



Wed 6th June 2018

	Room 1	Room 2	Room 3	Room 4	Room 5
09:00-10:00	Keynote Francoise Wemelsfelder - "A Window on Welfare - Measuring the expressive qualities of behavior"				
	S14: New technologies and software to advance the 3rs and behavioural measurements in animal research	S2: Fish as model organisms in behavioural research	S7: New tools to analyse motor activity and movement	S12: Integration of traditional and neuroscientific techniques in the study of consumer behaviour: the contribute of Neuromarketing.	O3: New methods and techniques for human factors studies
10:00-10:20	Claire Witham Monitoring Social Relationships in Group-housed Monkeys using Automated Face Recognition and Tracking	Lynne Sneddon Larval zebrafish allows high throughput behavioural analysis: Replacing adults in the study of nociception and drug testing	Wiktor Niewiadomski, Ewelina Palasz, Krzysztof Kodrzycki, Anna Gasiorowska, Gernot Riedel and Grazyna Niewiadomska Analysis of movement in Inverted Grid Test: Principles, Confirmation and Automatization	Dominika Maison Implicit Association Test (IAT) – computer based method to measure implicit attitudes and better predict consumer behaviour	Chris Ferguson, Herre van Oostendorp, Egon L. van den Broek and Geert-Jan Giezeman. Hypertext usability measures for measuring task performance in serious games
10:20-10:40	Rowland Sillito, R Sonia Bains, Gareth Banks, Adina T Michael-Titus, Pat M Nolan, Will S Redfern, Jordi L Tremoleda, Karen Tse, Sara Wells, Ping K Yip and J Douglas Armsrong 3Rs Benefits of Monitoring Group Housed Animals in the Home Cage	Maxime Jacmin and Alexander D. Crawford Zebrafish Dravet syndrome models for antiepileptic drug candidates discovery and behaviour investigation	Maurizio Casarrubea, Wiktor Niewiadomski, Anna Gasiorowska, Ewelina Palasz, Grazyna Niewiadomska, Andrea Santangelo, Fabiana Fallisi, Giuseppe Crescimanno and Gernot Riedel Temporal patterns of mice behavior in the horizontal grid test following MPTP	Christian Caldato, Simone Benedetto, Elia Bazzan, Luca Rodighiero and Maurizio Mauri Emotional Impact played by Art Experience Measured by Means of Neuroscientific Techniques	Jonathan Carlton, Andy Brown, John Keane and Caroline Jay. Using Low-Level Interaction Data to Explore User Behaviour in Interactive-Media Experiences
10:40-11:00		Arshi Mustafa, Dicle Cetinkaya, Xi Cheng, Per Ove Thornqvist and Svante Winberg Spiegeldanio A bold and aggressive fish but what if it loses a fight?	Ivanna Timotius, Sandra Mocerì, Anne-Christine Plank, Johanna Habermeyer, Fabio Canneva, Nicolas Casadei, Olaf Riess, Jürgen Winkler, Jochen Klucken, Bjoern Eskofier and Stephan von Hörsten Rodent's Stride Length Depends on Body Size: Implications for CatWalk Assay	Maurizio Mauri, Luca Rodighiero, Elia Bazzan, Simone Benedetto, Christian Caldato and Linda Armano Assessment about Storefront Displays with a Multidisciplinary Approach based on Neuroscientific Methods, Self-reports and Anthropological Marketing.	Neil de Joux, Eleanor Foderingham, Danielle Harris and Leah O'Rourke. Functional near-infrared spectroscopy: beyond measuring workload
11:00-11:30	Coffee				
