Final Programme

For an overview and details of the sessions of ICED23, you may want to select a date or location to show sessions on that day or location only. You might also like to select a single session for details on papers in the respective session, with paper titles, abstracts, and authors.

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Session Overview

Date: Monday, 24/July/2023

8:30am – 9:30am — W&R: Welcome and Registration

9:30am – 12:30pm

SIG 1-01: Data-Informed Design	SIG 1-02: Design Creativity	SIG 1-03: Design Practice	SIG 1-04: Decision Making	SIG 1-06: Design Processes	SIG 1-06: Health Design	SIG 1-07: Robust Design	SIG 1-08: New Initiative
Location: Bât C – RDC: Salle C2 – 004	Location: Bât C – Ter étage: Salle C2 – 106	Location: Bât C – Ter étage: Salle C2 – 216	Location: Bât C – Ter étage: Salle C2 – 121	Location: Bât C – Ter étage: Salle C2 – 114	Location: Bât C – RDC: Salle C2 – 002		Location: Bât C – RDC: Salle C2 – 003
Data-Informed Design	Design Creativity	Design Practice	Decision Making	Design Processes	Health Design	Robust Design	New Initiative
Data-Informed Design in practice	Encouraging creativity through effective feedback to ideas	AI technology as support in Early Phase Design	Supporting the choices of embedded sensors in the product design process	Current trends and trends in design process modelling and management	Health Systems Resilience by Design	Design Research for achieving product robustness	Design Research for achieving product robustness
Kostas Stylidis, Bastian Gudtelhausen, Cyriel Diels, Florian Konrad, Julia Orlovska	Mayu Akaki, Akane Matsumae, Quentin Ehrlich	Mohsen Moghaddam, Tucker J. Marion, Gia Isaksson	Camille Jean, Julie Le Cardinal	Kilian Gericke, Claudia Eckert, Dietmar Wallisch	Anja Maier, Maaike Kleinsmann, John Clarkson	Tobias Eifler, Benjamin Schleich, Felician Campean, Stephan Husung	Markus Zimmermann

12:30pm – 1:45pm — LB 01: Lunch Break

1:45pm – 4:45pm

PHD 01: PhD Forum	SIG 2-01: Design Theory	SIG 2-02: Human Behaviour in Design	SIG 2-03: Design of Product-Service Systems	SIG 2-04: Collaborative Design	SIG 2-05: Chapter Africa Design	SIG 2-06: Design Practice	SIG 2-07: Design for Additive Manufacturing
Location: Bât C – RDC: Salle C2 – 001	Location: Bât C – Ter étage: Salle C2 – 106	Location: Bât C – Ter étage: Salle C2 – 114	Location: Bât C – 2ème étage: Salle C2 – 216	Location: Bât C – 2ème étage: Salle C2 – 105	Location: Bât C – Ter étage: Salle C2 – 105	Location: Bât C – RDC: Salle C2 – 002	Location: Bât C – Salle C2 – 004
Chair: Philip Cash, DTU Technical University of Denmark, Denmark. Chair: Emmanuel Caillaud, University of Strasbourg, France	Design Theory	Human Behaviour in Design	Sustainability Design	Collaborative Design	Chapter Africa Design	Design Practice	Design for Additive Manufacturing
	Design Theory to face grand challenges	Design in a Complex World - Bridging capacities: Supporting exploration and learning from complex systemic challenges	Investigating and fostering education in sustainable design	Value of Design of Product-Service Systems	Towards Creating a Design Society African Chapter	An interactive experiment to investigate a fundamental concept that defines collaborative design 2.0	Leveraging Data-Driven Design Methods to Support Complex and Multidisciplinary Design Scenarios in Additive Manufacturing
	Pascal Le Masson, Eswaran Subrahmanian	Yvonne Eriksson, Ulrika Florin, Karolina Uggla	Yun Borgianni, Sophia Halstedt, Elu Du Bois, Jeremy Faludi, Tatiana Reyes	Extended Reality (XR) - technologies for PSS design	Bernard Shibwabo, Richie Moalosi, Samuel Boahen, Peter Dvorak, Panus Papelambros, Mugendi K. M'Rithaa, Suzanne Wilson, Margareta Norell Bergendahl, June Madete Kenyatta	Ian Whitfield, Ross Brisco, Dorothy Evans, Avril Thomson	Tino Stankovic, Nicholas Meisel, Serena Graziosi
				Giulia Wally Scurati, Marco Bertoni, Carl Toller Melen, Tobias Larsson, Francesco Ferrise, Monica Bordegoni			

