Camera	Mervin Lawrence Dalmat (Samsung)*; Dinesh Viswanadhuni (Samsung); Raghavendra Kalose (Samsung)
308	Real-time Sign Language Interpreter on Embedded Platform	Himanshu M Mulchandani (Sarvajani College of Engineering and Technology, Surat)*; Chirag Paunwala (Sarvajani College of Engineering and Technology, Surat)
335	On-Device Language Identification of Text in Images using Diacritic Characters	Shubham Vatsal (Samsung R&D)*; Nikhil Arora (Samsung R&D); Dhruval Jain (Samsung Research Institute Bangalore (SRIB)); Gopi Ramana (Samsung Research India Bangalore); Naresh Purre (Samsung R&D); Sukumar Moharana (Samsung Research & Development Institute Bangalore)

SessionID	CVIP13	
Date and Time	05-Dec-2020 (03.45PM-05.15PM)	
Session Chairs	Prof. Rajeev Srivastava, IIT-BHU, Varanasi	Dr. Bunil Kumar, NIT Meghalaya
Rapporteur	Soumit Chowdhury	
Paper ID	Paper Title	Authors Details
117	Degraded Document Image Binarization using Active Contour Model	Deepika Gupta (IIT ISM Dhanbad)*; SOUMEN BAG (IIT (ISM) Dhanbad)
147	Multi-lingual Indian Text Detector for Mobile Devices	Veronica Naosekham (IIIT Guwahati)*; Naukesh Kumar (Indian Institute of Information Technology, Guwahati); Nilkanta Sahu (IIIT Guwahati)
209	Text Line Segmentation: A FCN based approach	Annie Minj (IIEST, Shibpur); Arpan Garai (IIEST, Shibpur)*; Sekhar Mandal (Indian Institute of Engineering Science and Technology)
280	DeepDoT: Deep framework for detection of tables in document images	Mandhatya Singh (IIT ROPAR)*; Puneet Goyal (IIT Ropar)

351	Recognition of Online Handwritten Bangla and Devanagari Basic Characters: A Transfer Learning Approach	Shibaprasad Sen (FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT)*; Rajat Subhra Chakraborty (FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT); Soumyajit Saha (FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT); Ankan Bhattacharyya (FUTURE INSTITUTE OF ENGINEERING & MANAGEMENT); DR. RAM SARKAR (JU); Kaushik Roy (WBSU)
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SessionID	CVIP14	
Date and Time	05-Dec-2020 (03.45PM-05.15PM)	
Session Chairs	Prof. Suman Mitra, DAICT, Gandhinagar	Dr. Gaurav Bhatnagar, IIT Jodhpur
Rapporteur	Manoj Tolani	Jitendra Shastri
Paper ID	Paper Title	Authors Details
55	F-UNet: A Modified U-Net Architecture For Segmentation Of Stroke Lesion	Hritam Basak (Jadavpur University)*; Ajay Rana (SRM Institute of Science and Technology)
58	Radial Cumulative Frequency Distribution: A new imaging signature to detect chromosomal arms 1p/19q codeletion status in glioma	Debanjali Bhattacharya (International Institute of Information Technology Bangalore); Neelam Sinha (IIIT Bangalore)*; Jitender Saini (NIMHANS, Bangalore)
76	CT Scan Transformation from a Sharp to a Soft Reconstruction Kernel using Filtering Techniques	Adam Piorkowski (AGH University of Science and Technology)*
99	Deep neural network for Pneumonia detection using Chest X-rays	Himadri Mukherjee (West Bengal State University)*; Bubai Das (West Bengal State University); Sahana Das (West Bengal State University); Ankita Dhar (West Bengal State University); Sk Md Obaidullah (Aliah University); SANTANU PHADIKAR (Maulana Abul Kalam Azad University of Technology); KC Santosh (U. Of South Dakota); Kaushik Roy (WBSU)
112	Retinal Vessel Segmentation using Joint Relative Entropy Thresholding on Bowler Hat Transform	Iman Junaid (VSSUT, Burla)*; Uma Ranjan Jena (VSSUT); Pranaba K. Mishro (VSSUT, Burla)