11:30-11:50	Lynne Sneddon An intelligent monitoring software tool to measure zebrafish health	Erika Roman, Ronja Brunberg, Arshi Mustafa, Per-Ove Thornqvist and Svante Winberg Behavioral Profiling using a Modified Version of the Zebrafish Multivariate Concentric Square Field™ (zMCSF) Test	Ivanna Timotius, Fabio Canneva, Georgia Minakaki, Sandra Mocerì, Nicolas Casadei, Olaf Riess, Jürgen Winkler, Stephan von Hörsten, Bjoern Eskofier and Jochen Klucken Systematic Data Analysis and Data Mining in Gait Analysis by Heat Mapping	Hendrik Slabbinck, Iris Vermeir, Nanouk Verhulst and Maurizio Mauri Self-serving technology or an employee? A neurological approach	Erwin R. Boer, Deborah Forster and Natasha Merat. Using Human Operators to Understand Human Operator Behavior: Adding Meaning to Behavior in Complex Environments using Ethnographic Auto-Confrontation
11:50-12:10	Nathalie Percie Du Sert Designing robust experiments with the Experimental Design Assistant	Svante Winberg, Arshi Mustafa, Per-Ove Thornqvist and Erika Roman How to Make Use of Individual Variation?	Ana Gerós, Ana Magalhães and Paulo Aguiar Automatic Classification of Rodents' Behavioral Activity based on Depth Cameras	Jesper Clement Validation of visual attention data comparing 2D and 3D set-up	Rene Vreede. On the Practicality of Mental Workload Measurement in a Maritime Environment
12:10-12:30	Discussion	Discussion	Discussion	M. Ángeles Vargas, Jeff Brunstrom, Salomé Pérez, Verónica Ciaurriz, Stefano Sobrino, Blanca Martínez de Morentin, Santiago Navas-Carretero, Alfredo Martínez and Eva Almiron-Roig Measuring the Effects of Visual Cues on Eating Behaviour through a Combined Methodological Platform	Fanta Camara, Richard A. Romano, Gustav Markkula, Ruth Madigan, Natasha Merat and Charles W. Fox Empirical game theory of pedestrian interaction for autonomous vehicles
12:30-14:00	Hot buffet lunch and poster session				
	O2: Traditional observational techniques applied to novel areas	S10: Measuring and influencing behavior using biological and neural measures in humans.	S5: Sequence Analysis Approaches to Discovering Hidden Temporal Patterns in Behaviour	S6: Measuring behavioural rhythms and what they reveal about an animal's state	O7: Laboratory animal welfare
14:00-14:20	Rachel Peden, Irene Camerlink and Simon Turner. Comparing farmers' perceptions of the severity of pig aggression seen in video clips against actual severity	Joost Dessing Using Transcranial Magnetic Stimulation to examine the control of manual interception	Dave Keatley and David Clarke Indicator Waves: A new temporal method for measuring multiple behaviours as indicators of future events	Nicolas Wagner, Violaine Antoine, Jonas Koko, Marie-Madelaine Richard, Romain Lardy and Isabelle Veissier. Use of time series methods to identify abnormal circadian pattern of activity	Stina Lundberg, Hélène Le and Erika Roman. Left Alone – Effects of Acute and Prolonged Social Isolation on the Behavioral Profile in Adult Male and Female Wistar Rats

14:20-14:40	Delphine Tanguy, Johan Ferrand-Verdejo, Richard Levy, Julie Socha, Raffaella 'Lara' Migliaccio and Bénédicte Batrancourt. Assessing disinhibition behaviour in behavioural variant frontotemporal dementia patients using ecological and cognitive tasks	Chesney Craig, Paul Holmes and Nicola Ray Using Electrophysiology to Provide Novel Insight into the Neural Activity Underlying Ambulatory Behavior	Paul Taylor Using Proximity Coefficients to Examine Behavioural Dependencies Within and Between Cases	Michel B.C. Sokolowski and Coralie Allain. Using Skinner boxes to study circadian rhythms in honey bees	Penny Hawkins. Animal Welfare and Scientific Implications of Housing Male Laboratory Mice Individually or in Groups