5:00pm – 6:30pm — OUT 01: Outreach of DS to GOV and INDUSTRY — Location: Bât A – RDC: Amphi BERNARD — Discuss a proposal that DS organizes an outreach activity to facilitate dialogue between industry, academia and government

6:30pm — YME 01: Young Member Event — Location: Bât H – RDC: Amphi ASSELAIN — Chair: Kristin Paetzold, TU Dresden, Germany. Chair: Lou Grimal, Université de Technologie de Troyes, France.

Date: Tuesday, 25/July/2023

9:00am – 9:45am — OC: Opening Ceremony — Location: Bât D – RDC: Amphi AUBY

9:45am – 10:30am — KN 01: Keynote: Complexity and System Design — Location: Bât D – RDC: Amphi AUBY — Chair: Anja Maier
Complexity and System Design
Olivier de Weck, MIT, United States of America

10:30am – 11:00am — CB 01: Coffee Break

11:00am – 12:30pm

P - AM 01: Architecture and New Materials	P - DE 01: Design Education and Training	P - DW 02: Gaining Design Experience	P - DW 01: AI enhanced design processes	P - I&S 01: Design of Complex Systems	P - IBM 01: 3D Printing Design	P - S&R 01: Strategy & Sustainable Design	P - S&R 02: Circular Product Design	P - SD 01: Systems Engineering	P - SD 02: Virtual Interface Design
Location: Bât C - RDC: Salle C2 - 004	Location: Bât C - RDC: Salle C2 - 001	Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - Ter étage: Salle C2 - 216	Location: Bât C - 2ème étage: Salle C2 - 216	Location: Bât C - RDC: Salle C2 - 002	Location: Bât H - RDC: Amphi ASSELAIN	Location: Bât C - 2ème étage: Salle C2 - 105	Location: Bât C - RDC: Salle C2 - 003	Location: Bât C - Ter étage: Salle C2 - 114
Chair: Serena Graziosi	Chair: Mickael Gardoni	Chair: Anja Maier	Chair: Christopher McComb	Chair: Steven Eppinger	Chair: Chris Snider	Chair: Sophie Hallstedt	Chair: Daniela Pigosso	Chair: Ola Isaksson	Chair: Stephan Husung

12:30pm – 1:45pm — LB 02: Lunch Break

1:45pm – 2:30pm — KN 02: Keynote: Towards an integrative approach to the study of a protected natural environment: The Lascaux Cave — Location: Bât D - RDC: Amphi AUBY — Chair: Claudia Eckert
Towards an integrative approach to the study of a protected natural environment: The Lascaux Cave
Delphine Lacanette, Bordeaux INP, France
Colette Sirieix, University of Bordeaux, France

2:30pm – 3:30pm

D - H&W 01: Empathy and Design Cognition	D - DW 02: Review of the State of the Art of Data Applications	D - H&W 01: Supporting Patients	D - IBM 01: Prototyping in Design	D - IBM 02: Applications of Additive Manufacturing	D - DW 03: Working with Digital Tools	D - SC 01: Design for DIY & Repairability	D - SD 02: Sustainable and Risk Design	D - SD 03: Research Methods	
Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - RDC: Salle C2 - 216	Location: Bât C - RDC: Salle C2 - 002	Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - 2ème étage: Salle C2 - 105	Location: Bât C - Ter étage: Salle C2 - 114	Location: Bât C - RDC: Salle C2 - 001	Location: Bât H - RDC: Amphi ASSELAIN	Location: Bât C - RDC: Salle C2 - 003	
Chair: G. Rez de jardin: Amphi MANON CORMIER. Chair: Katja Thoring	Chair: Massimo Panarotto	Chair: Anja Maier	Chair: Gordon Krauss	Chair: Roland Lachmayer	Chair: Jonathan Cagan	Chair: Francesco Ferrise	Chair: Yuri Borgianni	Chair: Tobias Eifler	

