1. Record Nr.	UNINA9911034935103321
Autore	Almusaed Amjad
Titolo	Practice of Research Methodology in Civil Engineering and Architecture : A Comprehensive Guide / / by Amjad Almusaed, Asaad Almssad, Ibrahim Yitmen
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
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Descrizione fisica	1 online resource (1202 pages)
Collana	Engineering Series
Altri autori (Persone)	AlmssadAsaad YitmenIbrahim
Disciplina	624
Soggetti	Civil engineering Research - Methodology Engineering design Civil Engineering Research Skills Engineering Design
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Part I: Foundations of Research Methodology -- 1: Introduction to Research Methodology -- 2: Identifying Research Gaps -- 3: Formulating a Problem Statement -- 4: Crafting Research Questions, Objectives, and Aims -- 5: Developing a Research Introduction -- 6: Philosophical Foundations of Research -- Part II: Research Design and Methodology -- 7: Research Design and Strategy -- 8: Developing a Research Proposal -- Part III: Qualitative Research Methods -- 9: Introduction to Qualitative Research -- 10: Ethnography and Case Study Methods -- 11: Grounded Theory and Phenomenology -- 12: Narrative and Discourse Analysis -- 13: Qualitative Data Collection and Management -- 14: Data Analysis in Qualitative Research -- Part IV: Quantitative Research Methods -- 15: Introduction to Quantitative Research -- 16: Experimental Design and Causal Inference -- 17: Survey Research and Sampling Techniques -- 18: Statistical Analysis in Quantitative Research -- 19: Advanced Data Analysis in Quantitative Research -- Part V: Data Interpretation and Academic Writing -- 20:

Interpretation of Research Findings and Discussion -- 21: Writing the Literature Review -- 22: Structuring the Research Report -- 23: Academic Writing Style and Rigor -- 24: Writing Articles and Theses: Bachelor's, Master's, and Ph.D. -- 25: Ethical Considerations in Research and Writing -- 26: Dissemination of Research Findings.

Sommario/riassunto	This book offers a comprehensive exploration of research methodology, providing invaluable insights for students and researchers in the AEC industry and engineering fields. Through this book, readers learn the theoretical and practical aspects of research design and academic writing, making it an indispensable resource for anyone engaged in scholarly investigation. This book covers a wide range of topics essential to robust research practices. Readers explore identifying research gaps, formulating problem statements, crafting precise research questions, objectives, and aims. This book delves into the philosophical foundations of different research paradigms—ontological and epistemological factors that impact methodological decisions. It also provides an in-depth examination of qualitative methods such as ethnography, grounded theory, narrative analysis; quantitative methods including experimental design, survey techniques; as well as mixed-methods approaches that combine both to yield comprehensive results. In addition to theoretical content, this book offers practical tools like templates for research proposals and checklists for data collection. These resources are designed to aid researchers in efficiently applying their knowledge in real-world settings. The authors emphasize clarity, coherence, and scholarly rigor in academic writing while providing practical techniques to overcome common obstacles faced by researchers. This book is essential for researchers, scholars, students at all levels who seek to enhance their understanding of research methodology. It provides clear guidance on structuring and organizing research articles, performing literature reviews, presenting findings with scholarly rigor. Whether you are a novice researcher or an experienced academician looking to refine your skills or gain new perspectives on methodological practices—this book is tailored to meet your needs. Researchers in fields such as architecture, engineering construction (AEC), environmental design find this work particularly beneficial. Its comprehensive scope guarantees its authenticity usefulness rendering it indispensable literary essential study academic writing methodological investigation.

2.

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Autore	Mehan Julie
Titolo	Artificial Intelligence : Ethical, Social, and Security Impacts for the Present and the Future, Second Edition
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Edizione	[1st ed.]
Descrizione fisica	1 online resource (409 pages)
Soggetti	Artificial intelligence Ethics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Cover -- Title -- Copyright -- Foreword -- About The Author -- Acknowledgements -- Contents -- Introduction -- Chapter 1: AI defined and common depictions of AI - Is it a benevolent force for humanity or an existential threat? -- A very brief history of AI - and perceptions of AI -- What exactly is AI? -- AI learning styles -- Back to the original question -- Chapter 2: Is AI really ubiquitous - Does it or will it permeate everything we do? -- Ubiquitous AI -- What is allowing AI to become almost a "common utility"? -- What makes people refer to AI as ubiquitous? -- Chapter 3: Human-machine collaboration - Can we talk to them in English (or any other language)? -- The "Age of With™" -- The five Ts of human-machine collaboration -- Types of human-machine collaboration -- How can humans and machines communicate? -- Challenges to human-machine collaboration -- Chapter 4: AI, ethics, and society - Are they compatible? -- How do ethics relate to AI? -- Potential positive ethical and security/safety impacts of AI -- AI in the time of COVID -- Potential negative ethical and security/safety impacts of AI -- The reasons it is difficult for humans to fully address these potential challenges from AI -- Chapter 5: Bias in AI - Why is it important and potentially dangerous? -- Where does AI bias come from? -- Real-life examples of bias in AI -- Can AI's decisions be less biased than human ones? -- Identifying and removing bias in AI -- Chapter 6: AI and cybersecurity - AI as a sword or a

| Sommario/riassunto | This book presents a concrete approach to identifying appropriate ethical principles in AI solutions. |