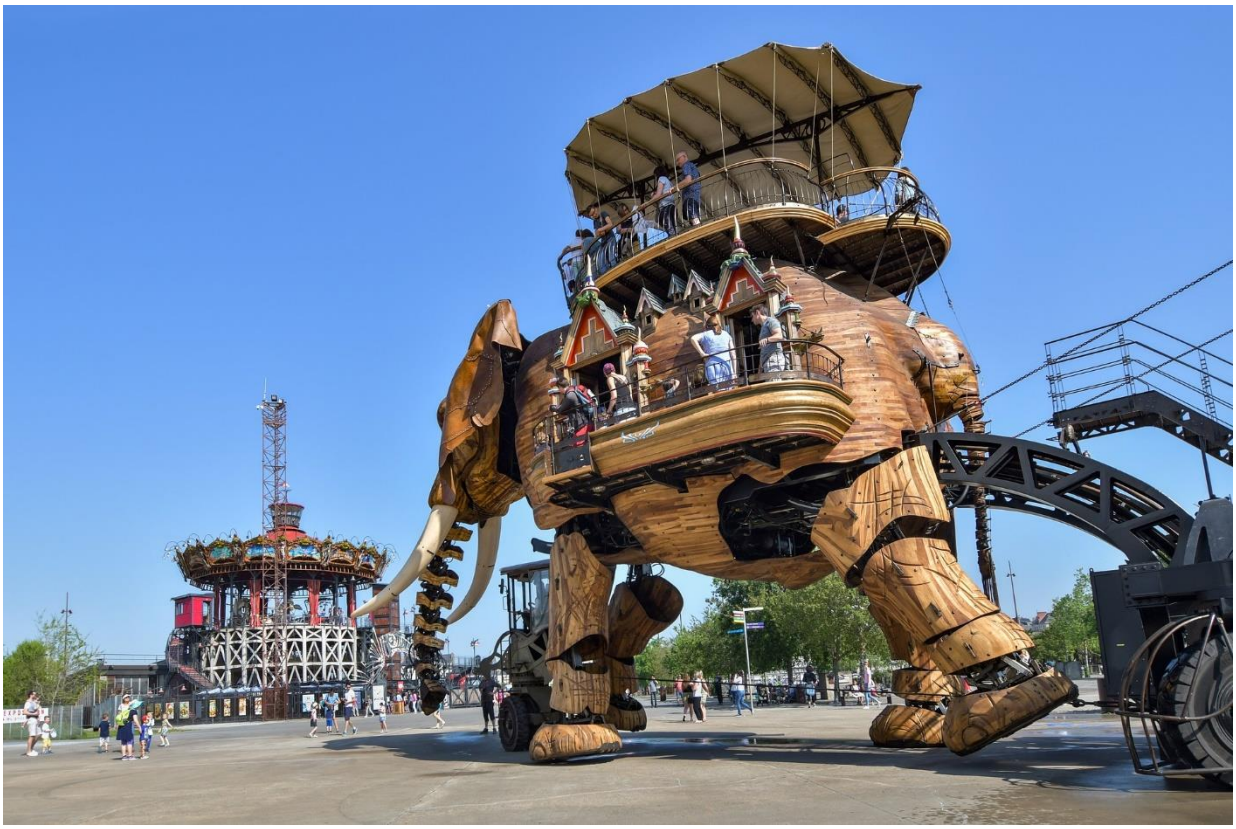
Europe Chapter
Human Factors and Ergonomics Society

