Monday, January 31ˢᵗ

Zoom link for the whole day

11:45: Opening talk by the SIG Chairs

Plenary Session: design theory and socio-ecological systems
Chair: Eswaran Subrahmanian / Chat moderator: Maxime Thomas

12:00-12:45	Reflections on the design of social-ecological systems: generation and emergence of entangled naturalities	Armand HATCHUEL **(MINES ParisTech)**
12:45-13:30	Designing for Assistive Technology	P. V. Madhusudhan Rao **(Indian Institute of Technology Delhi)**

☕🍽 13:30 – 14:00 break 🍽☕

Plenary Session: design theory and the management of knowledge
Chair: Armand Hatchuel / Chat moderator: Raphaëlle Barbier

14:00-14:45	Information ecology, Category theory and Design	Eswaran SUBRAHMANIAN **(CMU)**
14:45-15:30	The hidden designers: when idea evaluators act as defixating leaders	Justine BOUDIER **(MINES ParisTech)** Alexandre Sukhov **(Karlstad University)**

☕🍽 15:30 – 16:00 break ☕🍽

Monday, January 31ˢᵗ

Zoom link for the whole day

<table>
<tr>
<td colspan="3"><h3>Plenary Session: design theory and education</h3><p>Chair: Ehud Kroll / Chat moderator: Honorine Harlé</p></td>
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<tr>
<td>16:00-16:45</td>
<td>How design theory supports chemical engineering teaching and learning: empirical evidence from a French school of engineering</td>
<td>Olivier POTIER, Mauricio CAMARGO, Manon ENJOLRAS (Université de Lorraine)</td>
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<tr>
<td>16:45-17:30</td>
<td>Training researchers to foster innovation and interdisciplinary research programs for agriculture at INRAE</td>
<td>Elsa BERTHET Gwenael VOURCH Jean-Marc MEYNARD (INRAE)</td>
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<td>17:30-18:15</td>
<td>Progress report of an EELISA community: the IDEEE initiative (Innovation and Design for European Engineering Education)</td>
<td>Frido Smulders, Gaetano Cascini, Kathrin Möslein, Paul Coughlan, Marial Elmquist, Antonio Fernandes, Pascal Le Masson, Maxime Thomas, Benoit Weil</td>
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☕🍽 **18:15 – 18:45: break** ☕🍽

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<tr>
<td colspan="3"><h3>Plenary Session</h3><p>Chair: Pascal Le Masson / Chat moderator: Caroline Jobin</p></td>
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<tr>
<td>18:45-19:30</td>
<td>The Design of Design</td>
<td>Neil GERSHENFELD (Massachusetts Institute of Technology, Center for Bits and Atoms)</td>
</tr>
</table>

Tuesday, February 1ˢᵗ

Parallel session 1
Zoom link:

12:00-15:15	**DESIGN THEORY, ART AND PHILOSOPHY** *Chair: Pascal Le Masson / Chat moderator: Agathe Gilain* • 12:00-12:30: Understanding the pragmatic roots of design propositions - a culturalist approach. Albrecht Fritzsche (**Université Internationale de Rabat**) • 12:30-13:00: Information Design and its relation to lived body. Yvonne Eriksson (**Mälardalen University**) • 13:00-13:30: The role of the Peircean categories in design theory. Lauri Koskela (**University of Huddersfield**) Ehud Kroll (**ORT Braude College**) ☕🍽 **13:30 – 13:45 break** ☕🍽 • 13:45-14:15: Dynamic C-K Theory: Towards an Anthropological Understanding of the Role of Energy in Organizational Design and Capital Formation. Elissa Wickham (**Waseda University**) Ade Mabogunje, Larry Leifer (**Stanford University**) • 14:15-14:45: Intention in Design: A Dialog into the Unknown. Anne-Françoise Schmid (**Chaire TMCI**), Muriel Mambrini-Doudet (**INRAE**), Eswaran Subrahmanian, Ira Monarch (**CMU**) • 14:45-15:15: Care as a theory of design by moral imagination. Perspectives from Carol Gilligan and Joan Tronto. Christophe Abrassart (**Université de Montréal**)

☕🍽**15:15 – 15:45 Break** ☕🍽

	Parallel session 2 Zoom link:
12:00-15:15	**DESIGN THEORY AND INNOVATION, ENTREPRENEURSHIP AND EDUCATION** *Chair: Frido Smulders / Chat moderator: Louise Taupin* • 12:00-12:30: *AI-bility: Cultivating AI Awareness in Schoolchildren.* Leona Chandra Kruse **(University of Liechtenstein)** • 12:30-13:00: *Entrepreneurship education by design: Combining C-K theory and co-evolution.* Jeroen Coelen Jeroen **(Entrepreneurship by Design Lab, Delft University of Technology),** Frido Smulders **(Technische Universiteit Delft)** • 13:00-13:30: *Feasibility in Design.* Andreas Makoto Hein **(University of Luxembourg)** ☕🍽 **13:30 – 13:45 break** ☕🍽 • 13:45-14:15: *Improving MVP tests and scale-up phase of technological start-ups through the definition of a creation heritage.* Louise Taupin, Raphaëlle Barbier, Pascal Le Masson, Ellyn Redheuil, Blanche Segrestin, Chipten Valibhay, **(MINES ParisTech, PSL Université)** • 14:15-14:45: *Scalability of generative knowledge management systems: designing for individuals' and institutions' mutual benefit.* Ulrich Schmitt **(University of Stellenbosch Business School)**

