

NCVPRIPG 2019 Program Schedule

7th National Conference on Computer Vision, Patern Recognition, Image Processing and Graphics
22nd -24th December 2019

Venues:	BTA: Biotechnology Auditorium	MBAS: MBA Seminar Hall		BTS: Biotechnology Seminar Hall
Day 0		Date: 22/12/2019		Sunday
Time	Schedule	Event	Title	Speaker
8:00-9:00		Registration		
9:00-11:30	Parallel Sessions	Tutorial 1 @ BTA	Mathamatics for Deep Learning	Debdoot Sheet, Swanand Khare, Abir Das
		Tutorial 2 @ MBAS	On-Device Depth Estimation for Visual Scene Understanding	Narasimha Pai, Anurag Jain, Pankaj K Bajpai
		Tutorial 3 @ BTS	Deep Learning for Satellite Imaging	Biplab Banerjee, Saurabh Kumar
11:30-12:00		Tea Break @ Food Court		
12:00-1:00	Parallel Sessions	Tutorial 1 @ BTA	Mathamatics for Deep Learning	Debdoot Sheet, Swanand Khare, Abir Das
		Tutorial 2 @ MBAS	On-Device Depth Estimation for Visual Scene Understanding	Narasimha Pai, Anurag Jain, Pankaj K Bajpai
		Tutorial 4 @ BTS	Deep Learning with Pytorch	Sherin Thomas, Surgan Jadia
1:00-2:00		Lunch Break @ Food Court		
2:00-3:30	Parallel Sessions	Tutorial 1 @ BTA	Mathamatics for Deep Learning	Debdoot Sheet, Swanand Khare, Abir Das
		Tutorial 2 @ MBAS	On-Device Depth Estimation for Visual Scene Understanding	Narasimha Pai, Anurag Jain, Pankaj K Bajpai
		Tutorial 4 @ BTS	Deep Learning with Pytorch	Sherin Thomas, Surgan Jadia
3:30-4:00		Tea Break @ Food Court		
4:00-4:30		Inauguration @ BTA		
4:30-5:30		Keynote 1 @ BTA	Learning to Generate 3D Structures	Siddhartha Chaudhuri
5:30-6:30		Keynote 2 @ BTA	Computer Vision and Deep Learning - A Marriage of Neuroscience and Machine Learning	Ardhendu Behera
6:30-8:00		IDD Event @ BTA	India Driving Dataset Challenge	
8:00-9:00		Welcome Dinner		

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Day 1		Date: 23/12/2019		Monday			
Oral 1 : Vision and Geometry (V&G) @ BTA							
Sl . No	Time	Schedule	Paper ID	Title	Authors		
1	8:30-9:30	8:30-8:37	38	Fast Stereo Depth Estimation in Smartphone Devices with Narrow Baseline	Das, Saikat K; Bajpai, Pankaj; Sarkar, Rituparna		
2		8:37-8:44	124	Single Storage Semi-Global Matching for Real Time Depth Processing	Sawant, Prathmesh; Temburu, Yashwant Kumar; Datar, Mandar; Ahmed, Imran; Shrinivas, Vinayak; Patkar, Sachin		
3		8:44-8:51	156	SynCGAN: Using learnable class specific priors to generate synthetic data for improving classifier performance on cytological images	Dey, Soumyajoti, Das, Soham; Ghosh, Swarnendu, Mitra, Shyamali, Chakrabarty, Sukanta , Das, Nibaran		
		8:51-8:55		Question and Answers			
4		8:55-9:02	192	Fish-eye image based cross traffic alert system	Bandyopadhyay, Madhurima; Pathayapurakkal, Anoop		
5		9:02-9:09	203	Evidence Based Image Selection for 3D Reconstruction	Yadavannavar, Smita C, Ramesh Ashok Tabib, Ujwala Patil, Uma Mudenagudi		
6		9:09-9:16	204	Domain Decomposition Based Preconditioned Solver for Bundle Adjustment	Katyana, Siddhant; Das, Shrutimoy; Kumar, Pawan		
	9:16-9:20		Question and Answers				
	9:30-10:30		Plenary @ BTA	Recognizing Human Actions in Videos	Andrew Zisserman		
	10:30-11:00		Tea Break @ Food Court				
Oral 2 : Learning and Vision (LV) @ BTA							
Sl . No	Time	Schedule	Paper ID	Title	Authors		
1	11:00 - 12:15	11:00-11:07	17	Deep dictionary learning for inpainting	Seemakurthy, Karthik; Gubbi, Jayavardhana; NK, Sandeep; Varghese, Ashley; Deshpande, Shailesh S; P, Balamuralidhar; Majumdar, Anghshul		
2		11:07-11:14	25	A Robust Pose Transformational GAN for Pose Guided Person Image Synthesis	Karmakar, Arnab; Mishra, Deepak		