Annual Meeting 2019

Understanding Human Behaviour in Complex Systems

October 2-4, 2019

NANTES - FRANCE



PROGRAMME

Europe Chapter
Human Factors and Ergonomics Society

Organization Committee 2019

Franck MARS, Isabelle MILLEVILLE

CNRS

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Ecole Centrale de Nantes

Cédric DUMAS

IMT-Atlantique

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ANTONELLA TOFFETTI

CRF

DICK DE WAARD

University of Groningen

Europe Chapter
Human Factors and Ergonomics Society

WEDNESDAY OCTOBER 2nd

08.30 - 09.15	**REGISTRATION** **Welcome coffee**	
09.15 - 09.30	**OPENING**	**Franck Mars** LS2N
09.30 - 10.50	**Session 1: AUTOMATION**	*Chair:* **Dick de Waard** University of Groningen
09.30 - 09.50	Contradictions in cooperation with artificial intelligence: a sociotechnical systems perspective	**Denis A. Coelho** Jönköping University
09.50 - 10.10	An adaptive assistance system for subjective critical driving situations: Understanding the relationship between subjective and objective complexity	**Alexander Lotz** Daimler AG / Technische Universität Berlin
10.10 - 10.30	The role of social stress in human-machine interaction	**Jürgen Sauer** University of Fribourg
10.30 - 10.50	I don't care what the robot does! Trust in automation when working with a heavy-load robot	**Franziska Legler** Chemnitz University of Technology
10.50 - 11.20	**POSTER SETUP - Coffee break**	
11.20 - 12.40	**Session 2: SURFACE TRANSPORTATION - 1**	*Chair:* **Luca Pietrantoni** University of Bologna
11.20 - 11.40	Measuring pedestrian behaviour in real traffic: Evaluating video and self-report data	**Mirjam Lanzer** Ulm University
11.40 - 12.00	Training Wavedrivers online	**Antonio Lucas-Alba** University of Zaragoza
12.00 - 12.20	Studying the link between hazard perception ability and hard braking events by using a range of thresholds for hard braking	**Assaf Botzer** Ariel University
12.20 - 12.40	Hybrid Electric Vehicle Drivers' Interaction with Eco-Automation: The Perspective of User-energy Interaction	**Matthias G. Arend (Thomas Franke)** RWTH Aachen University
12.40 - 13.40	**Lunch**	
13.40 - 15.00	**Session 3: HUMAN-MACHINE INTERACTION / HUMAN-ROBOT INTERACTION**	*Chair:* **Linda Onnasch** Humboldt-Universität zu Berlin
13.40 - 14.00	The making of Museum' works as smart things	**Charles Tijus** Lab. Cognitions Humaine et Artificielle
14.00 - 14.20	Information needs regarding the purposeful activation of automated driving functions	**Simon Danner** Technical University Munich
14.20 - 14.40	Investigating hyperlink selection with gaze-driven user agents	**Daniel Vella** University of Malta
14.40 - 15.00	Social stress and performance in hybrid teams	**Simon Thuillard** Université de Fribourg
15.00 - 15.30	**Coffee break**	
15.30 - 16.30	**Session 4: HUMAN FACTORS IN HEALTHCARE**	*Chair:* **Cédric Dumas** IMT-Atlantique
15.30 - 15.50	Why is circular suturing so difficult?	**Chloe Topolski (Caroline Cao)** IMT Atlantique / Wright State University
15.50 - 16.10	Reviewing Usability Standards for Medical Devices: Some Gaps and Possible Risks	**Marwa Gadala** University of London
16.10 - 16.30	An extended version of the Dynamic Safety Model to analysis medical emergency team	**Thierry Morineau** University of Bretagne Sud
16.30 - 17.00	**TALKING POSTER Session** All Poster Presenters have 20 seconds to promote their poster	**Dick de Waard** University of Groningen
17.00 - 18.30	**POSTER Session** Authors present at their poster	
18.00 - 19.00	**Europe Chapter HFES Business Meeting** Executive Council, Chapter Members are welcome	

