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Abstract. The goal of this roadmap paper is to summarize the state-of-the-art and to identify critical challenges for the systematic software engineering of self-adaptive systems. The paper is partitioned into four parts, one for each of the identified essential views of self-adaptation:

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Engineering modelling dimensions, requirements, engineering, and assurances.

~~Software Engineering for Self-Adaptive Systems: A Research ...~~

The 12 carefully reviewed papers included in this state-of-the-art survey originate from the International Seminar on Software Engineering for Self-Adaptive Systems, held in Dagstuhl Castle, Germany, in January 2008. They examine the current state-of-the-art in the field, describing a wide range of approaches coming from different strands of ...

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Despite recent advances in this area, one key aspect of self-adaptive systems that remains to be tackled in depth is the provision of assurances, i.e., the collection, analysis and synthesis of evidence that the system satisfies its stated functional and non-functional requirements during its operation in the presence of self-adaptation. The provision of assurances for self-adaptive systems is challenging since run-time changes introduce a high degree of uncertainty.

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On software engineering self-adaptive systems [15], but rather to complement and extend it with additional topics and challenges. The research challenges identified in the previous paper are still valid. Moreover, it is too early to re-assess the conjectures made in that paper. In order to provide a context for

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Software engineering for self-adaptive systems: A second research roadmap. Rogério De Lemos, Holger Giese, Hausi A. Müller, Mary Shaw, Jesper Andersson, Marin Litoiu, ... Engineering & Applied Science; Systems Analytics Research Institute (SARI) Computer Science Research Group;

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on software engineering for self-adaptive systems published in 2009 covering a different set of topics, and reflecting in part on the previous paper. This roadmap is one of the many results of the Dagstuhl Seminar 10431 on Software Engineering for Self-Adaptive Systems, which took place in October 2010. 1. INTRODUCTION

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Instead of dealing with a wide range of topics associated with the field, we focus on four essential topics of self-adaptation: design space for self-adaptive solutions, software engineering...

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FmFm is an exemplar for engineering adaptive software. It is an IoT-based ecosystem to support food security; that is to ensure sufficient, safe, and nutritious food to the global population. Particularly, it describes four scenarios to experiment and evaluate self-adaptation techniques for the Internet of Things.

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Buy Software Engineering for Self-Adaptive Systems III. Assurances: International Seminar, Dagstuhl Castle, Germany, December 15-19, 2013, Revised ... Papers (Lecture Notes in Computer Science) 1st ed. 2017 by de Lemos, Rogério, Garlan, David, Ghezzi, Carlo, Giese, Holger (ISBN: 9783319741826) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders.

~~Software Engineering for Self-Adaptive Systems III ...~~

Investigate systematic software engineering approaches for developing self-adaptive systems, which are—ideally—applicable across multiple domains. Self-adaptive systems can be characterized by how they operate or how they are analyzed, and by multiple dimensions of

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properties including centralized and

~~Engineering Self-Adaptive Systems through Feedback Loops~~

Approaches to augment software and software-controlled systems with self-managing and self-adaptive capabilities are an important area of research and development, offering solutions that leverage advances in fields such as software architecture, fault-tolerant computing, programming languages, run-time program analysis and verification, among others.

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for engineering self-adaptive software systems. Specifically, we intend to focus on development methods, techniques, and tools that we believe are required to support the

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systematic development of complex software systems with dynamic self-adaptive behaviour. In contrast to merely speculative and conjectural

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To deal with the increasing complexity of software systems and uncertainty of their environments, software engineers have turned to self-adaptivity. Self-adaptive systems are capable of dealing with a continuously changing environment and emerging requirements that may be unknown at design-time.

~~Engineering Self-Adaptive Systems through Feedback Loops ...~~

The Rainbow solution to self-adaptation uses architecture-based techniques combined with control and utility theories. The observed properties of an executing system are reflected in an architecture model.

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Approaches to complement software-based systems with self-managing and self-adaptive capabilities are an important area of research and development, offering solutions that leverage advances in fields including software architecture, fault-tolerant computing, programming languages, and run-time program analysis and verification.

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