1. Record Nr. UNINA9911007366603321 Autore Fadele Alaba Ayotunde Titolo The art and science of quantitative research / / by Alaba Ayotunde Fadele, Alvaro Rocha Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, [2025] Pubbl/distr/stampa 3-031-91431-7 **ISBN** Edizione [First edition.] Descrizione fisica 1 online resource (ix, 188 pages): illustrations (some color) Collana Studies in systems, decision and control, , 2198-4190; ; 599 Disciplina 006.3 Soggetti Quantitative research - Methodology Quantitative research Research Design **Empirical Research** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Chapter 1: Introduction to the Key Features of Quantitative Research --Nota di contenuto Chapter 2: Quantitative Research Sampling Techniques -- Chapter 3: Data Collection Methods for Quantitative Research -- Chapter 4: Observational Data Collection for Quantitative Research -- Chapter 5: Quantitative Research Measurements Classifications -- Chapter 6: Quantitative Research Data Preparation and Cleaning Process --Chapter 7: Conclusion and Future Research. Sommario/riassunto This book reflects on the insights gained from exploring the key dimensions of quantitative research as outlined in the preceding chapters. Quantitative research, with its emphasis on objectivity, systematic methodologies, and statistical rigor, plays a pivotal role in advancing knowledge across diverse fields. The study began with an introduction to its foundational principles, highlighting its distinct characteristics and relevance. Key conclusions drawn from each chapter are summarized below: In the first chapter, a basic knowledge of quantitative research was presented, with an emphasis on the methodical and organized approach that quantitative research takes to the study of observable events. Quantitative research differs from

qualitative research in that it focuses on numerical data, statistical analysis, and objective findings, as opposed to qualitative research.

which investigates subjective experiences and meanings. This contrast highlights the crucial role that quantitative approaches play in hypothesis testing and predictive analysis, which makes them very beneficial for academic subjects that need empirical data and findings that can be replicated from experiment to experiment. In the next chapter, we delved further into the fundamental aspects of quantitative research, including its dependence on organized instruments (such as surveys and experiments), the significance of operationalizing variables, and the pursuit of results that can be generalized. When it comes to answering problems that need accuracy, scalability, and statistical validity, quantitative research is an indispensable tool because of these inherent characteristics. At the same time, the chapter brought attention to the attitude of the researcher, which includes taking an objective perspective, reducing prejudice, and adhering to ethical norms. This frame of mind is very necessary in order to guarantee the honesty and dependability of the findings of the investigation. .