14:40-15:00	Hamada Mahboub, Sameh Ramadan, Mohamed Helal and Walaa Ahmed. Effect of Moringa oleifera leaves supplementation on behavior and growth performance of Nile tilapia (<i>Oreochromis niloticus</i>)	Yael Benn and Ofer Bergman Using fMRI to investigate human preferences in information behaviour	Magnus Magnusson T-pattern Detection and Analysis (TPA)	Christine Fuchs, Charlotte Kiefner, Magdalena Kalus, Sven Reese, Michael Erhard and Anna-Caroline Wöhr Polysomnography as a Tool to assess equine Welfare	
15:00-15:20	Annelien Smets, Ruben D'Hauwers and Bram Lievens. Context-Aware Experience Sampling Method to Understand Human Behavior in a Smart City: a Case Study	Maria I Cordero Studying stress effects on behaviour by combining subjective, endocrine, physiological and neural measures	Gudberg K. Jonsson An overview of recent research involving the T-pattern model	Lucy Asher, Jack O'Sullivan, Cassim Ladha and Zoe Belshaw. Rhythm of the night: Circadian rhythms in activity as a potential welfare indicator	
15:20-15:50	Tea	Workshop - Can Research Software Engineers help measuring behaviour?	Tutorial: The challenges and opportunities running a behavioral core facility offers	Workshop - Can we turn "Behavioural Tests" into "Behavioural Bioassays"?	Workshop behavioural rhythms
15:50-17:00					15:50-16:10 Christina Umstaetter, Bruna N. Marsiglio-Sarout, Carol-Anne Duthie, Marie J. Haskell, Anthony Waterhouse and Berger Anne. Using activity sensors to characterise behavioural rhythm
17:00-18:00	Keynote	Karl Bates - "Measuring functional morphology and ecological behaviour during the evolution of birds"			
Evening	Reception				



Thurs 7th June 2018

	Room 1	Room 2	Room 3	Room 4	Room 5	Exhibition area
09:00-10:00 Keynote	Frank Grasso - "The BioMimetic approach to studying the control and coordination of behavior in robots," S3: From models of behavior to models that behave	S9: Facial Expressions Analysis of Human and Animal Behavior	S8: Rodent and human studies of social behaviour and its dysfunctions	O6: New sensors for measuring behavior	S15: Measuring zoo animal welfare	
10:00-10:20	Benjamin Hawker and Roger Moore Deriving Hierarchical Control Structures to Produce Measurable Complex Behaviour	Tiffany Drape and Stacy Vincent Measuring Response to Racial Bias Among Preservice Teachers During a Class Intervention	Ewelina Knapska Tracking social hierarchy and interactions of mice in Eco-HAB - a fully automated and ecologically relevant environment for assessment of social behaviors	Sukru Eraslan, Yeliz Yesilada and Simon Harper. Crowdsourcing a Corpus of Eye Tracking Data on Web Pages: A Methodology	Sabrin Brando Introduction: Measuring zoo animal welfare session	
10:20-10:40	Shaktee Sindhu, Tauseef Gulrez, Maximilian Parker and Warren Mansell Measuring Behaviour as Perceptual Control Using Human Simulations of Predator and Prey Pursuit	Daniel Leightley Modelling attributes of common mental health disorders in adolescents using audio-visual data	David Skuse Autism Spectrum Disorders in Females	Murtazina Elena, Trifonova Natalya, Zhuravlev Boris, Matiulko Irina and Gorovaya Anna. Competitive and Cooperative Models of Joint Activities in Dyads by Using Biological Feedback from Electromyographic Signals	Holly Farmer Application of Technologies to Welfare Assessments in Zoos	
