

Explainable Knowledge in Computational Design, Media, and Teaching

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Preface

The main aim of the workshop is to track and examine the current trends of explanation-aware knowledge-based systems in research and development areas of creativity- and teaching-related domains such as computational design, e-learning, or open educational research systems. Technical issues of the workshop enclose topics such as:

- methods, algorithms, and data structures for explainable or explanation-aware knowledge-based support of design and media creation process
- intelligent organisation, formalization, initialization, distribution, and management of design or teaching material in case bases and databases
- computational models for interaction with users of the systems
- user behaviour examination during design or learning process with CBR or other AI technology

The workshop's target group are the researchers and students of research domains such a computational design and creativity, computer science for media and communication, information management, and other related fields.

This workshop welcomes contributions from researchers of all directions of research on knowledge-based approaches in design, creativity, and teaching activities. The submissions may include, but are not limited to, new algorithms for case-based design and media retrieval, knowledge-based methods for explainable decision support during different design phases, new data structures for open educational resources, design or teaching material generation, configuration, and interpretation with AI techniques, cognitive architectures for design and teaching tasks, and similar research disciplines. We particularly invite submissions of surveys and overviews of the existing approaches to get a comprehensive overview of the current status of the workshop topic.

Workshop Topics focus on:

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| • Case-based Design | • Case-based Design |
| • Computational Design | • Computational Design |
| • Open Educational Research | • Open Educational Research |
| • Cognitive Architectures | • Cognitive Architectures |
| • Explainable AI | • Explainable AI |
| • Explanation-aware Systems | • Explanation-aware Systems |
| • Case-based Design | • Explainable AI |

- Computational Design
- Open Educational Research

- Explanation-aware Systems
- Cognitive Architectures

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