Measuring Behavior 2022
Overview of schedule

For more details, click on the links.

All scientific presentations 15 mins incl. questions

Keynotes, demos, tutorials, 30 mins

All times in CET (GMT+2)

For last minute changes, check the website

Wednesday 18th May	Room 1	Room 2	Room 3
10:55-11:00	**Opening:** Andrew Spink		
11:00 - 12:00	**New developments in analysis and statistics (1)**	**Measuring behaviour in sports and exercise**	
11:00-11:15	Collaborative learning interactions among university students in face-to-face and online meetings during the COVID-19 pandemic: An observational study. H.Q. Chim.	Measuring Behavior in golf - at PING. Jonathan Shepherd, Loughborough University, UK.	
11:15-11:30	The Effects of Stimulus Duration and Group Size on Wearable Physiological Synchrony. Ivo Stuldreher.	Measuring Performance and Infringements in elite race-walkers: the IART system. Teodorico Caporaso.	
11:30-11:45	Start Making Sense: Predicting confidence in virtual human interactions using biometric signals. Sara Dalzel-Job.	Chainring Eccentricity Affects Pedal Force Profiles and Musculoskeletal Responses During Cycling. Amy Robinson.	
11:45-12:00		Assessing the likelihood of serve success using nearest neighbourhood methods. Andy Hext.	
12:35/13:00 - 14:00	**New developments in analysis and statistics (2)**	**Automatic behavior recognition in rodents: how new technology moves the field forward (1)**	
12:35-12:45		Introduction. Lucas Noldus	
12:45-13:00		uBAM: Unsupervised Behavior Analysis and Magnification using Deep Learning. Björn Ommer.	**Using Drones to Transform the Measurement of Behaviour**
13:00-13:15	Improving the Annotation Efficiency for Animal Activity Recognition using Active Learning. Suzanne Spink.	Self-supervised learning as a gateway to reveal underlying dynamics in animal behavior. Kevin Luxem.	Use of Unmanned Aerial Vehicles (UAVs) for Applied Animal Ethology. John Church.
13:15-13:30	Data Synchronisation and Processing in Multimodal Research. Tenzing Dolmans.	Deep learning systems for automated rodent behavior recognition systems suffer from observer bias: Time to raise the bar. Elsbeth van Dam.	Choosing the Right Drone for Animal Research. Spencer Serin.
13:30-13:45		Learning to embed lifetime social behavior from interaction dynamics. Benjamin Wild.	Use of Aerial Thermal Imaging to Compare Assess Surface Temperatures Between Light and Dark Variants of Black Angus x Canadian Speckle Park Cattle. Joanna Urbana.
13:45-14:00	Posters	Live Mouse Tracker 2022 : new animals, new features, new limits. Fabrice de Chaumont.	Using UAVs to measure behavioral indicators of heat stress in cattle. John Church.
14:00-14:15		Break	Baboons on the Move: Enhancing Understanding of Collective Decision Making through Automated Motion Detection from Aerial Drone Footage. Christpher Crutchfield.
14:15 - 15:15		**Automatic behavior recognition in rodents: how new technology moves the field forward (2)**	
14:15-14:30		Multi-animal pose estimation, identification, tracking and action segmentation with DeepLabCut. Alexander Mathis.	Posters
14:30-14:45		Measuring Social Behavior from Video and Trajectory Data of Interacting Mice. Jennifer Sun.	

Time	Room 1	Room 2	Room 3
14:45-15:00		Deep learning approaches to study rodent behavior. Heike Schauerte & Florian Montel.	
15:00-15:15		Discussion	
15:15 - 16:15			
16:20: 17:00		**Keynote: Latest techniques for measuring learning and memory. Prof. Chris de Zeeuw**	

Thursday 19th May	**Room 1**	**Room 2**	**Room 3**
11:00 - 12:00	**Methods and tools for measuring emotions**	**Addressing the reproducibility problem in research: Challenges and future prospects**	
11:00-11:15	A Tool for Measuring Intuition Using Audio Synthesizer Tasks. Martin Tomasik.	Assessing the scientific quality of online interventions for psychological well-being: Are we doing good science in times of the pandemic? Cristina Rodríguez-Prada.	
11:15-11:30	Using EquiFACS annotation of video recordings "in the wild" to describe facial expressions of emotionally stressed horses. Johan Lundblad.	The EQIPD Quality System: a unique tool to improve the robustness of preclinical drug discovery research data. Björn Gerlach.	
11:30-11:45	How mask is mask for Parkinson's Disease? Fan Xu.	How to replicate behavior in the lab: lessons learned from 50 users a year. Lior Bikovski.	
11:45-12:00	Ethnicity & FaceReader 9 – A Fair Face Case Study. Jason Rogers.		
12:00-12:15		Can we replicate our own results? Richard Brown.	
13:00 - 14:00	**Tutorials**	**Methods in food and eating studies**	
13:00-13:15	Building A Behavioral Core. Jason Rogers.		
13:15-13:30		Conscious and unconscious emotional response evoked by food appearance in children: a study based on automatic facial expression analysis and skin conductance response. Noelia da Quinta.	
13:30-13:45	Ugo Basile tutorial: Mastering the temperature-dependent behavior in mice studies with the thermal gradient ring	The Effect of Virtual Reality on Eating Behaviours and Hunger: A Randomized Crossover Study. Billy Langlet.	
13:45-14:00		An Attempt to Assess the Effects of Social Demand using Explicit and Implicit Measures of Food Experience. Priya Sabu.	
14:00-14:15		How Diet Composition Correlates with Cognitive Functioning - Application of Principal Component Analysis (PCA) to Nutritional Data. Wanda Zarzycka.	
14:15 - 15:00	**Demos**	**Workshop: Measurement Tools for Food Consumer Science (14:15-16:15)**	
14:15-14:30			
14:30-14:45	Commercial presentation: EthoVision XT 17. Albert Willemsen.		
14:45-15:00	Demo: Physical activity observation smartsensor prototype. Hans Hõrak		
15:15 - 15:45	**New tests in pre-clinical neuroscience**	Consumer's background - Harmonizing Measures Emerging measures COMFOCUS toolbox Ethics - challenges and RRI General discussion	
15:13-15:30	See what you have been missing: what locomotor activity can teach us in terms of refinement, reduction and replicability 'round the CLOCK (24/7) animal studies. Stefano Gaburro.		
15:30-15:45	Beyond locomotion: stimulus selectivity of sensory evoked behaviours unfolds in a higher dimensional space. Riccardo Storchi.		