10:40-11:00	Maximilian Parker, Sarah Tyson, Andrew Weightman and Warren Mansell From Measurement to Models to Movements: Reproducing Human Tracking Performance with a Model Driven Steering Wheel.	Gemma Stringer, Laura Brown and Moi Hoon Yap Taking Research to the Community: An Initial Protocol for the Experimental Measurement of Emotional Expression in People with Dementia	Tatiana Peleh, Fayin Li, Laura Carnellas-Dols and Bastian Hengerer Automated analysis of social behavior in groups of mice	Alyx Milne, Mollie Taylor and Robyn Grant. How do Sea lions detect texture using their whiskers?	Maria Diez Leon To video or not to video? An overview of methodological approaches to record zoo animal behaviour, using stereotypic behaviours as an example	
11:00-11:30 Coffee 11:30-11:50	Vyv Huddy Acquisition of Control in a Complex Dynamic System Task: Computational Modelling of Spontaneous Improvements in Performance	Cristina Palmero, Elsbeth van Dam, Sergio Escalera, Mike Kelia, Guido Lichtert, Lucas Noldus, Andrew Spink and Astrid van Wieringen Automatic mutual gaze detection in face-to-face dyadic interaction videos	Indu Dubey and Bhismadev Chakrabarti Social Reward Responsibility in Humans: Insights for and from Autism Spectrum Disorder	Oludamilare Matthews, Simon Harper and Markel Vigo. Towards Arousal Sensing With High Fidelity Detection of Visual Focal Attention	Robert Young and Vinicius Goulart Using sound observations to measure behaviour	
11:50-12:10	Adam Matic and Alex Gomez-Marin Perceptual Origins of Geometric-Kinematic Constraints in Human Drawing	Maheen Rashid, Sofia Broomé, Pia Haubro Andersen, Karina Gleerup and Yong Jae Lee What should I annotate? An automatic tool for finding video segments for EquiFACS annotation	Christopher Pryce, Giorgio Bergamini, Hannes Sigrist, Franziska Odermatt and Bastian Hengerer Operant tests for the study of stress effects on gustatory and social reward processing in mice	Rana Khayyat, Robyn Grant, Kirsty Shaw and Louise Melling. The Effect Of Wing Tears On The Flight Behaviour Of Common Pipistrelle Bats (Pipistrellus Pipistrellus)	Samantha Ward and Geoff Hosey Measuring Human-Animal Interactions and Relationships: using psychological and biological approaches	
12:10-12:30	Alex Gomez-Marin, Shruthi Ravindranath, Gerald Loeb and Rui Costa Confident in Teaching, Ignorant in Learning: Reorganization and Good-Enough Control in Rodents, Humans and Simulations	Andreas Maroulis Baby FaceReader AU classification for Infant Facial Expression Configurations	Discussion	Ruth Sims, Matthew Hart and Anastasia Vasina. Use of wearable devices to reduce musculoskeletal risk behaviours	Sarah Chapman A proactive monitoring programme for ageing zoo animals	
12:30-14:00 Cold buffet lunch, posters, lunch, lab tours 14:00-15:30						
14:00-14:20	Zuzana Zajkova, José Manuel Reyes-González, Jacob González-Solis and Frederic Bartumeus. The Movement Ecology of Seabirds revealed with Unsupervised Behavioural Clustering	Pia Haubro Andersen, Karina Bech Gleerup, Jennifer Wathan, Britt Coles, Hedvig Kjellström, Sofia Broomé, Yong Jae Lee, Maheen Rashid, Erika Rosenberg, Claudia Sonder and Deborah Forster Can a Machine Learn to See Horse Pain? An Interdisciplinary Approach Towards Automated Decoding of Facial Expressions of Pain in the Horse	Magdalena Monier, Sabine Nöbel, Anne-Cécile Dagaëff, Laurent Polizzi, Guillaume Isabel and Etienne Danchin. The Hexagon - A New Tool for Multiple Simultaneous Demonstrations in Mate-Copying	Marina Terra-Braga, Maria Isabel Ferraz-De-Oliveira, José António Lopes-De-Castro and Elvira Sales-Baptista. Sheep nocturnal grazing behavior using infrared point-of-view camera – a preliminary study	Fay Clark Competence and Agency as Novel Measures of Zoo Animal Welfare	
