

IMVIP 2020 Schedule of talks

Monday 31st August

10:00 a.m.

KEYNOTE: Davide Scaramuzza

Learning Vision-based, Agile Drone Flight:
from Frames to Event Cameras

Oral Presentations

11:00 a.m.	A Study on Visual Perception of Light Field Content	Ailbhe Gill, Emin Zerman, Cagri Ozcinar and Aljosa Smolic
11:20 a.m.	A Study of Efficient Light Field Subsampling and Reconstruction Strategies	Yang Chen, Martin Alain and Aljosa Smolic
11:40 a.m.	Detecting predation interaction using pretrained CNNs	Gabriel Palma, Charles Markham and Rafael Moral
12:00 p.m.	Extracting Pasture Phenotype and Biomass Percentages using Weakly Supervised Multi-target Deep Learning with Small Data-set	Badri Narayanan, Mohamed Saadeldin, Paul Albert, Kevin McGuinness and Brian Mac Namee

Short Oral Presentations

12:30 p.m. 5 mins each	Defect Exclusive Custom Vocabulary for Classification	Terence Sweeney, Sonya Coleman and Dermot Kerr
	Keypoint Autoencoders: Learning Interest Points of Semantics	Ruoxi Shi, Zhengrong Xue and Xinyang Li
	Projective Texture Mapping on Reconstructed Scenes	William Clifford and Charles Markham
	Rb-PaStaNet: A Few-Shot Human-Object Interaction Detection Based on Rules and Part States	Zichen Zhu, Shenyu Zhang and Qingquan Bao

1:00 pm - 2:00 pm

Informal one-to-one chats authors of the short oral presentations

Tuesday 1st September

10:00 a.m.

KEYNOTE: Henning Müller

Connecting visual information with semantics for learning from weak labels in histopathology images

Oral Presentations

11:00 a.m.	Sub-Pixel Back-Projection Network For Lightweight Single Image Super-Resolution	Supratik Banerjee, Cagri Ozcinar, Aakanksha Rana, Aljosa Smolic and Michael Manzke
11:20 a.m.	Tagged-ICP: An Iterative Closest Point Algorithm with Metadata Knowledge for Improved Matching of 3D Protein Structures	Peter Ankomah, Peter Vangorp, Yonghuai Liu and Ardhendu Behera
11:40 a.m.	A Comparative Analysis of a State-of-the-Art CNN versus a Bespoke Capsule Network for Cell Image Classification	Ruairi O'Reilly and Liam Murphy
12:00 p.m.	Consistency of Scale Covariance in Internal Representations of CNNs	Vincent Andrearczyk, Mara Graziani, Henning Müller and Adrien Depeursinge

Short Oral Presentations

12:30 p.m. 5 mins each	Oropharynx Detection in PET-CT for Tumor Segmentation	Vincent Andrearczyk, Valentin Oreiller and Adrien Depeursinge
	An Ensemble-based Approach to the Detection of COVID-19 Induced Pneumonia using X-Ray Imagery	Chand Sheikh, Farshad Ghassemi Toosi and Ruairi O'Reilly
	Multi-Person Full Body Pose Estimation	Haoyi Zhu, Cheng Jie and Shaofei Jiang
	Candidate Subspace Screening for Linear Subspace Clustering with Energy Minimization	Katsuya Hotta, Haoran Xie and Chao Zhang

1:00 pm - 2:00 pm

Informal one-to-one chats authors of the short oral presentations

Wednesday 2nd September

10:00 a.m.

KEYNOTE: Benazouz Bradai

Perception, localization and mapping
for Autonomous Driving

Oral Presentations

11:00 a.m.	A 2.5D Vehicle Odometry Estimation for Vision Applications	Paul Moran, Jonathan Horgan and Ciaran Eising
11:20 a.m.	CNN based Color and Thermal Image Fusion for Object Detection in Automated Driving	Ravi Yadav, Ahmed Samir, Hazem Rashed, Senthil Yogamani and Rozenn Dahyot
11:40 a.m.	Object Polygonization in Traffic Scenes using Small Eigenvalue Analysis	Naresh Y G, Venkatesh G M, Noel E. O'Connor and Suzanne Little
12:00 p.m.	Patch based Colour Transfer using SIFT Flow	Hana Alghamdi and Rozenn Dahyot

Short Oral Presentations

12:30 p.m. 5 mins each	Efficient Visual Place Retrieval System Using Google Street View	Reem Aljuaidi and Rozenn Dahyot
	Utilising Domain Transformations in Multi-Camera Re-Identification Scenarios beyond Data Augmentation	Glen Brown, Jesus Martinez-Del-Rincon and Paul Miller
	Automatic Recognition of Repetitive Hand Movements	Fiona Marshall, Shuai Zhang and Bryan Scotney
	Sensor tilt via conic sections	Brian O'Sullivan and Piotr Stec

1:00 pm - 2:00 pm

Informal one-to-one chats authors of the short oral presentations