SessionID	CVIP15	
Date and Time	05-Dec-2020 (03.45PM-05.15PM)	
Session Chairs	Prof. Debashish Ghosh, IIT Roorkee,	Dr. Deepak Jain, Chongqing University of Posts and Telecommunications, China, Dr. Satish Kumar Singh, IIIT Allahabad
Rapporteur	Akhilesh Panchal	Harsh Srivastava
Paper ID	Paper Title	Authors Details
129	Semantic segmentation of nuclei from breast histopathological images by incorporating attention in U-Net	Rashmi R (Manipal Academy of Higher Education); Keerthana Prasad (SOIS)*; Chethana Babu k Udupa (Kasturba Medical College)
140	Automated diagnosis of COVID-19 from CT scans based on concatenation of Mobilenetv2 and ResNet50 features	Dr. Taranjit Kaur (Indian Institute of Technology, Delhi (IIT Delhi))*; Tapan Kumar Gandhi (IIT Delhi)
148	An Ensemble Method for Efficient Classification of Skin Lesion from Dermoscopy Image	Habtu H Ashenek (Mangalore University)*
154	Enhancement of Deep Learning in Image Classification Performance Using VGG16 with Swish Activation Function for Breast Cancer Detection	Debendra Muduli (NIT, Rourkela)*; Ratnakar Dash (NIT Rourkela); Banshidhar Majhi (NIT Rourkela)
162	Deep learning based lens for mitigating hospital acquired infections	Pratibha Sanjay Gawali (COEP,Pune); Ritika Latke (Baystate Wing Hospital); DR. Prashant P. Bartakke (COEP); Anant Shinde (University of Massachusetts, Amherst)*

SessionID	CVIP16	
Date and Time	05-Dec-2020 (03.45PM-05.15PM)	
Session Chairs	Dr. Chirag Paunwala, SCET Surat	Dr. Vrijendra Singh, IIIT Allahabad
Rapporteur	Sumit Kumar	Suranjan Goswami
Paper ID	Paper Title	Authors Details
167	Border to border distance based method for detecting Juxta-pleural nodules	Jenkin Suji (ABV-IIITM)*; Dr. W Wilfred Godfrey (IIIT Gwalior); J DHAR (IIITM)
188	A Nonlocal Spatial Coherent Fuzzy C-means Clustering for Bias Field Correction in Brain MR Images	Pranaba K Mishro (VSS University of Technology, Burla)*; Sanjay Agrawal (VSS University of Technology, Burla); Rutuparna Panda (VSS University of Technology, Burla)
216	A Novel method for Cephalometric Landmark Regression using Convolutional Neural Networks and Local Binary Pattern	Rashmi S (JSS Science and Technology University)*; Vani Ashok (JSS Science and Technology University)
219	MULTI-CLASS GLIOMA CLASSIFICATION FROM MRI IMAGES USING 3D CONVOLUTIONAL NEURAL NETWORKS	Subin Sahayam (Indian Institute of Information Technology, Design and Manufacturing)*; Dr. Umarani Jayaraman ("Indian Institute of Information Technology, Design and Manufacturing"); Bhaskara Teja (Indian Institute of Information Technology, Design and Manufacturing)
234	A semi-supervised Generative Adversarial Network for Retinal Analysis from Fundus images	Jidesh Padikkal (National Institute of Technology Karnataka)*; Smitha A (National Institute of Technology Karnataka)

SessionID	CVIP17	
Date and Time	05-Dec-2020 (05.30PM-07.00PM)	

Session Chairs	Dr. Basant Kumar, MNNIT Allahabad		Dr. Md Javed, IIIT Allahabad	
Rapporteur	Anamika Jain		Nand Kumar Yadav	
Paper ID	Paper Title	Authors Details		
242	Transfer Learning Based COVID-19 Patient Classification	Vrinda Rastogi (Indira Gandhi Delhi Technical University for Women); Sahima Srivastava (Indira Gandhi Delhi Technical University for Women); Dr. Chandra Prakash (NIT delhi)*; Dr Rishav Singh (NIT Delhi)		
252	Automated Scoring of Metaphase Cell Images and Identification of Dcentric Chromosomes	Muhammad Ubadah (IIT Delhi)*; Kishore Kumar Singh (IIT Mandi); Anil Kumar Sao (IIT Mandi); Arnav Bhavsar (IIT Mandi); Shuchi Bhagi (INMAS); Amit Alok (INMAS); N.K. Chaudhury (INMAS)		
293	Evaluation of Auto-encoder Network with Photoacoustic Signal for Unsupervised Classification of Prostate Cancer	Megha Patil (Visvesvaraya National Institute of Technology); Saugata Sinha (VNIT, Nagpur)*		
299	An efficient approach for Skin Lesion Segmentation using Dermoscopic Images: A Deep Learning Approach	Kishore Babu Nampalle (Indian Institute of Technology Roorkee)*; Balasubramanian Raman (Indian Institute of Technology Roorkee)		
309	Colorectal Cancer Segmentation using Atrous Convolution and Residual Enhanced UNet	Nisarg A Shah (Indian Institite of Technology, Jodhpur)*; Divij Gupta (IIT Jodhpur); Ujjwal R Baid (SGGSIET Nanded); Romil Lodaya (SGGSIET Nanded); Sanjay Talbar (SGGSIET Nanded)		

