

Resilience of Computer Systems

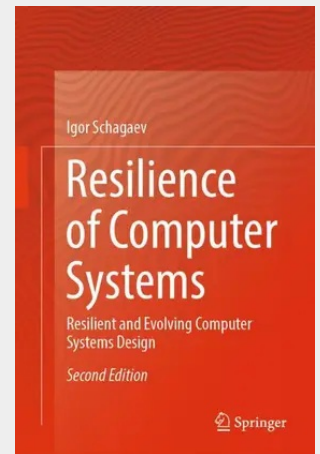
Resilient and Evolving Computer Systems Design

This book, now in its second edition, presents a paradigm for designing new-generation resilient and evolving computer systems. Book includes key concepts, supporting theory, methods of analysis, and the synthesis of ICT with new properties of evolving functionality, as well as implementation schemes and prototyping. This book explains why new ICT applications require redesign of computer systems to address challenges of extreme reliability, high performance, and power efficiency.

The second edition further develops the book's design paradigm of resilient and adaptive computer systems, with a focus on achieving hardware resilience and fault tolerance. The book is revised throughout, with further development of theory of resilience, redundancy classification, and methodologies of application. Most notably, there is a new chapter on concurrency and parallelism—exploring hardware implementation at the level of interruption.

This updated, revised, and expanded edition is of even greater use to industry professionals.

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