3		11:14-11:21	83	Structure Preserving Image Inpainting using Edge Priors with Contextual Attention	Singh, Ashish Kumar; Agrawal, Praveen; Dhiman, Ankit; Raj, Rishav; Bajpai, Pankaj; Harbhajanka, Yash		
		11:21-11:25		Question and Answers			
4		11:25-11:32	96	Exploring Temporal Differences in 3D Convolutional Neural Networks	Kanojia, Gagan; Kumawat, Sudhakar; Raman, Shanmuganathan		
5		11:32-11:39	106	PoshakNet: Framework for matching dresses from real life photos using GAN and Siamese Network	Khaund, Abhigyan; Thapar, Daksh; Nigam, Aditya		
6		11:39-11:46	111	Unsupervised Domain Adaptation for Remote Sensing Images Using Metric Learning and Correlation Alignment	Mahapatra, Aniruddha; Banerjee, Biplab		
		11:46-11:50		Question and Answers			
7		11:50-11:57	175	Computationally Efficient Super-Resolution Approach for Real-World Images	Chudasama, Vishal; Prajapati, Kalpesh J; Upla, Kishor		
8		11:57-12:04	188	Accurate Damage Dimension Estimation in AI driven Vehicle Inspection System	Barari, Adrita; Abhilash, NVS; Jain, Payanshi; Sati, Ankit; Datta, Karthik; Jain, Chirag		
9	12:04-12:11	206	A Deep Learning based Framework for Distracted Driver Detection	Maurya, Swadesh; Choudhary, Ayesha			
	12:11-12:15		Question and Answers				
Session: Spotlight 1 @ BTA							
Sl . No	Time	Schedule	Paper ID	Title	Authors		
1	12:15-1:00	12:15-12:18	18	RECAL: Reuse of Established CNN classifier Apropos unsupervised Learning paradigm	Saha, Jayasree		
2		12:18-12:21	20	Pose Estimation of UAVs using Stereo vision	Sahu, Samvrant; M.S., Harsha Simha; Mishra, Deepak		
3		12:21-12:24	29	Rejection-Cascade of Gaussians: Real-time adaptive background subtraction framework	Kiran, Ravi; Das, Arindam; Yogamani, Senthil		
4		12:24-12:27	34	U-RME: Underwater Refined Motion Estimation in hazy, cluttered and dynamic environments	Gupta, Shipi; Mukherjee, Prerana; Chaudhury, Santanu; Lall, Brejesh		
5		12:27-12:30	40	Emphasizing Similar Feature Representations to Defend against Adversarial Attacks	S, Balasubramanian; Pandey, Akhilesh; Gera, Darshan		
6		12:30-12:33	45	Hybrid Resection-Intersection method for real-time Bundle Adjustment on mobile devices	Singh, Ashish Kumar; Peddigari, Venkat; Srinivasan, Karthik		
7		12:33-12:36	53	DocDescriptor : Digits + Alphabets + Math Symbols - A complete OCR for handwritten documents	AGGARWAL, RIDHI; Harit, Gaurav; Jain, Hiteshi; Tiwari, Anil K		
8		12:36-12:39	60	Non-contextual Long-Term Person Re-ID Under Sudden Illumination Conditions	Balasubramanian, Yogameena; Kandasamy, Menaka; S, Saravana Perumaal		
9		12:39-12:42	69	Artificially Intelligent Game Framework Based on Facial Expression Recognition	Patidar, Itisha; Modh, Karan Sanjay; Chattopadhyay, Chiranjoy		
10		12:42-12:45	76	A Performance Evaluation of Loss Functions for Deep Face Recognition	Srivastava, Yash; Murali, Vaishnav; Dubey, Shiv Ram*		

11	12:45-12:48	92	iSaIGAN - Improved Saliency GAN	S, Balasubramanian; Kelam, Goutam	
12	12:48-12:51	125	Putting Jewellery and Accessories on a 3D FaceModel	Singh, Parth; Jarupla, Roshan; Kalra, Prem	
13	12:51-12:54	128	Motion-constrained Generative Adversarial Network for Anomaly Detection	Edison, Anitha ; C.V., Jiji	
14	12:54-12:57	155	Performance analysis and Optimization of Serialization techniques for Deep Neural Networks	Parashar, Akshay	
15	12:57-1:00	168	Learning To Generate Atmospheric Turbulence	Rai, Shyam Nandan; Jawahar, C.V.	
