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Digital Adoption, Diffusion and Innovation in the Augmented and Digital Society

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Preface

The boundaries between physical and digital worlds are becoming increasingly porous, as advanced technologies continually augment, simulate, and transform our lived experiences. This convergence is not simply a technical evolution but a profound socio-technical shift. With digital infrastructures becoming more interconnected and data-driven, they now enable unprecedented levels of data collection, integration, processing, and application across diverse contexts—spanning commerce, governance, education, healthcare, transportation, and personal life.

These advancements open vast opportunities for innovation, efficiency gains, and new forms of value creation, yet they also introduce significant complexities and risks. Organizations of all types are under pressure to adapt their strategies, infrastructures and cultures to leverage emerging technologies while safeguarding against operational, ethical and societal harms. This technological momentum is reshaping organizational dynamics, disrupting established hierarchies and workflows, altering management and decision-making practices, and redefining professional domains. It raises many research problems, including understanding the drivers and barriers to adoption, identifying effective pathways for technology transfer, and examining the interplay between innovation, regulation, and societal trust.

In shaping an augmented and digital society, it is critical that technological innovation is guided by societal, organizational, and individual priorities and values rather than purely market-driven imperatives. Research plays a key role not only in diagnosing emerging tensions and opportunities but also in providing conceptual, methodological, and evidence-based frameworks to steer the diffusion of digital innovations toward resilient, ethical, and sustainable outcomes.

Aligned with these challenges and priorities, this book presents papers that have been presented and discussed in the 2025 conference of the International Federation of Information Processing Working Group 8.6 (IFIP WG8.6). The IFIP Working Group 8.6 aims to foster understanding and enhance research on the adoption, transfer and diffusion of information and communication technology—spanning practices, methods, and techniques used during and after technology development through to implementation and use. Since its inception, IFIP WG8.6 has focused on IT transfer, diffusion, and implementation at individual, organizational, and societal levels, welcoming contributions from all research paradigms and methods. The conference was held online and was hosted by Binus University in Jakarta, Indonesia. We are grateful to Binus University and the local organising team for their commitment and effort in organising the conference. The conference followed a virtuous double-blind reviewing process to develop papers and direct authors to other types of submissions when the criteria of full-papers were not met. This volume comprises 44 full-length and short papers representing 93 authors from 14 countries. The conference received 187 papers, and the acceptance rate was close to 24%. The book is a post-conference publication where authors had the opportunity to develop their papers based on the discussion during the conference.