THURSDAY OCTOBER 3rd

09.00 - 10.40	**Session 5: HIGHLY AUTOMATED VEHICLES - 1**	*Chair:* **Franck Mars** LS2N
09.00 - 09.20	Driving with a L3- motorway chauffeur: How do drivers use their driving time?	**Johanna Wörle** Wuerzburg Institute for Traffic Sciences
09.20 - 09.40	The Renaissance of Wizard-of-Oz	**Klaus Bengler** Technical University of Munich
09.40 - 10.00	Does driving experience matter? Influence of trajectory behaviour on student and experienced driver's trust, acceptance and perceived safety in automated driving	**Patrick Rossner** Chemnitz University of Technology
10.00 - 10.20	Keeping drivers 'somewhat' in the perceptual-motor loop during conditionally automated driving	**Jeremy Dillmann** BMW Group / University of Groningen
10.20 - 10.40	Evaluation of Different Driving Styles During Conditionally Automated Highway Driving	**Stephanie Cramer (Tabea Blenk)** AUDI AG
10.40 - 11.10	**Coffee break**	
11.10 - 12.30	**Session 6: INDUSTRIAL HUMAN FACTORS**	*Chair:* **Jean-François Petiot** Ecole Centrale de Nantes
11.10 - 11.30	Identification of behaviour indicators for fault diagnosis strategies	**Katrin Linstedt** Karlsruhe Institute of Technology
11.30 - 11.50	Investigating the effect of passive exoskeletons on arms-elevated tasks	**Aurélie Moyon** Ecole Centrale de Nantes
11.50 - 12.10	A Model for the Development of Railway Trainers in Integrating Non-Technical Skills into Training and Assessment: An International Case Study of Train Driver Trainer Skills Development	**Andrew Russell** Rail Training International Ltd
12.10 - 12.30	Interpersonal trust to enhance cyber crises management	**Florent Bollon** ONERA
12.30 - 13.30	**Lunch**	
13.30 - 14.50	**Session 7: NEUROERGONOMICS**	*Chair:* **Isabelle Milleville** LS2N
13.30 - 13.50	Contributions of physiological markers to enhance Human-System Interaction in the aeronautical domain	**Raphaëlle N. Roy** ISAE-SUPAERO, Université de Toulouse
13.50 - 14.10	Fault detection and correction in the engine room of a ship: An fNIRS study	**Stephen Symes** Liverpool John Moores University
14.10 - 14.30	Ecological EEG evaluation of auditory alarm perception during flight simulation	**Bertille Somon** ISAE-SUPAERO, Université de Toulouse
14.30 - 14.50	Brain activity linked to visual cue processing in manual and autonomous driving while listening a broadcast: a fNIRS study	**Alexandra Fort** TS2/IFSTTAR/LESCOT
14.50 - 15.20	**Coffee break**	
15.20 - 16.40	**Session 8: SURFACE TRANSPORTATION - 2**	*Chair:* **Thomas Franke** University of Lübeck
15.20 - 15.40	On-board HMI design for highly automated driving: Examining user's information needs about an automated car's driving intentions in two user studies	**Janki Dodiya** DLR
15.40 - 16.00	Early Stages of Cooperative-Intelligent Transportation System acceptance : The SCOOP French FOT	**Laurette Guyonvarch (Cécile Barbier)** Renault PSA
16.00 - 16.20	Driver's Experience and Mode Awareness in between and during transitions of different levels of car automation	**Paula Lassmann** University of Stuttgart
16.20 -16.40	Objective kinetosis detection in a real driving scenario	**Rebecca Pham Xuan** Volkswagen AG
16.40 - 16.45	**KEYNOTE Introduction**	**Franck Mars** LS2N
16.45 - 17.30	**KEYNOTE** Towards human-robot symbiosis	**Prof. David A. Abbink** Delft University of Technology
20.00	**CONFERENCE DINNER**	

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FRIDAY OCTOBER 4th

09.30 - 10.50	**Session 9: AVIATION**	*Chair:* **Assaf Botzer** Ariel University
09.30 - 09.50	Visual anticipation in the real world: Does eye tracking data explain the aviation expert's skills?	**Jason Khoury** Centre de Recherche de l'Ecole de l'Air / Armée de l'air Française
09.50 - 10.10	Disentangling the Enigmatic Slowing Effect of Microgravity on Sensorimotor Performance	**Bernhard Weber** German Aerospace Center
10.10 - 10.30	Teamwork in the Cockpit: The Impact of a Reduced Crew on Pilot Behaviour	**Anja K. Faulhaber** TU Braunschweig
10.30 - 10.50	The influence of audiovisual cues on remote pilot manual flying performance	**Matthew Dunn** University of New South Wales
10.50 - 11.15	**Coffee break**	
11.15 - 12.45	**Session 10: HIGHLY AUTOMATED VEHICLES - 2**	*Chair:* **Antonella Toffetti** Centro Ricerche Fiat
11.15 - 11.35	Monitoring visual strategies to detect the out-of-the-loop phenomenon in automated driving	**Damien Schnebelen** LS2N, UMR 6004, CNRS
11.35 - 11.55	How will autonomous cars interact with cyclists: an analysis of cyclist behaviour	**Arjan Stuiver** University of Groningen / Japan Automobile Research Institute
11.55 - 12.15	Task load of professional drivers during level 2 and 3 automated driving	**Hans-Joachim Bieg** Robert Bosch GmbH, Corporate Research
12.15 - 12.35	Initial level of Trust and driver's behaviour during Automated Driving	**J. B. Manchon** VEDECOM Institute
12.35 - 12.45	**BEST POSTER AWARD 2019** **EARLY CAREER BEST PAPER AWARD 2019** **CONFERENCE CLOSING**	**Arjan Stuiver** University of Groningen **Thomas Franke** University of Lübeck **Franck Mars** LS2N **Antonella Toffetti** Centro Ricerche Fiat
12.45 - 14.00	**Lunch**	

