

Welcome to the Fifth International Workshop on Learning from Other Disciplines for Requirements Engineering (D4RE'21)

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It is our pleasure to welcome you to the fifth edition of the International Workshop on Learning from other Disciplines for Requirements Engineering (D4RE'21). The workshop is co-located with the 29th IEEE International Conference on Requirements Engineering that is held virtually from September 20th to 24th hosted by the University of Notre Dame, South Bend, USA.

Motivation and Goal: The core motivation of the D4RE workshop series¹ is to bring together a diversity of people who are interested in discussing the question “**What can requirements engineering (RE) learn from other disciplines?**”. In the previous editions of the D4RE workshop, we gained valuable insights with regard to other disciplines and their synergy potential to RE during presentation sessions and interactive breakout sessions.

In this fifth edition we aim to further enrich our existing body of ideas and identify new synergies of non-SE disciplines with RE – in the best case *inspired by completely new disciplines such as building architecture, sports or psychology*.

The overall workshop topic and its intended outcomes are well in line with the themes of RE'21 such as “discover stakeholder needs”, “societal challenges”, or “smart and connected”. That is, in the context of the digital transformation it is essential for the RE community to provide suitable methods that enable gaining a deep understanding of the needs and fears as well as the social and living context of a diversity of stakeholders. To enrich the existing body of RE methods and techniques supporting these activities, it is surely beneficial looking across the boundaries of “traditional” RE approaches and get inspiration from other disciplines or professions.

Workshop History: The first successful edition of the D4RE workshop was collocated with RE'18 in Banff, Canada. Together with 15 participants, we selected three disciplines out of an existing body of ideas, namely journalism/writing, socializing, and law. In the breakout session, we discussed and elaborated ideas for new RE activities adapting best practices from the selected disciplines with the help of creativity techniques. Besides a visionary description of an adapted RE activity, we identified open issues, possible risks, and future research activities to shape the initial ideas for the RE activities.

The second edition was collocated with REFSQ'19 in Essen, Germany. In this workshop, a former police officer working as an RE consultant at that time gave the audience insights into the daily work of a police officer, sharing his experience in applying techniques such as profiling, crime scene investigation, as well as securing of evidence. Moreover, he shared his view on how RE elicitation techniques such as interviews and workshops could benefit from (psychological) questioning techniques typically applied during interrogations. These insights served as inspiration to the subsequent breakout session to elaborate ideas for new RE methods inspired by best practices from the police domain.

In the third edition, that was collocated with RE'19 in Jeju Island, South Korea, we further enriched our existing body of ideas and synergies between non-SE disciplines and RE, particularly inspired by famous characters or people acting in movies / TV series, or simply the discipline “fiction”.

In the fourth edition, that was organized as a virtual event collocated with RE'20 in Zurich, Switzerland, we examined the reverse synergy direction by discussing the question “What can other disciplines learn from RE?”. This edition was opened by an inspiring keynote given by Daniel Berry on “Lessons Learned from and for Requirements Engineering and Building Construction: A Case Study of Requirements Engineering for a Synagogue Kitchen with Use Cases and Scenarios” that was well in line with the workshop topic.

Workshop Program: Similar to the previous editions, the D4RE'21 workshop will be a one-day workshop organized into four sessions. The major part of the workshop will consist of interactive break-out sessions in which the participants will be guided by

¹ d4re.iese.fraunhofer.de

suitable (creativity) techniques and interview data of experts from other disciplines to collaboratively discuss and elaborate synergies between other disciplines and RE-related activities in working groups of 4-6 people. As inspiration to these breakout-sessions, the workshop program will be enriched by insights into results that have been achieved in the previous workshop editions. In addition to this overview, the authors Lukas Nagel and Oliver Karras will present their paper entitled “Keep Your Stakeholders Engaged: Interactive Vision Videos in Requirements Engineering”. In their research they learned and adopted findings from scientific literature in the field of e-learning in order to mitigate the passive role of stakeholders while watching vision videos during RE activities.

Committees: This fifth edition was organized by Anne Hess (Fraunhofer IESE, Germany), Marcus Trapp (Fraunhofer IESE, Germany), Oliver Karras (TIB - Leibniz Information Centre for Science and Technology, Germany), and Norbert Seyff (University of Applied Sciences and Arts Northwestern Switzerland & University of Zurich, Switzerland). We would like to thank all program committee members for their support and dedication regarding the valuable and timely paper reviews.

The program committee consisted of

- Chetan Arora, Deakin University Melbourne, Australia
- Daniel Berry, University of Waterloo, Canada
- Stan Buehne, IREB GmbH, Germany
- David Callele, University of Saskatchewan, Canada,
- Maya Daneva, University of Twente, Netherlands
- Andrea Herrmann, AKAD University Stuttgart, Germany
- Anne Hoffmann, Siemens Logistics GmbH, Germany
- Eric Knauss, Chalmers | University of Gothenburg, Sweden
- Matthias Koch, Fraunhofer IESE, Germany
- Barbara Paech, University of Heidelberg, Germany
- Yen Dieu Pham, University of Hamburg, Germany
- Christoph Settelen, informed innovation, Switzerland

We are also very grateful to the authors who submitted their ideas to the workshop. Last, but not least, our thanks go to the RE 2021 workshop chairs, particularly Tao Yue and Mehdi Mirakhorli, for their continuous support in organizing this workshop. We look forward to the workshop and hope that you will find the workshop results and proceedings inspiring and valuable.