☕🍽**15:15 – 15:45 Break** ☕🍽

Parallel session 3
Zoom link:

DESIGN THEORY AND THE DESIGN OF POLICY
Chair: Sophie Hooge / Chat moderator: Nafissa Jibet

12:00-15:15

- 12:00-12:30: *A further advancement of the c-k theory-based tool for the innovative generation of policy alternatives.* Halil Berkay Tosunlu **(Université Paris Dauphine-PSL),** Joseph Guillaume **(The Australian National University),** Irene Pluchinotta **(University College London**
- 12:30-13:00: *C-K theory in kindergarten "When a collective of 5-year-olds behaves like a mini learned society".* Alberti-Ortheau Laurence **(Ministère de l'Education Nationale**), Ricci Nicolas **(ENS Paris-Saclay**), Dominique Lafon (**Cayak-Innov)**
- 13:00-13:30: *C-K^E/I: A pragmatic framework for policy innovation.* Yves Meinard **(Université Paris Dauphine-PSL)** Irene Pluchinotta **(University College London)**

☕🍽 **13:30 – 13:45 break** ☕🍽

- 13:45-14:15: *Engineering in the territories, the side step Innovative conception of the Grand East Region's strategic project of "Territorial Manufacture", France.* Eléonore Hauptmann **(Université Paris I - Panthéon-Sorbonne)**
- 14:15-14:45: *Redefining and reframing a city: co-designing a new city model in Venice.* Daniela Pavan, Cinzia Colapinto,Vladi Finotto, Fabio Pranovi **(University of Ca' Foscari)**
- 14:45-15:15: *Collective knowledge management in city planning: Building spatial-cognition ontologies from literary.* Maria Rosaria Stufano Melone **(Politecnico di Bari)**

☕🍽**15:15 – 15:45 Break** ☕🍽

Parallel session 4
Zoom link:

DESIGN THEORY AND DESIGN METHODS
Chair: Chris McMahon/ Chat moderator: Chipten Valibhay

12:00-15:15

- 12:00-12:30: *Design benevolence value in digital services: A Case Study of COVID-19.* He Li, Federico Tajariol (**Université de Franche-Comté)**
- 12:30-13:00: *Embodied cognition of entrepreneurial value creation - a multi-modal study of discursive and material metaphors in ideation workshops.* Dirk Schneckenberg **(Rennes School of Business)**
- 13:00-13:30: *Generative abilities of a mock-up toolkit in co-design.* Aliénor Morvan, Stéphane Safin, Françoise Détienne (**Telecom Paris)**

☕🍽 **13:30 – 13:45 break** ☕🍽

- 13:45-14:15: *Product Development using 3D Printing Technology.* Sharifu Ura, Tomoya Kimura, Lukita Dea Kutari **(Kitami Institute of Technology)**
- 14:15-14:45: *Virtual Universe to explore the unknown.* Santha Kunjappy John Jacob **(Aix Marseille Université)**
- 14:45-15:15: How to get a good idea in three steps. Barbara Tversky (**Stanford University)**

☕🍽**15:15 – 15:45 Break** ☕🍽

<table>
<tr><td colspan="2" align="center">Parallel session 5
Zoom link:</td></tr>
<tr><td rowspan="2">12:00-15:15</td><td>

DESIGN THEORY AND COGNITION
Chair: John Gero / Chat moderator: Justine Boudier

- 12:00-12:30: *Triple Process Theory meets Design Theory: Exploring Reflexive, Deliberate and Metacognitive Brain Activity in Design.* Sonia Vieira **(Politecnico di Milano)** Udo Kannengiesser **(Johannes Kepler University Linz)** Mathias Benedek **(Karl-Franzens-Universität Graz)**
- 12:30-13:00: *Hemispheric Asymmetry in Prefrontal Cortex for Design Problem Solving (or whatever happened to the left-brain engineer and the right-brain architect?).* Vinod Goel (**York University**)
- 13:00-13:30: *An Elementary Model for Metacognition in Design and Computational Results.* Marija Majda Perišić (**University of Zagreb**) Mario Štorga **(University of Zagreb, Luleå University of Technology)** John Gero **(University of North Carolina at Charlotte)**