WEDNESDAY 2nd - FRIDAY 4th OCTOBER

No	POSTERS	AUTHOR	AFFILIATION
1	External HMI of communication and autonomous vehicles: a pedestrian's study	**Natacha Métayer**	Institut VEDECOM
2	Steady, flashing, sweeping - An exploratory evaluation of light signals as an eHMI in automated driving	**Ann-Christin Hensch**	Chemnitz University of Technology
3	Context-aware HMIs in the field: Effects on usability and user experience	**Anna Pätzold**	Opel Automobile GmbH
4	Avoiding the overload: Design requirements for an interior HMI in mixed traffic	**Daniel Trommler**	Chemnitz University of Technology
5	Seat Belt Based Vibrotactile Warnings for Takeover Situations in Automated Driving	**Gert Weller**	Joyson Safety Systems
6	Rear Seat Belt Comfort: a DFSS experimental approach	**Gabriella Bisci**	FCA EMEA
7	Relationship between self-reported attentional errors and the ability to predict upcoming hazards on the road, with driving experience having a moderating role	**Candida Castro**	University of Granada
8	Risk perception at the driver seat in an autonomous vehicle	**Jeffery Petit**	LS2N
9	A gender-sensitive data acquisition framework for quantification of trust and acceptance of advanced driver assistance systems	**Norah Neuhuber**	VIRTUAL VEHICLE Research Center
10	Studying driving styles on a driving simulator: The case of overtaking on highways	**Emanuel Sousa**	Center for Computer Graphics
11	Unified modelling of detection of and recovery from steering automation failure	**J. Pekkanen**	University of Leeds
12	The effect of active steering control demand on gaze behaviour	**Callum Mole**	University of Leeds
13	Deciding when to correct: threshold vs accumulator models of steering action initiation	**C.M. Goodridge**	University of Leeds
~~14~~	~~Head movement measures in a real driving situation for understanding motion sickness development~~	~~**Adrian Brietzke**~~	~~Volkswagen AG~~
15	Combining gaze-tracking and physiological measurements to assess the driver's state in automated cars	**Paul Marti**	LS2N CNRS / IFSTTAR / Renault
16	The usefulness of physiological data as indicator for situation awareness in semi-autonomous driving	**Quentin Meteier**	Hes-So
17	Objective Workload Evaluation with Lane Keeping Assistance System using Physiological Signal and Driving Performance Metrics	**Yu-Jeng Kuo**	Kempten University of Applied Science
18	NeSitA - Neuroergonomical Assessment of Situation Awareness in a Continuous Multidimensional Approach	**Marius Klug**	Technische Universität Berlin
19	Evaluating a physiological sensor for cognitive workload assessment in two different military settings	**Thomas E. F. Witte**	Fraunhofer Institute for Communication, Information Processing and Ergonomics FKIE
20	Impact of Task Demands on Operators' Performance during Pilot-UAVs Interaction	**Gaganpreet Singh**	ISAE-SUPAERO, Université de Toulouse
21	The Exploration of Augmented Reality Principles and Future Cockpits in Basic Flight Training	**Salwa Hjiej**	Ecole Royale Air
22	Study about student pilots activity for designing a flight simulator with total visual immersion	**Johan Rendy**	LS2N PACCE
23	Helicopter pilots' tasks and external visual cueing during shipboard landing	**Marco De Angelis**	University of Bologna
24	Detection thresholds for mid-air interaction. How sensitive are we during stressful tasks?	**Max Bernhagen**	Chemnitz University of Technology
25	Human behaviour modelling in tools for Air Traffic Management change impact assessment	**Gabriella Duca**	Institute for Sustainable Society and Innovation

