

Temes de Disseny #35 Artificial Intelligence and emerging digital technologies as design material



CALL
FOR
AUTHORS
#35

Special Issue

Artificial Intelligence and emerging digital technologies
as design material

Keywords

Design / Artificial Intelligence/ Emerging Digital
Technologies

Areas of interest

Intelligent Systems and New Challenges for Design /
New Design Methodologies / Design of Smart Devices /
Designing Autonomous Objects / Machine Learning /
Human Computer Interaction / UX for AI Systems /
UX for Machine Learning Systems / Data Driven Design /
Anthropology/ Design Politics / Digital industries /
Big Data / Augmented and Virtual Realities / Ethics /
Automated Production / Digital Design Skills

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Temes de Disseny (Topics on Design, hereinafter TdD, in its Catalan acronym) started in 1986 as one of the first design local journals written in Catalan. It was created with the goal of being a knowledge transfer channel between design professionals, pedagogues and scholars. TdD aims to bring together knowledge generated by experts from multiple disciplines, who study design from distinct points of view. Each journal edition intends to approach specific topics related to design, such as: design methodologies; innovation through design; indoor spaces and objects shapes; transmedia and macro- trends; design, food and health; visual communication or industrial design, among others. The 34th issue of the journal, was the first step towards transforming TdD in an open access, peer reviewed, indexed journal that locals and foreign designers can use to share their knowledge at an international level.

Call for Authors

As Artificial Intelligence is integrated in the design of everyday objects, services and systems under different forms and with different levels of agency, visibility and transparency several questions emerge for design practice. All these questions open up new research questions.

AI systems can exhibit increasing degrees of autonomy. These degrees of autonomy introduce a higher level of complexity in design in comparisons to other types of products, services and systems. The fact that besides this autonomy most AI systems operated within a network of other intelligent designed entities pose new challenges for design. The intelligibility of the designs once they are deployed introduces a special set of issues that have to do with interaction and usability beyond the current requirements and challenges of the field. Moreover, there are new ethical issues derived from the ability of AI systems to make decisions on their own. The ability to explain their behaviour and justify their goals in response to other users' request (this user being human or another AI system) introduces a new set of challenges, research questions, skills and practices in design. In particular it poses questions about the evaluation of the quality of the designed AI system and its adherence to ethical design values. All these aspects have to be addressed in several areas such as design research, design practices and design curricula.

Call for Authors

We call for papers (original journal articles, state-of-art reviews or design case studies) to gather knowledge regarding the following generic topics:

- New (digital) materials
- New hybrid practices
- New design skills
- New emerging aesthetics
- New ethical challenges
- New interactive possibilities
- New sustainable approaches

Several of the aspects currently that are being researched and develop under a design practices are:

- Service design, artificial intelligence and machine learning
- Designing from learned data
- Designing with systems that learn
- Multidevice behavior in intelligent systems
- The use of artificial intelligence systems in the practice of design
- The design of intelligence systems with a “human in the loop” vs. “human centric” design
- Posthuman design perspectives on artificial intelligence and machine learning
- The ethical challenges of the design of intelligent, autonomous systems
- Communication barriers between intelligent systems and their users
- Aspects of comprehensibility of the behavior intelligent systems’
- Designing for transparent intelligent systems
- Machine Learning from a design perspective
- Aspects of UX and intelligent systems
- Designing for fair and unbiased, non-discriminatory intelligent systems
- Artificial Intelligence and automated machines
- Designing AI-based tools for non-specialist users
- Digital Design Skills acquisition and development
- New methods for design in a world of AI-based learning systems
- Craftsmanship, production and emerging digital technologies
- Prototyping with artificial intelligence and machine learning systems

Type of papers and length

TdD publishes the following type of contributions:

Original research papers

Research papers which expose a hypothesis that is tested with a specific methodology and supported by results. A length between 3,000 and 8,000 words is recommended for original papers. (Footnotes, references and bibliography are not included in this word count)

State-of-art papers

State-of-art papers collect the most recent information (i.e. methods, case-studies, product examples) of a specific topic. These are expected to provide more than 50 literature references which are properly discussed to identify future challenges. At least 75% of the literature must have been published after 2010. A length between 4,000 and 12,000 words is recommended but not mandatory.

Case studies papers

Case study papers aims to collect and properly describe multiple experiences examples of a specific topic. These must remark the strengths and weaknesses of the examples. A length between 3,000 and 8,000 words is recommended for case study papers. Pictures of the different case studies are mandatory. It is recommended to classify properly the case studies.

Pictorials

Pictorials are illustrated capsules that presents a design project, a workshop or a research process with a strong focus on images or illustrations. Each image or set of images should be accompanied by descriptive texts that puts them in context as well as describing what are they showing (aesthetics, processes, materials, concepts, results...). For each set a length of 200 words is recommended. Pictorials should also provide an introduction of the project and the concluding remarks of its research process.

Submission Process and Requirements

Authors who want to publish their manuscript in the present TdD special issue must follow the following steps:

24 October 2018

Authors must send an extended abstract to tdd@elisava.net. The abstract should be between 800-1200 words, and must be delivered using the provided template.

21 November 2018

The editorial team will communicate if the proposal is accepted.

09 January 2019

Authors must submit the manuscript of the article.

The submission will be assessed by independent reviewers –double blind peer review– who will suggest the suitability of the manuscript for its publication and will provide improvement suggestions for the authors.

Authors must then respond reviewers' comments, apply reviewers' comments into their manuscript and submit a reviewed version of the manuscript.

Ethics of publishing

Authors are responsible of presenting totally original works and must properly cite others work if used. Moreover, authors cannot submit and already published paper or submit a paper that have already been submitted to another journal which is still under a review process.

Authors are encouraged to acknowledge potential conflicts of interest and/or sources of funding by including a brief disclaimer at the end of the paper.

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Language

Authors are highly suggested to write and submit their manuscripts in English. However, with the aim to promote local authors' publications, Catalan and Spanish manuscripts will also be accepted.