

Welcome to the 3rd International Workshop on Learning from Other Disciplines for Requirements Engineering (D4RE'19)

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Abstract— The D4RE workshop brings together a diversity of people who are interested in discussing the question “What can requirements engineering learn from other disciplines?” The overall goal of the workshop is to collaborate with experts from non-SE disciplines in order to develop a body of best practices from these disciplines and identify possible synergies with RE. Moreover, we aim to raise awareness for this interesting topic in the RE community and foster future collaborations across the boundaries of requirements engineering and software engineering. In this third edition, we aim to further enrich our existing body of ideas and identify synergies between non-SE disciplines and RE, inspired by the special theme: “Learning from Fiction - What can RE learn from famous characters or people acting in movies / TV series?”

Index Terms—requirements engineering, lessons learned, challenges, other disciplines, best practices, synergies

Motivation and Goal: Have you ever imagined that best practices from non-SE disciplines with which you are familiar (e.g., from movies) or that you might even be using already in your daily life (e.g., in your leisure time when playing soccer or acting in a theater play) might be adaptable and transferable to the context of RE? This thought constitutes the core motivation of the D4RE workshop series, which is to answer the question “What can requirements engineering (RE) learn from other disciplines?”

We are convinced that there exist many techniques and best practices across the boundaries of software engineering that are capable of supporting RE-related challenges and activities. Besides evidence from the literature reporting on lessons learned for RE from disciplines such as technical writing [1], family therapy [2], psychology [3], or medicine [4], our claim is perfectly supported by a quote from Susan Robertson: “[...] we can improve the requirements engineering field by learning from other disciplines. Other professions have already solved problems and come up with techniques that we can reuse if only

we take the trouble to make the necessary abstractions.” [5]. This is exactly the objective of our D4RE workshop series: to raise awareness for this topic and collaboratively elaborate a body of best practices and their possible synergies with RE. Such outcomes can ultimately serve as a valuable source of inspiration for a diversity of people from both academia and industry. They may be able to learn from these best practices and possibly adapt them in the future to support RE activities and solve existing challenges.

The main synergy of this workshop with the overall theme of RE'19 is in “collective intelligence”, which we interpret as interconnected groups of people from different disciplines working hand-in-hand to produce desirable results.

Workshop History: Motivated by initial findings from a 4-hour creativity session within the context of the “Mensch und Computer 2017” conference in Regensburg, Germany [6], we organized the first edition of the D4RE workshop collocated with RE'18 in Banff, Canada. Together with 15 participants, we selected three disciplines out of an existing body of ideas stemming from the aforementioned creativity session, namely *journalism/writing, socializing, and law*. In two breakout sessions, 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

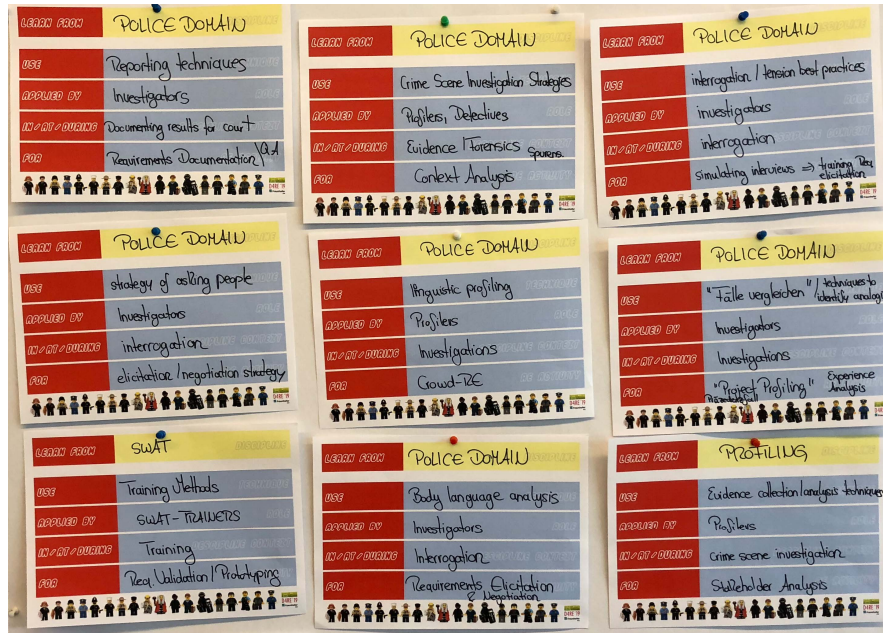


Fig. 1. Possible Synergies between Police Domain and RE-related Activities

could benefit from (psychological) questioning techniques typically applied during interrogations.

The insights from this talk ultimately served as inspiration for the subsequent creativity breakout sessions, which were intended to have the participants work together on innovative RE methods and techniques that adapt ideas from the *police domain* (cf. Fig.1).

In this third edition collocated with RE'19 in Jeju Island, South Korea [7], we intend to further enrich 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"*. Moreover, as a special, *we particularly invite any spouses accompanying our RE community members to Jeju Island to attend our workshop*, to share their experience from their daily work – which might differ considerably from the RE discipline – and to collaboratively elaborate new ideas with us.

Workshop Program: Similar to the previous editions, the D4RE'19 workshop will be a one-day workshop organized into four 1.5-hour sessions. The major part of the workshop will consist of interactive break-out sessions in which the participants will be guided by suitable (creativity) techniques and material to collaboratively discuss and elaborate synergies between "fiction" and RE-related activities in working groups of 4-6 people. As inspiration to these breakout-sessions, the workshop program will be enriched by presentations and discussions of accepted papers that illustrate concrete synergies from other domains for RE, particularly from the financial domain as well as from architecture. Moreover, an inspiration talk entitled "What would House do?" will be given by Marcus Trapp, one

of the D4RE workshop organizers. Inspired by the daily work and medical decisions made by Dr. House in the TV series "House M.D.", many illustrative synergies and lessons learned will be shown that relate to project management activities.

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