

17th INTERNATIONAL DESIGN CONFERENCE - MAY 23-26, 2022 - CAVTAT, DUBROVNIK, CROATIA

systems design

DESIGN SUPPORT TOOLS AND METHODS Configuration and modularisation Design for additive manufacturing PDM/PLM Requirements and change management Usage and integration of supportive technologies		DESIGN INFORMATION AND KNOWLEDGE Representations of information and knowledge Decision-making rationale and support Knowledge-intensive design Knowledge-based engineering Emerging IT technologies in knowledge management	HUMAN BEHAVIOUR IN DESIGN Human factors in design Designer's attitudes and skills Design thinking Design cognition and problem-solving Designer's activity	DESIGN RESEARC Multidisciplin approaches Design theor Experimenta Design typol New infrastr design resear
			ESIGN2C	
SYSTEMS ENGINEERING And DESIGN Architecting complex engineering systems Simulation within complex systems Model-based systems engineering (MBSE) Cyber-physical systems design	DESIGN ORGANISATION AND MANAGEMEN Organisational and design processes Product development models and strategies Market and business implications	Artificial intelligence in product development Generative design and topological optimisation Data-driven design process Knowledge discovery	DESIGN CREATIVITY Creative design processes Cognitive processes in design creativity Supporting design creativity and innovation Creativity assessment and measurement	COLLABC DESIGN Design teams Design comm collaborative Co-design Multidisciplin. Transdisciplin. Open/Social i
Approaches to socio-technical systems design	Global product development	and data mining in design Smart systems for Industry 4.0	Bioinspired design	spen securi

Agile management

IGN THEORY AND EARCH METHODS

disciplinary research aches theories and models imental design research n typology infrastructure for research

ENGINEERING **DESIGN PRACTICE**

and CAD

virtualisation

from industry

Geometrical modelling

Simulation-based design

Case studies of design

methods application

Best design practices

Advanced visualisation and

DESIGN FOR SUSTAINABILITY

Sustainability awareness Design for social equity and cohesion Design for circular

economy Technology and sustainable society

Product-service systems

teams communication and rative processes ign isciplinary/Interdisciplinary/ isciplinary collaboration Social innovation

LABORATIVE

DESIGN FOR HEALTHCARE

Healthcare ecosystems Healthcare design Healthcare services Use of advanced technologies in healthcare Life sciences and design

DESIGN EDUCATION

Competency development Digital learning and ICT in education Project-based learning Adopting different teaching and learning environments Lifelong and organisational learning

By tradition, DESIGN Conference is a forum for discussion and further development of design knowledge from cognition and philosophy to methods and tools, from research theory to practice.

The transition from known and comfortable to unknown and challenging is ubiquitous. It is challenging every aspect of our being. How can design research and practice respond to changes, influence wellness, ensure sustainable development, reimagine the future, rethink the product design and development?

How to improve design methodologies, tools, projects, and processes? How to develop products and services to make the world a healthier place? Which competencies, information, and communication technologies are needed? What is the impact on everyday design work? Which social and legal issues should be considered? How will we teach future designers, communicate ideas and share knowledge? How to adapt to the new normal?

Applied, theoretical, and resultsoriented papers from academia and industry, based on thorough analysis or argumentation, will be considered for the conference programme. The submitted papers should fit into one of the proposed conference topics. It is expected that these specific topics are extensive and nonexhaustive.

A list of examples is added to illustrate the core topics. It is required explicitly from all contributors to show how they contribute to the overall research within these areas. A detailed description of topics and instructions for online submission is available at www.designconference.org.

Programme chairs welcome the high-quality submissions covering substantial, original, and previously unpublished research.

Rigour academic research should provide designers with the next generation of methods and tools appropriate to the demands. The DESIGN Conference provides an interactive environment where participants proactively create opportunities to share design knowledge and new cross-disciplinary research that leads to innovation.

PLENARY SESSIONS

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The new ideas and visions will be presented by the keynote speakers.

TOPIC ORIENTED SESSIONS

• Will host papers selected around common research questions in order to foster discussion.

WORKSHOPS

DESIGN 2022 workshops will promote integration of different views, approaches and methods. Workshop coordinators could invite selected presentations and demonstrations in order to stimulate the debate as well as to propose any format of delivery that inspires interaction. The workshops will be organised on the 23rd of May.

PHD STUDENTS' FORUM

The forum will be a unique opportunity for younger researchers and PhD students

to discuss their research questions and ideas with experienced researchers, practitioners and R&D managers in order to facilitate their research efforts.

THE DESIGN DEBATE

The purpose of the design debate is to investigate in a forensic manner some key topics that affect the engineering design research community. Two opponents and the debate moderator will be distinguished key players in the community presenting evidence for or against a particular topic.

INDUSTRIAL FORUM

The industrial forum will be an opportunity to discuss industrial views, needs and expectations of design research, tracing emerging trends in industrial innovation and the right strategies for a sustainable future. The forum will offer a platform for debate among decision makers, practitioners and academics about the future of design research, needs and expectations.

REVIEWING POLICY

The papers will be accepted on the double-blind review basis made by the members of the Scientific Advisory Board.

The review criteria will be the novelty and level of contribution, validity of conclusions, industrial or application perspective and formal qualities of the contribution.

DESIGN Conference papers are published online at Cambridge Core Journals pages as: Proceedings of the Design Society: DESIGN Conference. All papers are indexed in SCOPUS and WOS - CPCI and referenced in CrossRef with DOI identifier.

Selected papers will be recommended for publication in international journals.

STEP

Full paper submission deadline November 15, 2021

STEP 02 Final acceptance of papers **February 1, 2022**

STEP

Publish-ready papers **February 25, 2022**



STEP

05

Final conference programme **April 2022**

DESIGN 2022 CONFERENCE May 23-26, 2022

PROGRAMME CHAIRS

P. John Clarkson University of Cambridge, GBR

Tim McAloone Technical University of Denmark, DNK

Julie Stal-Le Cardinal CentraleSupélec, FRA

Sandro Wartzack Friedrich-Alexander-University of Erlangen-Nuremberg, DEU

Mario Štorga University of Zagreb, HRV

Dorian Marjanović University of Zagreb, HRV

CONFERENCE VENUE

Hotel Croatia Cavtat Frankopanska ul. 10, 20210 Cavtat, Croatia

ORGANISING SECRETARIAT CONTACT

FSB

حمط امك

Faculty of Mechanical Engineering and Naval Architecture 10000 Zagreb, I. Lučića 5, CROATIA Phone: +385 1 6168 432

design2022@fsb.hr www.designconference.org