14:20-14:40	Gerd Kempermann, Anna Grzyb, Sara Zocher, Susan Schilling and Andreas Brandmaier. Longitudinal multivariate measurement of emerging individuality	Luís M. Cunha, Célia Rocha and Rui Costa Lima A new approach to analyse facial behaviour elicited by food products: Temporal Dominance of Facial Emotions (TDFE)	Matiulko Irina, Murtazina Elena and Zhuravlev Boris. The Model of Cooperation of Two Rats in the Interactive Rat Touch Screen Chamber	Nick Van Loy, Griet Verbeeck and Elke Knapen. High accuracy indoor positioning system to monitor spatial use in dwellings	14:20 - 15:20 Discussion	

14:40-15:00	Annelien Smets, Francesca Spagnoli and Shenja van der Graaf. Behaviour Monitoring in Context: a Methodology for Measuring the Impact of the Human Factor on Smart Cities Big Data and Technologies	Karen Lander, Judith Bek and Ellen Poliakoff Measuring recognition of emotional facial expressions by people with Parkinson's disease using an eye-tracking methodology	Robyn Grant. The LocoWhisk Arena: A novel behavioural set-up that quantifies rodent exploration and locomotion behaviours	Adam Brooker, Andrew Davie and Herve Migaud. Observing the Fine-Scale Behaviour of Cleaner Fish in Commercial Salmon Net Pens Using Passive-Acoustic Telemetry	
15:00-15:20	Zach Cleghern, Margaret Gruen and David Roberts. Using Decision Tree Learning as an Interpretable Model for Predicting Candidate Guide Dog Success	Discussion	Michel B.C. Sokolowski. New tools to study nectar consumption in honey bees: testing demand law in honey bees	Rein Ahas. Mobile-phone based data-collection methods for social studies: case studies from Estonia	
15:20-16:00 Tea					
16:00-16:30	Demo: New tools for better behavioral data from Ugo Basile	Demo: FNIR from Biopac	Demo: MutualGazeReader from Noldus	Demo: Operant conditioning for nectar-foraging animals.	Demo: GaitKeeper from VetSens Demo: Simulating living systems from MMU
16:30-17:00	Ugo Basile Contd.	Biopac contd.	Demo: PaperSteam from Univ. Manchester	Demo: software for managing load and planning sports training	Gaitkeeper contd (to 16:45)
17:00-17:30	Demo: Loopbio	Demo: TSE	Demo: The GummiArm		
17:30-18:00	Demo: DSI				
18:00-19:00	Keynote & drinks				Kim Kaos - "Meet a Polar Bear"
Evening	Conference Dinner				



8th Friday June

	Room 1	Room 2	Room 3	Room 4	Room 5
09:00-10:00	Keynote Carl Payton - "Classification of Para swimmers with physical impairments - what should we measure and how?" S11: Measuring behavior in elite sport	S1: Application of sensor technologies in animal breeding	O8: Developments in extracting behavior from audio-video streams	O5: New behavioral methods in the field of psychology	
10:00-10:15	Paul Barratt Measuring Performance at the Great Britain Cycling Team	10:00-10:20 Esther Ellen and Bas Rodenburg Using sensor technologies in animal breeding: improving damaging behaviour of animals kept in groups	Helena Telkanranta, Elizabeth Paul and Michael Mendl. Thermal Imaging as an Emerging Technique to Study Proximate Causes of Behaviour – A Review on Current Methods and Future Directions	Ailsa E. Millen and Peter J.B. Hancock. A Novel Behavioural Test For Detecting Concealed Face Recognition	10:00-11:30 Tutorial: Vision for Action: How and why eye-tracking informs about performance in both real and virtual worlds from Tobii
