About the Authors

Abdollahi Nanvapisheh Anita is a PhD student at the Department of Statistics, Faculty of Science, Razi University. Her main areas of interest include distribution theory, regression, general linear model, non-linear model, optimal design, Bayesian and nonparametric Bayesian analysis. She has published more than 30 research papers in international/national journals and conferences. She has also published three scientific books in the statistical field. She is an active member of many scientific professional bodies including Iranian statistical society.

Ayodeji Idowu Oluwasayo is an Associate Professor of Statistics at the Department of Mathematics, Faculty of Science, Obafemi Awolowo University, Nigeria. Her main areas of interest include time series analysis and multivariate analysis. She is a 2017 alumnus of the Lindau Nobel laureate Meetings on Economic Sciences and a 2024 fellow of the Ife Institute of Advanced Studies. Idowu currently serves as an Associate Editor of the Ife Journal of Science.

Bayoud Husam A. is an Associate Professor of Statistics. His research interests include bioequivalence studies, information theory, reliability analysis and Bayesian analysis. Dr. Bayoud has published more than 25 research papers in international journals and conferences. He has also co-supervised three PhD students in Statistics. He is an active member of many scientific professional bodies.

Bharti has completed her PhD from the Department of Mathematics and Computing at Dr B R Ambedkar National Institute of Technology, Jalandhar, India in 2023 under the supervision of Dr R R Sinha. Dr Bharti has eight research papers published in national and international journals and has presented seven research papers at national and international conferences. She is currently an Assistant Professor at the Department of Mathematics at DAV University, Jalandhar, India.

Białek Jacek is an Associate Professor at the Department of Statistical Methods, Faculty of Economics and Sociology, University of Lodz. Simultaneously he holds the position of an expert in Statistics Poland at the Department of Trade and Services. His main areas of interest include price index theory, inflation measurement and implementation of scanner data in the CPI/HICP by using R, Python and SQL. He is an author of the PriceIndices R package.

198 About the Authors

Brzozowska-Rup Katarzyna is an Assistant Professor at the Department of Economics and Finance, Faculty of Management and Computer Modelling, Kielce University of Technology, Poland. She also serves as an expert consultant for the Statistical Office in Kielce, contributing to research on modelling the shadow economy. Her research activities encompass statistical and econometric methods applied to the unobserved economy, migration, and renewable energy.

Czapkiewicz Anna is an Associate Professor at the Department of Mathematical Applications in Economics at the AGH University in Krakow, Poland. She is also an expert at the Regional Statistical Office in Kielce, Poland. Her research interests are econometrics, financial markets, statistics, applications of mathematics in economics. Anna Czapkiewicz has published more than 60 research papers in international/national journals and conferences.

Hasilová Kamila is an Associate Professor at the Department of Quantitative Methods of the University of Defence. She specializes in the statistical methods and mathematical modelling, with a focus on data analysis and non-parametric statistical methods applied in the area of reliability. She has published more than 50 research papers in peer-reviewed journals and international conferences. She is a member of the European Safety and Reliability Association, Technical Committee "Mathematical and Computational Methods in Reliability and Safety".

Hilow Hisham M. is Jordanian Professor of Statistics born in 1951. He got his PhD degree from Virginia Tech University in 1985. He started his educational career as an Assistant Professor at the Mathematics Department of the University of Jordan. The department has Bachelor, Master and PhD programs. Dr. Hilow was later promoted to the associate professorship rank and finally to full professorship. Dr. Hilow has supervised the thesis of around 20 Master students and the dissertations of three PhD students. Dr. Hilow was a member of dozens of Master and PhD defense committees. He has published around 40 research articles in well-renowned statistical journals. His research interest is mainly in design and analysis of experiments but some of his research is in mathematical statistics as well as in statistical applications. Dr. Hilow chaired the Mathematics Department of the University of Jordan from 2005 to 2009.

Horová Ivana is a Full Professor of Applied Mathematics. She is dealing with non-parametric methods for data analysis. Her main focus is on kernel smoothing techniques. Professor Horová has published 125 papers in international/national journals and presented her results at many international conferences. With her colleagues, she published the monograph "Kernel smoothing in MATLAB" (2012). She was the supervisor of 15 successful PhD students.

Idczak Adam is an Assistant at the Department of Statistical Methods, Faculty of Economics and Sociology, University of Lodz. His current research interests are in the field of text mining, particularly methods for classifying and grouping text documents by sentiment. He has several publications to his credit in the field of statistical methods of text analysis. At the university, he teaches courses in statistics, survey sampling, small area estimation and credit scoring. He works as an expert on credit risk parameter modeling at the Polish bank Pekao S.A.

