Monday, January 27th morning (room V115-V116)

8:00: Welcome breakfast and registration

8:45: Opening talk by the SIG Chairs

Session: Design theory and new measures of performance Chair: Ehud Kroll		
9:00 – 9:45	Data-Driven Innovation	Jianxi LUO (Singapore University of Technology and Design)
9:45 – 10:30	How design theory sheds light on performance measurement in both rule- based and innovative design	Agathe Gilain (MINES ParisTech)

10:30 – 11:00: Coffee break 10

Session: design theory and knowledge Chair: Eswaran Subrahmanian		
11:00 – 11:45	Dymaxion World of Buckminster Fuller – how C-K concept/knowledge relates to invention	Thomas ZUNG (CEO of Fuller, Sadao & Zung architects)
11:45 – 12:30	Design theory, Topos and socio- Ecosystems: innovative design as preservation	Armand Hatchuel (MINES ParisTech)

12:30 – 14:00 Lunch



Monday, January 27th afternoon (room V115-V116)

Session: Design theory and public management Chair: Armand Hatchuel		
14:00 – 14:45	A C-K based tool for the innovative generation of policy generation	Irene Pluchinotta (University College London)
14:45 – 15:30	State-of-the-art for Public Policy and Design Theory	Marta Gasparin (Leicester University)

15:30 - 16:00: Coffee break 10

Roundtable and collective discussion on 'the role of formal design theory in design education – beyond project-based learning' Chair: Yoram Reich		
16:00 – 17:30	Participants: Albert David (Dauphine Université – PSL) & Anaëlle Camarda (MINES ParisTech PSL), Ehud Kroll (ORT Braude College), Frido Smulders (TU Delft)	

17:30 – 18:15	How to make Bottom of the Pyramid relevant? The Danone Experience	Eric Soubeiran, VP Nature & Water cycle, Chief Executive Danone Ecosystem Fund
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18:30 – 21:00: Solutions Visit of the museum of mineralogy at MINES ParisTech T Cocktail in Salle des Colonnes (V213) T

Tuesday, January 28th morning (room V111 / V112-113-114 / V115 / V116 / V119 / Chevalier)

8:30: I coffee and breakfast

Parallel session			
	DESIGN THEORY AND INDUSTRIAL DESIGN, ART AND PHILOSOPHY Chair: Benoit Weil		
	• 9:00-9:30. <i>The meaning of concept definition</i> . Yvonne Eriksson (Mälardalen University), Kristin Paetzold (Universität der Bundeswehr München)		
	• 9:30-10:00. Thinking outside the moral box: the « foresight ethics » approach of the Montreal Declaration on Responsible AI. Christophe Abrassart (Université de Montréal)		
9:00 -12:30	• 10:00-10:30. The psychic life of design innovation. Ken Starkey (The University of Nottingham)		
Room V111	t⊛ 10:30 – 11:00 Coffee break t⊛		
	• 11:00-11:30. Industrialism and Modernism or Scientific Management, Arts and Design. Per Aman, Hans Andersson (Linkoping University)		
	• 11:30-12:00. <i>Designers as truth makers.</i> Claudia Eckert (The Open University), Rafaela Hillerbrand (Karlsruhe Institute of Technology)		
	 12:00-12:30. Design Innovation in collective intimacy: the transduction of power. Anne-Françoise Schmid (Chaire TMCI), Muriel Mambrini-Doudet (INRA), Eswaran Subrahmanian, Ira Monarch (CMU) 		

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	Parallel session
9:00-12:30 Room V112-V113- V114	DESIGN THEORY, DATA SCIENCE AND AI Chair: Armand Hatchuel • 9:00-9:30. A Conceptual Map for Management-Compatible Artificial Intelligence. Alix Nicolas, Albert David (Dauphine Université) • 9:30-10:00. Syntactic and Semantic Generativity in Engineering Design. Hein Andreas Makoto (Centrale Supélec) • 10:00-10:30. Extending C-K Theory with Notions from Design Abduction. Lauri Koskela (University of Huddersfield), Ehud Kroll (ORT Braude College) • 11:00-11:30. Design Representations in Axiomatic Design. Christopher Brown (Worcester Polytechnic Institute) • 11:30-12:00. When I and AI Create: Examining Performance Gains from Human-AI Collaborative Co- creation. Leona Chandra Kruse (University of Liechtenstein) David Agogo (Florida International University) • 12:00-12:30. Algorithmic approach to engineering design. Vladimir Sedenkov (Belarusian state university)

