

Human and Computer Models Workshop

In-person | Wednesday 15th May 2024 | University of Surrey

Leggett Building, Manor Park, Daphne Jackson Rd, Guildford GU2 7WG

Programme

9:30 – 10:00	Registration Tea and Coffee		
10:00 – 11:00	Invited Speaker: "A Systems View of Perceiving Biological Motion: from Features to Brain Circuits" Professor Frank Pollick School of Psychology and Neuroscience, University of Glasgow Abstract: This talk will present research results from our lab that have explored the perception of human movement – also known as biological motion perception. In the first part of the talk, I will discuss movement features and how they contribute to the categorisation of different movement styles. Next, I will examine the different frameworks that have been proposed for the neural processing of movement and how these inform evaluation of our research into watching dance. Finally, I will address how individual differences might impact the perception of human movement by reviewing our studies on autism and the effect of CCTV-operator experience in judging harmful intent. Throughout the talk I will highlight ways in which quantitative measures of human movement have been related to perception and underlying brain activity.		
11:00 – 12:20	Oral Presentation Session		
	"The effects of depth of field on attention whilst exploring a virtual environment". S. Durant, D. Gulhan, H. Kaur Suri, K. Vekariah, J. Haider-Smith	Szonya Durant	
	"Spatial Cognition from Egocentric Video: Out of Sight, Not Out of Mind". T. Perrett, D. Damen, A. Kanazawa, S. Goel, C. Plizzari	Toby Perrett	
	"On the incidental and deliberate visual processing of communicative interactions". A. Atkinson, Q. Vuong	Anthony Atkinson	
	"Looking at people in videos: Evidence from human eye movements". T. Foulsham	Tom Foulsham	

12:20 – 12:30	Poster announcements		
12.20	"StableTalk: Advancing Audio-to-Talking Face	Fatemeh Nazarieh	
	Generation with Stable Diffusion and Vision	T dtorrion (dzarion	
	Transformer".		
	F. Nazarieh		
	"Advancements in 3D Plant Phenotyping: Precise Part	Reena Reena	
	Segmentation and Trait Measurement Through Video-	Trocha recha	
	Derived Point Clouds".		
	R. Reena		
	"Driving Through Graphs: A Networked Perspective on	Aditya	
	Scene Representation".	Humnabadkar	
	A. Humnabadkar	Tidiiiidbaakai	
12:30	Sandwich/buffet lunch in the venue		
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13:00	Poster Session 1:		
	Szonya Durant, Toby Perrett, Anthony Atkinson, Tom		
12:20	Foulsham, Fatemen Nazarieh		
13:30	Poster Session 2:		
	Reena Reena, Aditya Humnabadkar, Arindam Sikdar,		
14:00 – 15:00	Quoc Vuong, Filip Rybansky		
	"Multimodal Learning in Video Moment Retrieval"		
	Professor Shaogang Gong Queen Mary University of London, Queen Mary Computer Vision Laboratory		
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	Abetract		
	Abstract: Deep learning has revolutionised AI machine learning techniques in compu		
	vision over the past decade largely due to the availability of		
	data with exhaustive labelling and cheap computing power		
	GPUs. However, privacy concerns from data protection as		
	concerns on energy consumption together with an increase		
	decentralised user-ownership of localised unlabelled data pose fundamental challenges to the established wisdom of deep learning on centralised big data from scratch with exhaustive labelling available for model training. In this talk,		
	I will present challenges and recent progress on exploring		
	language models for self-supervised learning of fine-grained video-language dynamic details without fine-grained labelling in model training for video		
	moment retrieval.	o .	
15:00 – 15:30	Afternoon coffee		
15:30 – 17:00	Oral Presentation session		
10.00 17.00	"Scale-invariant batch-adaptive residual learning for	Arindam Sikdar	
	person re-identification"	am omaai	
	A. Sikdar, A. S. Chowdhury		
	"Measuring temporal adaptation in videos of speech"	Quoc Vuong	
	Q. Vuong, M. Laing, V. Bansal, A. Rees	2000 700118	
	"Semantic consistency in identifying human actions"	Filip Rybansky	
	F. Rybansky, S. Rahmani, A. Gilbert, F. Guerin, Q. Vuong	. Inprigoditory	
	"Movie-watching reveals that human extrastriate cortex	Nicholas Hedger	
	is tiled with somatosensory homunculi"	1 TOTIO COS TITO COS CO	
	N. Hedger, T. Knapen		
17:00	Close	<u> </u>	
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