	1:00-2:00		Lunch Break @ Food Court		
	2:00-3:00		Keynote 3 @ BTA Subspace Learning from Bad Data: Phaseless PCA and Dynamic Robust PCA	Namrata Vaswani	
	3:00-4:30		Poster Session 1 @ C-lite Ground Floor		
			Tea Break @ Food Court		
S.No	Time	Schedule	Paper ID	Vision India (VI) @ BTA	Authors
1	4:30-5:30	4:30-4:37	VI01	UM-Adapt: Unsupervised Multi-task Adaptation using Adversarial Cross-task Distillation (ICCV 2019)	Jogendra Nath Kundu, Nishank L.,R. Venkatesh Babu
2		4:37-4:44	VI02	DeGAN : Data-enriching GAN for retrieving Representative Samples from a Trained Classifier (AAAI 2020)	Sravanti Addepalli., Gaurav N., Anirban C., R. Venkatesh Babu
3		4:44-4:51	VI05	Towards Increased Accessibility of Meme Images with the Help of Rich Face Emotion Captions (ACM MM 2019)	Prajwal K R, C.V. Jawahar, Ponnurangam Kumaraguru
4		4:51-4:58	VI06	Bringing Alive Blurred Moments (CVPR 2019)	Kuldeep Purohit, Anshul B. Shah, A.N. Rajagopalan
5		4:58-5:05	VI10	Kinematic-Structure-Preserved Representation for Unsupervised 3D Human Pose Estimation (AAAI 2020)	Jogendra Nath Kundu, Siddharth Seth, Rahul M V, Mugalodi Rakesh, R. Venkatesh Babu, Anirban Chakraborty
6		5:05-5:12	VI13	Zero-Shot Task Transfer (CVPR 2019)	Arghya Pal, Vineeth N Balasubramanian
7		5:12-5:19	VI18	Almost Unsupervised Learning for Dense Crowd Counting (AAAI 2019)	Deepak Babu Sam, Neeraj S., Himanshu M., R. Venkatesh Babu
8		5:19-5:26	VI21	HetConv: Beyond Homogeneous Convolution Kernels for Deep CNNs (IJCV and CVPR 2019)	Pravendra Singh, Vinay Kumar Verma, Piyush Rai, Vinay P. Nambodiri
	5:30-6:30		Panel Discussion: Start-up EcoSystem @ BTA		
	6:30-7:00		IUPRAI AGM Meeting @ BTA		
	7:00-9:30		Banquet Dinner	Cultural Program and Banquet Dinner	

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Day 2		Date: 24/12/2019			
		Tuesday			
Oral 3 : Image Processing and Document Analysis (IP&DA) @ BTA					
Sl . No	Time	Schedule	Paper ID	Title	Authors
1	8:30-9:30	8:30-8:37	5	Document Image Binarization using U-Net	Kotecha, Dhara P; Joshi, Manjunath V.