SessionID	CVIP18			
Date and Time	05-Dec-2020 (05.30PM-07.00PM)			
Session Chairs	Dr. Pavan Chakraborty, IIIT Allahabad		Dr. Surya Prakash, IIT Indore	
Rapporteur	Harsh Srivastava		Akhilesh Panchal	
Paper ID	Paper Title	Authors Details		
196	On the Performance of Convolutional Neural Networks under High and Low Frequency Information	Roshan Reddy (Indian Institute of Information Technology, Sri City, Chittoor); Shiv Ram Dubey (Indian Institute of Information Technology, Sri City, Chittoor)*		
170	Few Shots Learning: Caricature to Image Recognition using Modified Relation Network	Rashi Agrawal (Indian Institute of Information Technology Allahabad); Upendra Pratap Singh (Indian Institute of Information Technology)*; Krishna Pratap Singh (IIIT Allahabad)		
172	Recognition of Adavus in Bharatanatyam Dance	Himadri BGS Bhuyan (IIT Kharagpur)*; Partha Pratim Das (IIT Kharagpur)		
198	A Lightweight Multi-Label Image Classification Model Based on Inception Module	Shreya Jain (IIITDM Jabalpur)*; Poornima S Thakur (PDPM IIITDM Jabalpur); Kusum Kumari Bharti (IIITDM Jabalpur); Pritee Khanna (Indian Institute of Information Technology Design and Manufacturing Jabalpur); Dr.Aparajita ojha (IIIT Jabalpur)		
227	Learning to Prune Faster	Manoj Rohit Vemparala (BMW Group)*; Nael Fafous (Technical University of Munich); Alexander Frickenstein (BMW Group); Mhd Ali Moraly (BMW AG); Aquib Jamal (BMW AG); Lukas Frickenstein (BMW Group); Christian Unger (BMW); Naveen Shankar Nagaraja (BMW Group); WALTER STECHELE (Technical University of Munich, Germany)		
228	Efficient Ensemble Sparse Convolutional Neural Networks with Dynamic Batch Size	Shen Zheng (Wenzhou Kean University); Liwei Wang (Wenzhou Kean University); GUARAV GUPTA (Wenzhou-Kean University)*		

SessionID	CVIP19			
Date and Time	05-Dec-2020 (05.30PM-07.00PM)			
Session Chairs	Dr. Anand Singh Jalal, GLA University, Mathura		Dr. Anup Nandy, NIT Rourkela	
Rapporteur	Suranjan Goswami		Pravin Kumar	
Paper ID	Paper Title	Authors Details		
229	Inferring Semantic Object Affordances from Videos	Rupam Bhattacharyya (Tezpur University)*; Zubin Bhuyan (University of Massachusetts, Lowell); Shyamanta Hazarika (IIT Guwahati)		
235	An Unsupervised Approach for Estimating Depth of Outdoor Scenes from Monocular Image	H Pallab J Dutta (IIT Guwahati)*; M K Bhuyan (IIT Guwahati); Shankhanil Mitra (IIT Guwahati)		
243	Dimensionality Reduction by Consolidated Sparse Representation and Fisher Criterion with Initialization for Recognition	Parita Chavda (DA-IICT, Gandhinagar)*; Srimanta Mandal (DA-IICT, Gandhinagar); Suman Mitra (DAIICT)		
296	Graph-based depth estimation in a monocular image using constrained 3D wireframe models	H Pallab J Dutta (IIT Guwahati)*; M K Bhuyan (IIT Guwahati)		
310	AE-CNN based Supervised Image Classification	Mani Chandra (IIT Hyderabad)*; Challa Muralidhar Reddy (IIT Hyderabad)		

