

1. Record Nr.	UNINA9910346949903321
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Titolo	Entwurfsoptimierung von selbst-adaptiven Wartungsmechanismen für software-intensive technische Systeme
Pubbl/distr/stampa	KIT Scientific Publishing, 2018
ISBN	1-000-08609-7
Descrizione fisica	1 electronic resource (XXV, 342 p. p.)
Collana	The Karlsruhe Series on Software Design and Quality / Ed. by Prof. Dr. Ralf Reussner
Lingua di pubblicazione	Tedesco
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	This work presents novel concepts for efficient decision support in reconfiguring software-intensive technical systems with limited maintenance access. In contrast to purely redundancy-oriented approaches, the proposed methodology is based on the predictive pre-calculation of adequate configuration alternatives in the relevant design space. The knowledge about configuration relationships is manifested early and used for the autonomic cost-efficient assessment of configuration alternatives.