2		8:37-8:44	8	Towards Faster Offline Handwriting Recognition using Temporal Convolution Networks.	Sharma, Annapurna; Ambati, Rahul; J, Dinesh Babu
3		8:44-8:51	81	Recognition of Gurmukhi signboard image classes based on static and dynamic feature sets.	Bains, Jasleen Kaur; Sran, Sukhdeep; Sharma, Anuj
		8:51-8:55		Question and Answers	
4		8:55-9:02	97	A Row based Similarity Measure for Tabular Structure Detection from Document Images.	Dey, Soumyadeep
5		9:02-9:09	131	Segmentation and enhancement of mammograms using Gradient weight map and de-correlation stretch.	DIVYASHREE, B V; G, Prof. Hemantha Kumar
6		9:09-9:16	150	LR-HyClassify: A low rank based framework for classification of degraded hyperspectral images.	Sarkar, Sourish; Sahay, Rajiv
	9:16-9:20		Question and Answers		
	9:30-10:30		Keynote 4 @ BTA	Scalable Computer Vision	Amit Roy Chowdhury
	10:30-11:00		Tea Break @ Food Court		
Oral 4 : Detection and Recognition (D&R) @ BTA					
Sl . No	Time	Schedule	Paper ID	Title	Authors
1	11:00 - 12:15	11:00-11:07	54	Neighborhood Projection Embedding Based Image Tampering Detection and Localization	Diwan, Anjali; Koringa, Purvi A; Roy, Anil; Mitra, Suman
2		11:07-11:14	67	DeepPFCN: Deep Parallel Feature Consensus Network for Person Re-Identification	Singh, Shubham Kumar; Miyapuram, Krishna P; Raman, Shanmuganathan
3		11:14-11:21	117	Motion Classification in Bharatanatyam Dance	Bhuyan, Himadri BGS; Das, Partha Pratim; Roy, Mousam
		11:21-11:25		Question and Answers	
4		11:25-11:32	127	CS-ONPP : Class Similarity based ONPP for the Modular Facial Expression Recognition	SUJATA, Ms; Koringa, Purvi A; Mitra, Suman
5		11:32-11:39			
6		11:39-11:46	147	Compressive sensing based privacy for fall detection	Gupta, Ronak; Anand, Prashant; Chaudhary, Santanu; Lall, Brejesh; Singh, Sanjay
		11:46-11:50		Question and Answers	
7		11:50-11:57	161	Indian plant recognition in the wild	Muthireddy, Vamsidhar; Jawahar, C.V.
8		11:57-12:04	187	Semantic Segmentation Datasets for Resource Constrained Training	Mishra, Asnutosh; Kauri, Tarun; Yarram, Sudhir; Varma, Gishri; Subramanian, Anbumani; Chandraker, Manmohan; Jawahar, C.V.
9	12:04-12:11	200	Dear Commissioner, please fix these: A scalable system for inspecting road infrastructure	Reddy, Ranjith; Modhugu, Raghava; Jawahar, C.V.	
	12:11-12:15		Question and Answers		
Session: Spotlight 2 @ BTA					
Sl . No	Time	Schedule	Paper ID	Title	Authors
1	12:15-1:00	12:15-12:18	39	Automatic Text Localization in Scene Images: A Transfer Learning Based Approach	Ghosh, Mridul; Saha Roy, Sayan; Mukherjee, Himadri; Obaidullah, Sk Md; Santosh, K.C.; Roy, Kaushik
2		12:18-12:21	51	Automated Detection of Mine Water Bodies using Landsat 8 OLI/TIRS in Jharia	Mukeerjee, Jit; Mukherjee, Jayanta; Chakravarty, Debashish
3		12:21-12:24	62	Deep learning-based Bangla isolated character recognition from online and offline data	Mukherjee, Himadri; Sen, Shibaprasad; Dhar, Ankita; Obaidullah, Sk Md; Roy, Kaushik
4		12:24-12:27	71	Super Resolution Land Cover Mapping using Deep Multi Scale Residual Dense Network	Vinothini, Synthiya; B, Dr.Sathyabama; Selva, Nirmal; Kumar, Naveen
5		12:27-12:30	84	Fundus Image Quality Assessment through Analysis of Illumination, Naturalness, and Structure Level	perumal, vasuki; balamurugan, kanimozhi J