3:30pm – 4:00pm — CB 02: Coffee Break

4:00pm – 6:00pm

P - DC 01: Design Cognition	P - DW 03: Human Factor and Design	P - DW 04: Generative Design for Engineering	P - H&W 02: Methods and Processes for Medical Design	P - HB 02: Agile Systems Development	P - I&S 02: Advancements in Systems Engineering 1	P - I&S 02: Design Innovation	P - M&P 02: Design Validation	P - S&R 03: Addressing Sustainability Challenges in Design	P - SD 04: Product Architecture Design 1 - Applications
Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - RDC: Salle C2 - 001	Location: Bât C - Ter étage: Salle C2 - 216	Location: Bât C - RDC: Salle C2 - 002	Location: Bât C - Ter étage: Salle C2 - 114	Location: Bât C - 2ème étage: Salle C2 - 216	Location: Bât C - RDC: Salle C3 - 002	Location: Bât C - 2ème étage: Salle C2 - 105	Location: Bât A - RDC: Amphi BENZACAR	Location: Bât G - Rez de jardin: Amphi MANON CORMIER
Chair: Joshua Summers	Chair: John Gero	Chair: Georg Hackenberg	Chair: Christophe Merlo	Chair: Bryan Howell	Chair: Sandro Wartzack	Chair: Gaetano Cascini	Chair: Andreas Hein	Chair: Elies Dekoninck	Chair: Dieter Krause

7:00pm – 9:00pm — REC: Reception at Town Hall

Date: Wednesday, 26/July/2023

9:00am – 9:45am — KN 03: Keynote: The challenge of preserving and improving the quality of wines in a changing context — Location: Bât D - RDC: Amphi AUBY — Chair: Pascal Le Masson
The challenge of preserving and improving the quality of wines in a changing context
Philippe Darriet, University of Bordeaux, France

9:45am – 10:45am

D - AM 02: Additive Manufacturing	D - AM 03: Data Driven Applications	D - DE 04: Hybrid Education	D - DW 06: Practical Applications of Data Driven Design	D - H&W 03: Supporting Specific Medical Conditions	D - IBM 03: Design Support	D - IBM 04: The Virtual and the Physical	D - M&P 03: Applications in Design Modeling	D - S&R 04: Circular Design of Packaging	D - S&R 05: Product Lifecycle Management
Location: Bât A - RDC: Amphi BERNARD	Location: Bât C - Ter étage: Salle C2 - 114	Location: Bât G - Rez de jardin: Amphi MANON CORMIER	Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - RDC: Salle C2 - 002	Location: Bât C - RDC: Salle C2 - 004	Location: Bât C - RDC: Salle C3 - 002	Location: Bât A - RDC: Amphi BENZACAR	Location: Bât C - 2ème étage: Salle C2 - 105	Location: Bât C - 2ème étage: Salle C2 - 216
Chair: Tino Stankovic	Chair: Kevin Otto	Chair: Claudia Rastecombe	Chair: Nikola Bursac	Chair: Jonathan Borg	Chair: Christopher McMahon	Chair: Larry Stauffer	Chair: Alison McKay	Chair: Frida Smulders	Chair: Francois Cluzel

10:45am – 11:15am — CB 03: Coffee Break

11:15am – 12:45pm

P - DE 05: Educating and Learning Design	P - DW 06: VR-Enhanced Design	P - H&W 04: Medical Design	P - HB 04: Cognitive Processes in Design	P - HB 05: Human in Behaviour in Design	P - S&R 06: Designing for the Circular Economy	P - SD 05: Design Theories and Approaches	P - SD 06: Product Architecture Design 2 - Analysing Modularity and Impact Effects	P - SD 07: Robust Design & Tolerance Management
Location: Bât C - RDC: Salle C2 - 001	Location: Bât C - RDC: Salle C2 - 106	Location: Bât C - 2ème étage: Salle C2 - 002	Location: Bât C - RDC: Salle C2 - 216	Location: Bât H - RDC: Amphi ASSELAIN	Location: Bât A - RDC: Amphi BENZACAR	Location: Bât C - 2ème étage: Salle C2 - 216	Location: Bât C - RDC: Salle C3 - 001	Location: Bât C - Ter étage: Salle C2 - 114
Chair: Ross Brisco	Chair: Romain Pinquié	Chair: Mark Storga	Chair: Flore Vallet	Chair: Jeffrey Herrmann	Chair: Marco Bertoni	Chair: Alessandro Bertoni	Chair: Alexander 'Freddie' Holliman	Chair: Marija Jankovic / Chair: Scott Ferguson

