# Table of Contents

**Foreword by William H. Hsu** ........................................................................................................... xxiii

**Foreword by Robert Gibson** ............................................................................................................ xxvi

**Foreword by Nancy Hays** ................................................................................................................ xiii

**Preface** ............................................................................................................................................. xxxiv

**Acknowledgment** ............................................................................................................................ xlv

## Section 1
**Setting the Parameters for Technology Use: Qualitative and Mixed Methods Theories and Models**

**Chapter 1**
Coding is Not a Dirty Word: Theory-Driven Data Analysis Using NVivo ......................................... 1

*Kakali Bhattacharya, Kansas State University, USA*

**Chapter 2**
Online Focus Groups: Lessons Learned from 15 Years of Implementation ...................................... 31

*Oksana Parylo, Katholieke Universiteit Leuven, Belgium*

**Chapter 3**
Research E-Journaling to Enhance Qualitative and Mixed Methods Research: Mitigating Human Limits in Perception, Cognition, and Decision-Making ......................................................... 56

*Shalin Hai-Jew, Kansas State University, USA*

## Section 2
**All-Environments Information Collection**

**Chapter 4**
Technologies for Conducting an Online Ethnography of Communication: The Case of Eloqi .......... 105

*Tabitha Hart, San Jose State University, USA*
Chapter 5
Capturing Definitions for a Sustainable Distance Education Ecosystem through an Online Delphi Study

M. Banu Gundogan, Middle East Technical University, Turkey
Gulsun Eby, Anadolu University, Turkey
T. Volkan Yuzer, Anadolu University, Turkey

Chapter 6
Video-Conferencing Interviews in Qualitative Research

Kimberly Nehls, University of Nevada – Las Vegas, USA
Brandy D. Smith, University of Nevada – Las Vegas, USA
Holly A. Schneider, University of Nevada – Las Vegas, USA

Chapter 7
Data Integration Technology for Industrial and Environmental Research via Air Quality Monitoring Network

Tianxing Cai, Lamar University, USA

Section 3
Technology-Enhanced Data Management, Data Processing, Data Visualization, and Human-Machine Analysis

Chapter 8
Leveraging Two Computer-Assisted Qualitative Data Analysis Software Packages to Support Discourse Analysis

Jessica Nina Lester, Indiana University, USA

Chapter 9
Practical Wisdom of Tool and Task: Meeting the Demands of the Method with Digital Tools in Qualitatively Driven Mixed Methods Studies

Nancy J Smith, Texas A&M University – Corpus Christi, USA
Kakali Bhattacharya, Kansas State University, USA

Chapter 10
Software-Assisted Transcribing for Qualitative Interviews: Practical Guidelines

Taghreed Justinia, King Saud bin Abdulaziz University for Health Sciences, Saudi Arabia & Swansea University, UK

Chapter 11
Exploiting Enriched Knowledge of Web Network Structures: Chaining Maltego Tungsten, NCapture and NVivo, and NodeXL

Shalin Hai-Jew, Kansas State University, USA
Section 4  
Data Acquisition and Extraction from Social Media Platforms

Chapter 12  
Trendy Avatars and Their Hair: Studying a Symbolic Cultural Artifact with Multiple Qualitative Methods.......................................................... 288  
Sara Steffes Hansen, University of Wisconsin Oshkosh, USA

Chapter 13  
Tweet Portraiture: Understanding the Gist of Electronic Identities through Microblogged Messaging in Social Media Using NCapture and NVivo 10 ......................................................... 308  
Shalin Hai-Jew, Kansas State University, USA

Chapter 14  
Sampling Public Sentiment Using Related Tags (and User-Created Content) Networks from Social Media Platforms...................................................................................................... 331  
Shalin Hai-Jew, Kansas State University, USA

Section 5  
Cases of Technology-Enhanced Qualitative and Mixed Methods Research (and the Converse)

Chapter 15  
The Theory and Application of Process Research to the Study of IT Strategy-Making.................. 392  
Eamonn Caffrey, Trinity College Dublin, Ireland  
Joe McDonagh, Trinity College Dublin, Ireland

Chapter 16  
Mixed Methods Research Online: Problems and Potential in Business Ethics Research.................. 428  
Theodora Issa, Curtin University, Australia  
David Pick, Curtin University, Australia

Chapter 17  
Applying Grounded Theory to a Qualitative Study of CIO Interactions with External Peer Networks ......................................................................................................................... 450  
Brian Davis, Trinity College Dublin, Ireland  
Joe McDonagh, Trinity College Dublin, Ireland

Chapter 18  
Integrating Process Inquiry and the Case Method in the Study of Information Systems Failure...... 475  
Brian Dempsey, Trinity College Dublin, Ireland  
Joe McDonagh, Trinity College Dublin, Ireland
Chapter 19
Discount Focus Subgroup Method: An Innovative Focus Group Method Used for Researching an Emerging Technology .......................................................................................................................... 494
Mohanad Halaweh, University of Dubai, UAE

Section 6
Technologies for Presenting the Results of Qualitative and Mixed Methods Research

Chapter 20
Querying Google Books Ngram Viewer’s Big Data Text Corpuses to Complement Research ........ 514
Shalin Hai-Jew, Kansas State University, USA

Chapter 21
Expressing Data, Space, and Time with Tableau Public™: Harnessing Open Data to Enhance Visual Learning through Interactive Maps and Dashboards .......................................................... 556
Shalin Hai-Jew, Kansas State University, USA

Compilation of References ................................................................................................................ 583

About the Contributors .................................................................................................................... 630

Index ................................................................................................................................................... 638