☕🍽 **13:30 – 13:45 break** ☕

- 13:45-14:15: *Measuring the structure and temporal evolution of the design space.* Julie Milovanovic, John Gero (**University of North Carolina at Charlotte)**
- 14:15-14:45: *What happens in the brain when designers generate concepts using TRIZ?* John Gero, Julie Milovanovic **(University of North Carolina at Charlotte)** Mo Hu, Tripp Shealy **(Virginia Tech)**
- 14:45-15:15: Abstrac*ting and formalizing the design co-evolution model.* John Gero **(University of North Carolina at Charlotte)** Udo Kannengiesser (**Johannes Kepler University Linz**) Nathan Crilly **(University of Cambridge)**

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☕🍽**15:15 – 15:45 Break** ☕🍽

	Parallel session 6 Zoom link:
12:00-15:15	**DESIGN THEORY AND ECOSYSTEMS** *Chair: Benoit Weil / Chat moderator: Antoine Bordas* • 12:00-12:30: *Experimenting a Meta-method for Generic Societal Design Engineering: The Making of 21th Century Constitutional Things*. Patrick Corsi **(IKBM Sprl, Brussels)**, Jacques De Gerlache **(GreenFacts & Institut Paul Lambin, Brussels)** • 12:30-13:00: *Exploring Industry 4.0: Preliminary Design Theory Implications*. Rebecca Castagnoli **(University of Turin)** Julie Stal-Le Cardinal **(Université Paris-Saclay)** Giacomo Büchi (Monica Cugno **(University of Turin)** • 13:00-13:30: *Measuring Innovation and Innovativeness - A data-mining approach*. Bernard Sinclair-Desgagné (**GREDEG**) ☕🍽 **13:30 – 13:45 break** ☕🍽 • 13:45-14:15: *On the incompleteness of AI in complex systems and designing for incompleteness*. *Gunnar* Holmberg (**Linköping University and Saab AB),** Nicolette Lakemond **(Linköping University)** • 14:15-14:45: *Path dependency and ethical decision making in the development of complex products*. Claudia Eckert **(Open University)**

☕🍽**15:15 – 15:45 Break** ☕🍽

	Parallel session 7 Zoom link:
12:00-15:15	## DESIGN THEORY AND MEDIUMS OF DESIGN *Chair : Annie Gentes / Chat moderator: Annie's thesard* • *The Design Turn for the Management of Public Relations: Emerging Challenges for Communication Professionals using Design Practices.* Niklas Henke, Fabienne Martin-Juchat **(Université Grenoble Alpes)** • *Simulation by Design, a strategy to envision implications of emerging technologies through experience*. Ioana Ocnarescu **(Strate Ecole de Design)** • *Singular Artwork, Multiple Medium(s).* Anitra Lourie, Ambre Charpier **(Université Paris I - Panthéon-Sorbonne, Télécom ParisTech)** ☕🍽 **13:30 – 13:45 break** ☕🍽 • *A dialogue between the "transformative practices" approach and the "transactional approach to design.* Manuel Zacklad **(CNAM)** • *From a concept centered theory of design to a media centered theory of design*. Annie Gentes **(CY Cergy Paris Université)** • *Involving healthcare professionals in the co-design process: How to build communicational sensitivity?* Marie-Julie Catoir-Brisson **(Audencia Business School, Université de Nîmes),** Sylvie Grosjean **(Université d'Ottawa),** Dany Baillargeon **(Université de Sherbrooke, Centre De Recherche sur le Vieillissement)** • *Design as posture: Developing enlightened subjectivity with the philosophy of Yoga.* Estelle Berger **(Strate Ecole de Design)**

☕🍽**15:15 – 15:45 Break** ☕🍽

Tuesday, February 1ˢᵗ

Zoom link

Plenary Session: design theory the management of defixation
Chair: Benoit Weil / Chat moderator: Alix Deval

15:45-16:30	Lock-in, fixation and the extinction of technologies: a design-theoretic view of sustainable transitions	Eswaran SUBRAHMANIAN **(CMU)** Yoram REICH **(Tel Aviv University)** Chris McMahon **(University of Bristol)**
16:30-17:15	Games and Simulation: how designing the exercise shape reality	Sebastiaan MEIJER **(KTH Royal Institute of Technology)**

☕🍽️17:15 – 17:30 Break ☕🍽️

Plenary Session: design theory and engineering design
Chair: Eswaran Subrahmanian / Chat moderator: John Levesque

17:30-18:15	The Archimedes Code: A Dialogue between Science, Practice, Design Theory, and Systems Engineering	Yoram REICH **(Tel Aviv University**
18:15-19:00	Design Theory and the Positioning of Engineering Design	Claudia ECKERT **(Open University)** Georges Fadel **(Clemson University)** Chris McMahon **(University of Bristol)**

Chair: Eswaran Subrahmanian	
19 :00	Closing and Future Program