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Chapters cover the theoretical fundamentals of AI and deep learning, the state of the industry, including the current state of Neural Network Processors, deep learning frameworks, and a deep learning compilation framework, the hardware architecture of the Ascend AI processor, programming methods and practices for

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developing the processor, and finally, detailed case studies on data and algorithms for AI. Presents the performance and attributes of the Huawei Ascend AI processor Describes the software and hardware architecture of the Ascend processor Lays out the elements of AI theory, processor architecture, and AI

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applications Provides detailed case studies on data and algorithms for AI Offers insights into processor architecture and programming to spark new AI applications

This book constitutes the revised selected papers of the 9th International Conference on Networked Systems, NETYS 2021,

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held virtually in May 2021. The 15 revised full papers and 2 short papers presented were carefully reviewed and selected from 32 submissions. The papers are organized in the following thematic blocks: distributed systems, blockchain, and verification.

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Today, digital technologies represent an absolute must when it comes to creating new products and factories. However, day-to-day product development and manufacturing engineering operations have still only unlocked roughly fifty percent of the "digital potential". The question is why? This book provides

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before going into deeper analysis of the virtual solution interdependencies and guidelines on how to best align them for productive deployment in industrial and collaborative networks. Moreover, it addresses the changes needed in both, technical and management skills, in order to avoid fundamental breakdowns in

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Summary Kubernetes in Action is a comprehensive guide to effectively developing and running applications in a Kubernetes environment. Before diving into Kubernetes, the book gives an

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cluster. You'll gradually expand your initial application, adding features and deepening your knowledge of Kubernetes architecture and operation. As you navigate this comprehensive guide, you'll explore high-value topics like monitoring, tuning, and scaling. What's Inside Kubernetes' internals Deploying

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all versions of the ARM and Thumb instruction sets, the memory management and cache functions, as well as optimized code examples. 0201737191B05092001

Personal computing is changing from an old world of local services provided by local devices to a new world of remote

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This is the origin story of technology

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super heroes: the creators and founders of ARM, the company that is responsible for the processors found inside 95% of the world's mobile devices today. This is also the evolution story of how three companies - Apple, Samsung, and Qualcomm - put ARM technology in the hands of billions of people through

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struggle in the dot com meltdown, and establishes itself as a standard for embedded RISC processors. Apple aficionados will find the opening of Part II of interest the moment Steve Jobs returns and changes the direction toward fulfilling consumer dreams. Samsung devotees will see how that firm evolved from its earliest

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days in consumer electronics and semiconductors through a philosophical shift to innovation. Qualcomm followers will learn much of their history as it plays out from satellite communications to development of a mobile phone standard and emergence as a leading fabless semiconductor company. If ARM could be

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summarized in one word, it would be "collaboration." Throughout this story, from Foreword to Epilogue, efforts to develop an ecosystem are highlighted. Familiar names such as Google, Intel, Mediatek, Microsoft, Motorola, TSMC, and others are interwoven throughout. The evolution of ARM's first 25 years as a

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company wraps up with a shift to its next strategy: the Internet of Things, the ultimate connector for people and devices. Research for this story is extensive, simplifying a complex mobile industry timeline and uncovering critical points where ARM and other companies made fateful and sometimes surprising

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decisions. Rare photos, summary diagrams and tables, and unique perspectives from insiders add insight to this important telling of technology history.

Under the label of "the socialist market economy with Chinese characteristics," the Chinese Government has made a firm

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