SessionID	CVIP20			
Date and Time	05-Dec-2020 (05.30PM-07.00PM)			
Session Chairs	Dr. Nagendra Pratap Singh, NIT Hamirpur		Dr. Partha Pratim Roy, IIT Roorkee	
Rapporteur	Nayneesh Mishra		Sumit Kumar	
Paper ID	Paper Title	Authors Details		
311	Ensemble based Graph Convolutional Network for Semi supervised learning	RAKESH KUMAR YADAV (IIIT Allahabad)*; Manikanta Moghili (IIIT Allahabad); ABHISHEK SINGH (IIIT Allahabad); PRASHANT SHUKLA (IIIT Allahabad); Shekhar Verma (IIIT Allahabad)		

339	High Performance Ensembled Convolutional Neural Network for Plant Species Recognition	Anubha Pearline S (Madras Institute of Technology)*; Sathiesh Kumar V (Madras Institute of Technology)
316	A Novel Approach for Video Captioning based on Semantic Cross Embedding and Skip-Connection	Nishanth Bandari (National Institute of Technology Karnataka)*; Rakesh Radarapu (National Institute of Technology Karnataka); Satwik Muthyam (National Institute of Technology Karnataka); Dinesh Naik (National Institute of Technology Karnataka)
322	Real Time Driver Drowsiness Detection Using GRU with CNN Features	Dhiraj Sangwan (Senior Scientist)*; Ayush Srivastava (Birla Institute of Technology and Science, Pilani)
314	Regularized Deep Convolutional Generative Adversarial Network	ADARSH PRASAD BEHERA (IIIT Allahabad)*; Sayli Godage (IIIT Allahabad); Shekhar Verma (IIIT Allahabad); Manish Kumar (IIIT Allahabad)

SessionID		CVIP21	
Date and Time		06-Dec-2020 (09.00AM-10.00AM)	
Session Chairs		Prof. R Krishnan, Adjunct Professor, IIIT Allahabad	
Rapporteur		Jitendra Kumar	Manoj Tolani
Paper ID	Paper Title	Authors Details	
60	Mars Surface Multi-Decadal Change Detection using ISRO's Mars Color Camera (MCC) and Viking Orbiter images	Indranil Misra (Space Applications Centre ISRO)*; Mukesh Kumar Rohil (Birla Institute of Technology & Science, Pilani, India); Manthira Moorthi S (ISRO); Debajyoti Dhar (ISRO)	
103	Domain Adaptive Egocentric Person Re-identification	Ankit Choudhary (Indian Institute of Space Science and Technology)*; Deepak Mishra (IIST); Arnab Karmakar (Human Space Flight Center, ISRO)	
263	An algorithm for semantic vectorization of videoscenes - Applications to Retrieval and Anomalydetection	Komuravelli Prashanth (Indian Institute of Technology, Tirupati); Kalidas Yeturu (Indian Institute of Technology Tirupati)*; Jay Rathod (Indian Institute of Technology Tirupati); Sai Prem Kumar Ayyagari (Indian Institute of Technology Tirupati); Aakash Deep (Indian Institute of echnology Tirupati)	
273	Digital Video Encryption by Quasigroup on System on Chip(SoC)	deepthi haridas (Advanced Data Processing Research Institute(ADRIN))*	
321	Edge based Robust and Secure Perceptual Hashing Framework	Satendra Pal Singh (IIT Jodhpur)*; Gaurav Bhatnagar (IIT Jodhpur)	

SessionID		CVIP22	
Date and Time		06-Dec-2020 (12.00PM-01.30PM)	
Session Chairs		Prof. R. Balasubramanian, IIT Roorkee	
Rapporteur		Bulla Rajesh	Dr. T Pant, IIIT Allahabad
Paper ID	Paper Title	Authors Details	
32	U-Net-Based Approach for Segmentation of Tables from Scanned Pages	Ravish Kumar Sharma (BML Munjal University)*; Romit Bhattacharaya (BML Munjal University); Ratna Sanyal (NIIT University); Sudip Sanyal (NIIT University)	
67	Deep Over and Under Exposed Region Detection	Darshita Jain (Indian Institute of Technology, Gandhinagar)*; Shanmuganathan Raman (Indian Institute of Technology (IIT) Gandhinagar)	
164	Using Class Activations to Investigate Semantic Segmentation	Manas Satish Bedmutha (Indian Institute of Technology (IIT) Gandhinagar)*; Shanmuganathan Raman (Indian Institute of Technology (IIT) Gandhinagar)	
320	Modified OTSU Method for Road Segmentation of Mobile Robots on Unstructured Roads	Kethavath Raj Kumar (DRDO)*; Narayan Panigrahi (CAIR)	
329	Detection of Concave Points in Closed Object Boundaries Aiming at Separation of Overlapped Objects	Sourav Mandal (IIIT Kalyani); Dr. Oishila Bandyopadhyay (IIIT Kalyani); Dr. Sanjoy Pratihari (IIIT Kalyani)*	