6		12:30-12:33	93	CaReNet: CapsNet based Regression Network	S, Balasubramanian; B, Abhinay; Sharma, Basanta; Gera, Darshan; Khanna, Srikanth
7		12:33-12:36	118	Detector-SegMentor Network for Skin Lesion Localization and Segmentation	Saini, Shreshth; Gupta, Divij; Tiwari, Anil K
8		12:36-12:39	136	Choroid disease classification using Convolutional Neural Network	George, Neetha; C.V., Jiji
9		12:39-12:42	191	Hyper Vision Net: Kidney Tumor Segmentation Using Coordinate Convolutional Layer and Attention Unit	Beham, M Parisa; Sabarinathan, D; Mansoor, Md
10		12:42-12:45	201	Texture classification by Local Rajan Transform based descriptor	K, priya; Mansoor, Md; B, Dr.Sathyabama; R, Neelavathy

11	12:45-12:48	143	Analyzing Image Classification via EEG		Mishra, Rahul; Bhavsar, Arnav
12	12:48-12:51	148	Relocalization of Camera in a 3D Map on Memory Restricted Devices		Hegde, Deepthi B; Hegde, Dikshit; Tabib, Ramesh ; Mudenagudi, Uma
13	12:51-12:54	178	Scene Understanding in Night-Time using SSAN Dataset		R, Anandha Murugan; B, Dr.Sathyabama; S, Sam Joshuva Paul Jeevan; Kiran, Surya; krishna, Nighil
14	12:54-12:57	180	Deep learn Bananas: a Transfer Learning for Banana Variety Classification		Marimuthu, Senthilarasi; Mansoor, Md; M, Maheesa; Rajamanickam, Sivaranjani R
15	12:57-1:00	181	A Framework for Lane Prediction based on Vehicle Detection and Tracking		Gupta, Any; Choudhary, Ayesha
	1:00-2:00		Lunch Break @ Food Court		
	2:00-3:00		Keynote 5 @ BTA	A Finegrained Perspective onto Object Interactions	Dima Daman
	3:00-4:30		Poster Session 2 @ C-lite Ground Floor		Oral 3, Oral 4, Spotlight 2, Vision India, Doctoral Symposium (50 Posters)
			Poster Session 3: Doctoral Symposium @ C-lite Ground Floor		
	3:00-4:30		Tea Break @ Food Court		
			Session: Vision India @ BTA		
S.No	Time	Schedule	Paper ID	Title	Authors
1	4:30-5:30	4:30-4:37	VI03	FDA: Feature Disruptive Adversarial Attack (ICCV 2019)	Aditya G., Vivek B.S., R. Venkatesh Babu
2		4:37-4:44	VI04	Towards Automatic Face-to-Face Translation (ACM MM 2019)	Prajwal K R, Rudrabha Mukhopadhyay, Jerin Philip, Abhishek Jha, Vinay Namboodiri, C.V. Jawahar
3		4:44-4:51	VI08	Attending to Discriminative Certainty for Domain Adaptation (CVPR 2019)	Vinod K Kurmi, Shanu Kumar, Vinay P Namboodiri
4		4:51-4:58	VI09	Zero-Shot Knowledge Distillation in Deep Networks (ICML 2019)	Gaurav Kumar Nayak, Konda Reddy Mopuri, Vaisakh Shaj, R. Venkatesh Babu, Anirban Chakraborty
5		4:58-5:05	VI12	Neural Network Attributions: A Causal Perspective (ICML 2019)	Aditya Chattopadhyay, Piyushi Manupriya, Anirban Sarkar, Vineeth N Balasubramanian
6		5:05-5:12	VI17	LP-3DCNN: Unveiling Local Phase in 3D Convolutional Neural Networks (CVPR 2019)	Sudhakar Kumawat, Shanmuganathan Raman
7		5:12-5:19	VI20	Residual Dense Network for Pan-Sharpeneing Satellite data (IEEE Sensor Journal 2019)	D. Synthiya Vlnothini, B. Sathya Bama
8		5:19-5:26	VI23	Towards Photorealistic Reconstruction of Highly Multiplexed Lensless Images (ICCV 2019)	Salman Siddique Khan, Adarsh V.R., Vivek Boominathan, Jasper Tan, Ashok Veeraraghavan, Kaushik Mitra
	5:30-6:30		Industry Talks @ BTA		Mathworks, KPIT, GE Health Care
	6:30-7:00		Valedictory @ BTA		