12:30pm – 1:45pm — MIP 01: Mentoring Programme Event (Hybrid) — Location: Bât C - RDC: Salle C2 - 001 — Chair: Julie Stal-Le Cardinal. Chair: Sophie Hallstedt

12:45pm – 2:00pm — LB 03: Lunch Break

2:00pm – 2:45pm — KN 04: Keynote: The 4th industrial revolution: myth or reality — Location: Bât D - RDC: Amphi AUBY — Chair: Christopher McMahon
The 4th industrial revolution: myth or reality
Daniel Harari, LECTRA, France

2:48pm – 3:45pm

D - DC 02: Creativity and Collaboration	D - DE 06: Teaching Examples & Experiments	D - DW 07: Specific Applications Of AI	D - DW 08: Enhancements in CAD	D - M&P 04: Design Methods and Teams	D - S&R 08: Sustainable Design	D - S&R 09: Encouraging & Circular Design	D - SD 08: Industry Challenges and Applications	D - SD 09: Design for X Applications
Location: Bât C - RDC: Salle C3 - 002	Location: Bât G - Rez de jardin: Amphi MANON CORMIER	Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - RDC: Salle C2 - 001	Location: Bât C - RDC: Salle C2 - 002	Location: Bât A - RDC: Amphi BENZACAR	Location: Bât C - 2ème étage: Salle C2 - 216	Location: Bât C - RDC: Salle C3 - 001	Location: Bât C - 2ème étage: Salle C2 - 216
Chair: Julie Stal-Le Cardinal	Chair: Lucienne Blessing	Chair: Benjamin Schleich	Chair: Mohsen Moghaddam	Chair: Petra Badke-Schaub	Chair: Nadège Troussier	Chair: Harrison Kim	Chair: Markus Zimmermann	Chair: Dietmar Gohlich

4:00pm — GM: General Meeting DS — Location: Bât H - RDC: Amphi ASSELAIN

7:30pm – 11:59pm — GD: Gala Dinner — Location: Hangar 14

Date: Thursday, 27/July/2023

9:00am – 9:45am — KN 05: Keynote: Design for circular economy: application to outdoor sports products — Location: Bât D - RDC: Amphi AUBY — Chair: Tim McAloone
Design for circular economy: application to outdoor sports products
Benoît Jeulin, DECATHLON, France

9:45am – 10:45am

D - DW 09: AI Applications for Requirements	D - H&W 05: Digital Support for Design Application	D - IBM 05: Intangible Aspects of Wellbeing	D - M&P 05: Design Methods	D - M&P 06: Designer Cognitive Loads	D - S&R 09: Stakeholder Value in Circular Systems	D - SC 04: Design Practice and Empathy	D - SC 05: Understanding Design and Experience	D - SD 09: Product Architecture Design 3 - Configurable Products
Location: Bât C - RDC: Salle C3 - 002	Location: Bât C - Ter étage: Salle C2 - 114	Location: Bât A - RDC: Amphi BERNARD	Location: Bât A - RDC: Amphi BENZACAR	Location: Bât C - RDC: Salle C2 - 216	Location: Bât H - RDC: Amphi ASSELAIN	Location: Bât G - Rez de jardin: Amphi MANON CORMIER	Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - RDC: Salle C3 - 001
Chair: Beshoy Morkos	Chair: Shigeru Wesugi	Chair: Beata Bender	Chair: Stanko Skec	Chair: Hideyoshi Yanagisawa	Chair: Bernard Yannou	Chair: Francesca Montagna	Chair: Philippe Girard	Chair: Matthias Kreimeyer

10:45am – 11:15am — CB 08: Marketplace and Coffee Break — Location: Bât D - Forum Area