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Parallel session
DESIGN THEORY AND INNOVATION MANAGEMENT Chair: Irene Pluchinotta • 9:00-9:30. Is Product/Service System Designing Different from Other Designing? Sakao Tomohiko, Neramballi Abhijna (Linköping University), John Gero (University of North Carolina at Charlotte) • 9:30-10:00. Slow design innovation: a response to our future in the anthroposcene epoch. Marta Gasparin, William Green (Leicester University) Christophe Schinckus (CIRST) • 10:00-10:30. Corporate Liberation and Employability. Stanislas Banaszuk (Université Dauphine) Im 10:30 - 11:00 Coffee break Im • 11:00-11:30. The production of law in contexts of breakthrough innovation: temporary hesitations, or crisis of design regime? Albert David, Iris Champagne (Université Dauphine) • 11:30-12:00. Analysis of Design Teams' Behaviors: Temporary Sub-Teams? Julie Milovanovic (Ecole Centrale de Nantes) John Gero (University of North Carolina at Charlotte) • 12:00-12:30: What does proof of concept (POC) really do? A systematic comparison of generativity and robustness of POC practices. Caroline Jobin (MINES ParisTech)

	Parallel session
9:00 -12:30 Room V116	DESIGN THEORY AND THE DESIGN OF COLLECTIVE ACTION Chair: William Green • 9:00-9:30. Setting up for successful interdisciplinary collaborations in science: a case of a National Science Challenge in New Zealand. Rafaela Costa Camões Rabello, Katharina Ruckstuhl (University of Otago), Paul Woodfield (Auckland University of Technology), Olga Kokshagina (RMIT University) Susan Sandretto (University of Otago), Willy-John Martin (Callaghan Innovation) • 9:30-10:00. Open organising of research: multiple perspectives on design research prototypes. Olga Kokshagina (RMIT University) • 10:00-10:30. Bridging Design Education and Research through a Strategic Design Lens. André Liem (Norwegian University of Science and Technology) • 11:00-11:30. On modelling the embeddedness of design in larger social endeavours – lessons learned from open laboratories. Albrecht Fritzsche (Universität Ulm) • 11:30-12:00. Generating alternatives for decision models. Alexis Tsoukiàs (Dauphine Université), Alberto Colorni (Politecnico di Milano) • 12:00-12:30. Taking collective (design) decisions in a Multi-Issue game. Femke Bekius (Radboud university) Helle Hvid Hansen (Delft University of Technology)

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	Parallel session
	DESIGN THEORY AND DESIGN METHODS Chair: Sandor Vajna
	• 9:00-9:30. <i>Design of Brakes: Applied category theory</i> . Spencer Briener, Blake Pollard, Eswaran Subrahmanian (Carnegie Mellon University)
	 9:30-10:00. A framework for the conceptual design of geo-structures. Denis Leboeuf (Université Laval) 10:00-10:30. Designerly Activity Theory: A Framework for Understanding Research Through Design. Mithra Zahedi (Université de Montréal)
9:00 -12:30	t⊛ 10:30 – 11:00 Coffee break t⊛
Room V119	• 11:00-11:30. Integral design frame work for integrated building design and the added value of C-constructs for practitioners. Wim Zeiler (Faculty of the Built Environment)
	• 11:30-12:00. <i>How do design theories account for novelty?</i> Majda Perisic Marija (University of Zagreb) Mario Štorga (University of Zagreb & Luleå University of Technology), John Gero (University of North Carolina at Charlotte)
	• 12:00-12:30: A theoretical foundation for Design for Simplicity. Fabian Pilz (Otto-von-Guericke University Magdeburg)

	Parallel session
	DESIGN THEORY AND COGNITION Chair: Olivier Potier
	• 9:00-9:30. An Overview of an EEG Study of Designers Across Domains and Tasks. Sonia Vieira (Institute of Science and Innovation in Mechanical and Industrial Engineering, FEUP), John Gero (UNCC)
0.00 12.20	 9:30-10:00. Toward an analysis of architectural design actions. Maria Rosaria Stufano Melone (Politecnico di Bari)
9:00 -12:30 Room Chevalier	 10:00-10:30. The Dual-Process Theory of Thinking in Cognitive Science and Its Incorporation into a Design Theory. John Gero (UNCC) Udo Kannengiesser (Johannes Kepler Universität)
	'● 10:30 – 11:00 Coffee break '●
	• 11:00-11:30. Bounded imagination: Flip-side of bounded rationality. Frido Smulders (Delft University of Technology)
	• 12:00-12:30. Scientific Reflection with Notation Systems and Visual Languages. Martin Brösamle (ETH Zurich)



Tuesday, January 28th afternoon (room V115-V116)

Session: Design theory and collective action Chair: Frido Smulders		
14:00-14:45	Mixing oil and water: developing theories of/for practice in management research informed by design science	Dimo Dimov (University of Bath), George Romme (TU Eindhoven)
14:45 – 15:30	We are not users – dialogues, diversity and design" (MIT Press book, 2019)	Eswaran Subrahmanian (CMU & NIST), Yoram Reich (Tel Aviv Univ)

🝽 15:30 – 16:00: Coffee break 🍽

Chair: Benoit Weil		
16:00 – 16:45	Research and Innovation in Silicon Valley	Christophe Lecuyer (Sorbonne Université)
16:45 – 17:30	Closing and Future Program, Eswaran Subrahmanian	