10:15-10:30	Ian Gatt, Wheat Jon and Tom Allen Validity and Repeatability of wrist joint angles in Boxing using the Polhemus markerless motion capture system	10:20-10:40 Malou van der Sluis, Esther D. Ellen, Yvette de Haas and T. Bas Rodenburg Radiofrequency identification systems: Advantages and constraints for tracking and monitoring of individual animals	Benjamin Risse, Michael Mangan and Barbara Webb. Possibilities, Constraints and Limitations of Image-based Animal Tracking in Natural Environments	Johan Ferrand-Verdejo, Bénédicte Batrancourt, Delphine Tanguy, Rafaella 'Lara' Migliaccio and Richard Lévy. Apathy's forms and neural basis in behavioral frontotemporal dementia (bvFTD)	
10:30-10:45	Jonathan Shepherd, David Rowlands and David Thiel Are practice sessions created equal? Measuring individualistic player loading between wheelchair basketballers for the same training session	10:40-11:00 Christina Rufener, Berezowski John, Filipe Maximiano Sousa, Yandy Abreu, Lucy Asher and Michael Toscano Finding hens in a haystack: Consistency of movement patterns within and across individual laying hens maintained in large groups		Pauline Brugailieres, Claire Chabanet, Sylvie Issanchou and Camille Schwartz. Combining two observational methods to describe mealtime episodes in mother-infants dyads during complementary feeding	
10:45-11:00	Teodorico Caporaso, Stanislao Grazioso, Giuseppe Di Gironimo and Antonio Lanzotti Estimation of performance and infringements during race-walking field tests using a wearable inertial sensor system	11:00-11:30 Coffee	Coffee	Coffee	
11:00-11:15	Emma Anderson, Joseph Stone, Mohsen Shafizadehkenari, Marcus Dunn and Ben Heller Representative Movement Behaviour Measurement in Sport: Gold Standard Measurement versus Gold Standard Data				
11:15-11:45	Coffee S13: Monitoring and encouraging participation in sport and physical activity				
11:45-12:00	Anne Carter and Emily Hall Increasing participation in canine sport: minimising the risk to the canine athlete	11:30-11:50 Ahmed Ali and Janice Siegford An approach for tracking directional activity of individual laying hens within a multi-tier cage-free housing system (aviary) using accelerometers	Nikolai Bode. Using speaker diarization and local sequence alignment to study structural similarities in dyadic conversations	Pedro Ferreira Alves and Tãmara Rodrigues. Building empathy: Preparation of professionals and peers for an optimization of mediation	
12:00-12:15	Damien Dupre, Nicole Andelic, Daniel Moore, Gawain Morrison and Gary McKeown Multivariate Body Area Network of Physiological Measures "In the Wild": A case study with ziplining activity	11:50-12:10 Guzhva Oleksiy Perspectives of using deep learning and computer vision algorithms for continuous behavioural monitoring of dairy cows.	Mariane Kaizer, Thiago Alvim, Claudio Novaes and Robert Young. Applying camera trapping as a novel method for conservation/behaviour research of arboreal mammals	Ana Isabel Pereira and Helena Rodrigues. Songs' melody and lyrics recognition among children: Developing an app to mediate the memory retrieval processes	
12:15-12:30	Simon Choppin, John Kelley, Jeff Breckon, Mike Graney and Steve Haake Examining continued participation in Parkrun	12:10-12:30 Tomas Norton Application of sensor technologies in animal breeding		Fan Xu. Unwritten Rules May Help Subject Survival	
12:30-12:45	Marcel van der Kuil and Sebastian Buurma Digital coaching of runners using HRV – lessons learned from a coaching perspective	12:30-12:50 Discussion		Mikael Wahlström, Deborah Forster and Erwin Boer. Self-confrontation with traces of one's activity: making meaning of technology-rich in-situ natural behavior	
12:30-14:00	Cold buffet lunch, poster session and lab tours				
13:30-14:00	Closing session				
14:00 - 17:00	Tour and workshop National Cycle Centre				