This book is designed to introduce doctoral and other higher-degree research students to the process of scientific research in the fields of Information Systems as well as in Information Technology, Business Process Management and other related disciplines in the social sciences. Information Systems is the research field concentrating on the impact of information technology in use by individuals and organisations alike, and is a fundamental element in the understanding of current and future business, management, societal and individual practices.

This book is based on the author’s experience in information systems research, research-level teaching and postgraduate student supervision at Queensland University of Technology, the leading institute for information systems research in Australia. Being based on these experiences, the book is also positioned relative to the worldview and experiential accounts by the author. In consequence, while most aspects of the book relate to general experiences, challenges and processes in scientific research in general, it is mostly influenced by the domain and scientific paradigm in which the author conducts his research.

This book is not meant to replace but rather to complement existing textbooks for research students and scholars. Unlike other textbooks, this book is not primarily about research methods but instead covers the entire research process from start to finish. It places particular emphasis on understanding cognitive and behavioural aspects such as motivational components, various modes of inquiry in scholarly conduct, theorising, planning of research, as well as publication plans, and the ethical challenges of becoming a researcher.

The book is meant to guide research students in their process of learning the life of a researcher. In doing so, it provides an understanding of the essential elements, concepts and challenges of the journey of research studies. It provides a gateway for the student to inquire deeper about each element covered (such as a particular research method) by directing them to the appropriate resources.

The book is designed to be comprehensive and broad but also succinct and compact. It focuses on the key principles and challenges (namely, the core of the research process) without delving into the many associated challenges, exceptions and further issues. In essence, the book is meant to guide beginning doctoral
students in their quest to do scholarly work and provides an easy and comprehen-
sive introduction that can assist them in developing their own answers and
strategies over the course of their studies.

Structure

This book is organised into seven chapters, which span three parts:
Part 1: Basic Principles of Research introduces to the reader the journey and
challenges of pursuing a research degree in information systems. Motivational
components are discussed as well as key underlying principles drawn from the
paradigms of the scientific method. It introduces the vocabulary of research and
lays the foundation for reflecting upon research in Information Systems, be it the
students’ own research or the ones they encounter.

Part 2: Conducting Research dissects the research process in information
systems as a science into the phases of planning, designing and executing. Each
of these phases then receives due attention in terms of planning the research design,
developing and appropriating theory in research and executing relevant research
methods. In doing so, this part of the book aspires to give a general process model
applicable to all doctoral students in information systems, and contains guidelines
that can help in tackling challenges along the way.

Part 3: Publishing Research reflects upon the outcomes of the research process
and provides practical suggestions for managing these outcomes. Publication
strategies and writing tactics are the focus of this part alongside ethical
considerations pertaining to research in terms of conduct and publication. It also
offers a closing reflection on the key processes and outcomes of scholarly work.

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