11:15am – 12:45pm

P - DE 07: Project Planning and Execution	P - DW 11: AI / VR for CAD applications	P - HB 06: Design of Intangible Aspects in Health and Wellbeing	P - IBM 05: Prototyping in Design	P - IBM 06: Knowledge Management	P - M&P 07: Examples in Design Optimization	P - S&R 10: Designing the Sustainable Transition - Strategy & Policy	P - SC 06: User Behaviour and Design	P - SD 10: Design Theories and Approaches	P - SD 12: Product and System Modelling
Location: Bât C - RDC: Salle C2 - 001	Location: Bât C - RDC: Salle C2 - 002	Location: Bât C - 2ème étage: Salle C2 - 308	Location: Bât C - RDC: Salle C2 - 216	Location: Bât A - RDC: Amphi BERNARD	Location: Bât C - Ter étage: Salle C2 - 216	Location: Bât A - RDC: Amphi BENZACAR	Location: Bât C - 2ème étage: Salle C2 - 106	Location: Bât A - RDC: Amphi BERNARD	Location: Bât C - Ter étage: Salle C2 - 114
Chair: Kilian Gericke	Chair: Matthias Guertler	Chair: Anna Ohrwall Rönnback	Chair: Wendy Zhang	Chair: Saeema Ahmed-Kristensen	Chair: Felician Campean	Chair: Akane Matsumae	Chair: Tua A. Björklund	Chair: John Gero	Chair: Ali Yassine

12:45pm – 2:00pm — LB 04: Marketplace and Lunch Break — Location: Bât D - Forum Area

2:00pm – 3:00pm

D - DC 03: Creativity in Context	D - DE 08: Challenges in Design Education	D - DW 12: Design Processes	D - HB 08: Teamwork in Design	D - I&S 04: Model-Based Systems Engineering	D - S&R 11: Sustainable Design	D - SD 12: Digital Interfaces and Interaction
Location: Bât C - RDC: Salle C3 - 001	Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - RDC: Salle C2 - 216	Location: Bât C - Ter étage: Salle C2 - 114	Location: Bât A - RDC: Amphi BERNARD	Location: Bât C - RDC: Salle C3 - 002	Location: Bât C - RDC: Salle C3 - 001
Chair: Hernan Casakin	Chair: Carlye Lauff / Chair: Anne Lauff	Chair: Johan Malmqvist	Chair: Stan Hicks	Chair: Michael Kokkolaras	Chair: Ken Whitfield	Chair: Josef Oehmen

3:00pm – 3:30pm — CB 06: Marketplace and Coffee Break — Location: Bât D - Forum Area

3:30pm – 4:30pm

D - DE 09: Collaboration, Ideation and Sustainability	D - DE 12: Machine Learning in Design	D - H&W 07: Enhancing Wellbeing in Specific Contexts	D - I&S 05: Advancements in Systems Engineering 2	D - IBM 06: Resilience Life Cycle Assessment	D - I&S 13: Sustainability and Resilience - Life Cycle Assessment	D - SD 13: Product and System Modelling 2
Location: Bât A - RDC: Amphi ASSELAIN	Location: Bât A - RDC: Amphi BERNARD	Location: Bât C - Ter étage: Salle C2 - 106	Location: Bât C - RDC: Salle C3 - 001	Location: Bât C - Ter étage: Salle C2 - 114	Location: Bât C - RDC: Salle C3 - 002	Location: Bât C - RDC: Salle C3 - 001
Chair: Niccolò Becattini	Chair: Ji Han	Chair: Monica Bordegoni	Chair: Eswaran Subrahmanian	Chair: Clement Fortin	Chair: Boris Eisenbart	

4:48pm — KN 06: Keynote: Images of Design Research: Reflections from our new DS Fellows — Location: Bât D - RDC: Amphi AUBY — Chair: Benoit Eynard

5:15pm – 5:45pm — CC: Closing Ceremony — Location: Bât D - RDC: Amphi AUBY

6:00pm – 7:00pm — FW: Farewell Party — Location: Talence Peloncho: tram stop Béthanie
NEW: Tram station stop BETHANIE is better than Tram station stop PEIXOTTO(RI)

Date: Friday, 28/July/2023

8:15am – 12:30pm

IV 01: Industrial Visit - Lectra	IV 02: Industrial Visit - Chaban Delmas Bridge	IV 03: Industrial Visit - Construction Navale Bordeaux

9:30am – 11:30am — IDA 01: Panel Discussion on Digital Solutions for Design Education — Location: Bât H - RDC: Amphi ASSELAIN — Chair: Ross Brisco, University fo Strathclyde, United Kingdom. Chair: Lionel Roucoules, Arts et Métiers, Institute of Technology, France

9:30am – 12:30pm — IDA 02: Workshop on Sustainable Innovation — Location: Bât C - Ter étage: Salle C2 - 106 — Chair: Flora Vallet, IRT SystemX, France. Chair: Francois Cluzel, CentraleSupélec, Université Paris-Saclay, France. Chair: Benjamin Tyl, APESA - Centre technologique au service des transitions, France