15:45-16:00	Tutorial: Tips and Tricks in EthoVision XT: Insights into the Unknowns. Matt Feltenstein.		
16:00-16:15			
16:20: 17:00	-	**Keynote: From food perception to behavior. Prof. Liesbeth Zandstra.**	

Friday 20th May	**Room 1**	**Room 2**	**Room 3**
11:00 - 12:00	**Sensors & multi-modal measurments**	**Measuring the behavior of farm animals**	**Psychology and economics**
11:00-11:15	Understanding the effects of sleep deprivation and acute social stress on cognitive performance using a comprehensive approach. Charelle Bottenheft.		Measuring Behavior in Counseling Clinic Waiting Areas. Lauralee Wikkerink.
11:15-11:30	Quantifying Interactions between Physiological Signals to Identify Exposure to Different Chemicals. Anne-Marie Brouwer.	Early movements within a commercial aviary are related to later health. Camille Montalcini.	Measuring Behavior of Low-Vision Populations Using Virtual Reality. Lauren Ashley Hughes.
11:30-11:45	Pupil Diameter to estimate Sense of Embodiment. Sara Falcone.	Farmers risk perception and agricultural productivity: evidence from field experiments. Subir Sen.	
11:45-12:00	Recognition of Basic Gesture Components using Body Attached Bending Sensors. Dominik Krumm.	Using Cow Location Data For Practical On-farm Applications – A Pilot Study. Lenny van Erp.	
13:00 - 14:00	**Sensors & multi-modal measurments**	**Measuring the behavior of farm animals**	
13:00-13:15	A Distance–Based Classification Method to Assess Frontal Behavior from Human Behavioral Sensing. Bénédicte Batrancourt.	Using Infrared Thermographic Images for Early Detection of Clinical Lameness in Dairy Cattle. Gerben Hofstra.	
13:15-13:30	Multi-modal assessment of the behavioral markers of apathy under real-life context - Towards a telemonitoring instrument of patient-caregiver couples' psychological health. Godefroy Valérie	Turkey Gait Analysis: Predicting Expert Score With Machine Learning Based on IMU Data. Jan Erik Doornweerd.	
13:30-13:45	Optimal subgroup identification in a P300-based collaborative Brain-Computer Interface. Luigi Bianchi.	What do pregnant mares do at night? Activity budgets in pregnant mares before foaling – a pilot study. Linnea Pålsson.	
13:45-14:00			
14:15 - 15:00	**Sensors & multi-modal measurments**		
14:15-14:30	Setup for Multimodal Human Stress Dataset Collection. Bhargavi Mahesh.	Commercial presentation:The increasing research demand in behavioral studies by Ugo Basile	
14:30-14:45	Assessing disinhibition behaviour in behavioural variant frontotemporal dementia patients using ecological, cognitive and anatomical tasks. Delphine Tanguy.		
14:45-15:00	Feasibility study of magnetoencephalographic inter-subject synchrony during music listening. Nattapong Thammasan.		
15:00 - 15:15	Identifying Canine Posture from a Wearable Sensor: Application of Cross-Disciplinary Methods to Companion Animal Monitoring. Jack O'Sullivan.		
15:00 - 16:15		**Animal welfare**	
15:00-15:15		Designing tasks to compare behaviours in a range of different species: A case study in whisker movement analysis. Robyn Grant.	
15:15 - 16:15	**Automotive human factors**		

15:15-15:30	Do Car Drivers Respond Earlier to Close Lateral Motion Than to Looming? The Importance of Data Selection. Malin Svärd.	The use 24 hour activity and video monitoring to determine the social preference of male and female C57BL/6J mice. Joanna Moore.	
15:30-15:45	A comparison of two methodologies for subjective evaluation of comfort in automated vehicles. Chen Peng.	ZooMonitor: A User-friendly App to Record Behavior and Space Use of Animals. Jason Wark.	
15:45-16:00	Applying Entropy to Understand Drivers' Uncertainty during Car-following. Wei Lyu.	Different approaches to study emotions and social interactions of farm animals for a deeper understanding of animal welfare. Jan Langbein.	
16:00-16:15	Development of an algorithm to identify stabilisation time for car-following after transitions of control from vehicle automation. Rafael Gonçalves.	Optimizing zebrafish welfare - effects of environmental enrichment on agonistic behavior and stress response in groups of zebrafish kept in different densities. Oly Sarma.	
16:20: 17:00	**Keynote: Neuroergonomics: monitoring the brain in complex real-life situations.** Prof. Frederic Dehais.	-	
17:00-17:05	Closing: Andrew Spink		