No	POSTER	AUTHOR	AFFILIATION
26	Sharing Rides in Autonomous Mobility-on-Demand-Systems – Acceptability, Information Needs and Incentive Systems	**Alexandra König**	German Aerospace Center
27	Psychological factors associated with aviation accidents	**Robert O. Walton**	Embry-Riddle Aeronautical University
28	Human Factors in Unmanned Aerial Systems in the German Bundeswehr	**Wiebke Melcher**	German Aerospace Center
29	Design of Experiments for the evaluation of the interaction human - exoskeleton in the context of small data collections	**Fabien Clanché**	Université de Lorraine
30	Usability and Interfaces of Lower Limb Exoskeletons: a Framework for Assessment and Benchmark	**Giuseppe Rainieri**	University of Bologna
31	Conception of interfaces to represent functional relations in a packaging machine	**Susanne Jaster**	Technische Universität Dresden
32	Eliciting strategies for diagnosing faults of packaging machines: A scenario-based study with maintenance technicians	**Lisa Mesletzky**	Technische Universität Dresden
33	Experimentation of “empowerment” in an aeronautic industry: identification of the levers and obstacles to managerial innovations based on employees’ interviews	**Alison Caillé**	AIRBUS
34	Improving employees well-being by integrating human factors into work situations : the case of a digital service company	**Manon Kervella**	onepoint - Pessac
35	A virtual planning concept for the Human Robot Cooperation using software tools and virtual reality	**Pengxiang Zhang**	Volkswagen AG
36	Impact of Anthropomorphic Robot Design on Human Trust and Visual Attention in Cooperative Human-Robot Interaction	**Linda Onnasch**	Humboldt-Universität zu Berlin
37	Cardiac activity variations elicited by alarms during Human-Robot Interaction	**Nicolas Drougard**	ISAE-SUPAERO, Université de Toulouse
38	The effect of Cognitive Load when responding to Silent Failures	**W. Sheppard**	University of Leeds
39	Integration of Human Information Processing Models for Human Centred AI	**Rene van Egmond**	Industrial Design, TU Delft
40	This is not a gun: The influence of cue plausibility on performance in visual inspection of cabin baggage	**Alain Chavaillaz**	University of Fribourg
41	Do I look at what I'm saying?	**Danny Rueffert (Alexander Kögel)**	Chemnitz University of Technology
42	Affordance-based scenario modelling and lived experience evaluation in Virtual Reality	**Katy Tcha-Tokey**	University of Nantes
43	Changing the interface design of smartphones: effects on usage and well-being	**Carli Ochs**	University of Fribourg
44	Minimalism in User Interface Design; Prospects and Challenges for startup developers	**Noble Ahiaklo-Kuz**	Technische Universität Berlin
45	How the availability of privacy information influences users´ smartphone app selection behaviour	**Sven Bock**	Technical University Berlin
46	Interaction Strategies for Handing over Objects to Blind People	**Peggy Walde (Franziska Legler)**	Chemnitz University of Technology
47	Capturing quantitative user feedback using virtual questionnaires in virtual reality	**Jonas Trezl (Patrick Roßner)**	Technische Universität Chemnitz
48	Machine effectiveness made understandable: Integrated displays that inform operators about effectiveness components and possible interventions	**Natalia Koshman**	Technische Universität Dresden
49	The Storm in your Head: Bringing Neurofeedback in VR	**Thomas Huraux**	Scalian
50	Interaction strategies on three-dimensional user interfaces with pointer devices	**Andre Dettmann**	Chemnitz University of Technology
51	Hazard perception abilities among surf and swimming-pool professional lifeguards and bathers	**Anat Meir**	Holon Institute of Technology (HIT)
52	Natural interactions on virtual reality: evaluation on the cognitive load	**Thomas Galais**	onepoint- Pessac
53	Practice-oriented development of a user-centred assistance and safety system for supporting people with dementia	**Anne Goy**	Chemnitz University of Technology
54	E-Health Interface: Evaluate the impact of health data visualization on physiological and emotional responses	**Chloé Lourdais**	Laboratoire des Sciences du Numérique de Nantes