SessionID		CVIP23	
Date and Time		06-Dec-2020 (12.00PM-01.30PM)	
Session Chairs		Dr. Puneet Goyal, IIT Ropar	Dr. Manish Khare, DAIICT Gandhinagar
Rapporteur		Akhilesh Panchal	Harsh Srivastava
Paper ID	Paper Title	Authors Details	
34	An Approach for Fraction of Vegetation Cover Estimation in Forest Above-Ground Biomass Assessment Using Sentinel-2 Images	Praveen Kumar (Birla Institute of Technology Mesra, Ranchi); Akhouri P Krishna (Birla Institute of Technology Mesra, Ranchi); Mahendra Kumar Pal (Lulea University of Technology)*	
77	Development of an Automated Monitoring and Warning System for Landslide Prone Sites	ANKITA SALDHI (IIT Delhi)*; Subrat Kar (IIT Delhi)	
153	A Two-Phase Splitting Approach for the Removal of Gaussian-Impulse Noise from Hyperspectral Images	HAZIQUE AETESAM (IIT Patna)*; SUMAN KUMAR MAJI (IIT Patna); JEROME BOULANGER (MRC Laboratory of Molecular Biology, Cambridge Biomedical Campus)	
326	Deep Learning Based Detection of Rhinoceros Beetle Infestation in Coconut Trees using Drone Imagery	Atharva A Kadethankar (IIIT Bangalore)*; Neelam Sinha (IIIT Bangalore)	
334	CROP CLASSIFICATION FROM UAV-BASED MULTI-SPECTRAL IMAGES USING DEEP LEARNING	Sudarshan Rao B (IIIT Bangalore)*; Manjit Hota (IIIT Bangalore); Uttam Kumar (IIIT Bangalore)	

SessionID		CVIP24	
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Date and Time	06-Dec-2020 (12.00PM-01.30PM)	
Session Chairs	Dr. Pradeep Singh, NIT Raipur	Dr. Debanjan Sadhya, IIITDM Jabalpur
Rapporteur	Soumit Chowdhury	Albert Mundu
Paper ID	Paper Title	Authors Details
27	Recognition and Systematization of grape leaf diseases using Artificial Intelligence paradigms: A Synopsis	Swetha Pai (Vimal jyothi engineering college)*; Manoj Thomasa (VJEC)
95	Visual Question Answering using Deep Learning: A Survey and Performance Analysis	Yash Srivastava (IIIT Sri City, Chittoor); Vaishnav Murali (IIIT Sri City, Chittoor); Shiv Ram Dubey (IIIT Sri City, Chittoor)*; Snehasis Mukherjee (IIIT Sri City, Chittoor)
107	RingFIR: A large volume earring dataset for fashion image retrieval	Maidul Islam Sk (Global Institute of Science & Technology)*; Subhankar Joardar (Haldia Institute of Technology); Arif Ahmed Sekh (UiT The Arctic University of Norway)
123	A Novel Machine Annotated Balanced Bangla OCR Corpus	Md Jamiur Rahman Rifat (Apurba Technologies)*; Mridul Banik (Apurba Technologies); Nazmul Hasan (Apurba Technologies); Jebun Nahar (Apurba Technologies); Fuad Rahman (Apurba Technologies)
165	Ayurvedic Medicinal Plants Identification: A comparative study on feature extraction methods	Ahila Priyadharshini (Mepco Schlenk Engineering College)*
255	Bengali Place Name Recognition - Comparative Analysis using Different CNN Architectures	Prashant Kumar Prasad (RCC Institute of Information Technology)*; Pamela Banerjee (RCC Institute of Information Technology); Sukalpa Chanda (Østfold University College); Umapada Pal (Indian Statistical Institute, Kolkata)
262	Evaluation of Deep Learning Networks for Keratoconus Detection using Corneal Topographic Images	Savita R. Gandhi (Gujarat University)*; Jigna Satani (Gujarat University)
301	FGrade: A large volume dataset for grading tomato freshness quality	Sikha Das (Kalyani Government Engineering College)*; Samarjit Kar (National Institute of Technology Durgapur); Arif Ahmed Sekh (UiT The Arctic University of Norway)