Jafari Habib is an Associate Professor at the Department of Statistics, Faculty of Science, Razi University. Simultaneously he holds the position of Secretary of the Scientific Committee of Iran Statistics Student Competition. His main areas of interest include regression, GLM, optimal design, conjoint optimal design and Bayesian optimal design. Dr. Jafari has published more than 90 research papers in international/national journals and conferences. He is an active member of the Iranian statistical society.

Khazaei Soleiman is an Assistant Professor at the Department of Statistics, Faculty of Science, Razi University. His main areas of interest include Bayesian analysis, non-parametric analysis, non-parametric Bayesian analysis. Dr Khazaei has published many research papers in international/national journals and conferences. He is an active member of the Iranian statistical society.

Korzeniewski Jerzy is an Associate Professor at the Department of Demography, Faculty of Economics and Sociology, University of Lodz. His main field of scientific work is cluster analysis and its applications. The applications have quite a wide spectrum, for example, the analysis of the effectiveness of stock exchange investments or clustering Polish poviats. For many years he has worked on using cluster analysis to develop machine learning methods for studying linguistic texts. He has several publications on this subject including, e.g. a monograph devoted to the methods of analyzing the sentiment of linguistic texts.

Mpinda Berthine Nyunga is a Machine Learning (ML) research fellow at the University of Tübingen, Germany. Her research interests include medical image analysis, ML and Deep Learning models for medical images, and the explainability and interpretability of these models. With a background in mathematics and Machine Learning, she has served as a teaching assistant at the African Institute for Mathematical Sciences (AIMS) in Cameroon. Berthine is a co-author of several published papers and book chapters in international journals and conferences. She is also a member of the organizing committee for the Deep Learning Indaba conference and an organizer of the Women in Machine Learning and Data Science Kinshasa Chapter in the DRC. Adam Szulc is an Associate Professor at the Institute of Statistics and Demography of the Warsaw School of Economics. His fields of interests cover poverty and inequality

200 About the Authors

measurement, consumer demand systems, equivalence scales, social policy evaluations, and matching estimation. He is a member of the review boards of the Equilibrium - Quarterly Journal of Economics and Economic Policy and of the Argumenta Oeconomica.

Nitha K. U. works as a statistical assistant at the Department of Economics and Statistics. Her research interested areas are time series analysis and distribution theory.

Olawale Awe O. holds a PhD in Statistics from the University of Ibadan and an MBA from Obafemi Awolowo University, Nigeria. He is the Vice President of the International Association for Statistics Education (IASE) and an Elected Council Member of the International Statistics Institute (ISI). He also serves as Vice President of Global Statistical Engagements for the LISA 2020 Global Network, USA, and is a research professor and machine learning team leader at the Statistical Learning Laboratory (SaLLy), Federal University of Bahia, Brazil. Awe has published over 100 research papers and five books/monographs. As the pioneering LISA Fellow at the University of Colorado, Boulder, USA, he has made significant contributions to the global statistical community.

Qubbaj Huda H. is an Assistant Professor of Mathematics and Statistics, who has graduated recently from the University of Jordan. Currently, she holds the position of Head of logistics department at the Cell therapy center. Her areas of interest are biostatistics, statistical inference and data analysis in particular.

Sinha R. R. received his PhD in Sampling Techniques from the Department of Statistics at Banaras Hindu University, Varanasi, India, in 2001. He is currently an Associate Professor at the Department of Mathematics and Computing at Dr B R Ambedkar National Institute of Technology, Jalandhar, India. Along with overseeing the dissertations of PG candidates, he has guided two PhD and three MPhil candidates. Dr Sinha has published more than 35 research articles and six book chapters in national and international journals and proceedings on various topics related to sampling techniques. In addition to actively serving on editorial boards and as a reviewer for esteemed journals and academic societies, Dr Sinha has edited two books on "Statistical Modeling and Applications on Real-Time Problems".

Sivasamy R. is a Full Professor of Statistics at the University of Botswana. He is an internationally published researcher specializing in stochastic processes and their applications to queuing and optimization problems. He frequently partners with other researchers on research projects and supports researchers interested in Markov chain research. He has written several book chapters and monographs on queue inventory systems and pair trading strategies. Over one hundred publications in international journals are his own or co-authored works. He has lectured or presented at major conferences and edited a few papers.

Szulc Adam is an Associate Professor at the Institute of Statistics and Demography of the Warsaw School of Economics. His fields of interests cover poverty and inequality measurement, consumer demand systems, equivalence scales, social policy evaluations, and matching estimation. He is a member of the review boards of the Equilibrium – Quarterly Journal of Economics and Economic Policy and of the Argumenta Oeconomica.

Vališ David is a Full Professor of Mechanical Engineering. His research interests are oriented into the area of reliability, risk and safety – specifically to reliability tests and accelerated reliability tests, degradation modelling and condition assessment. Professor Vališ has published more than 100 research articles/papers in international/national journals and conferences. He has also published three books/monographs or chapters in them. Professor Vališ is an active member of scientific professional bodies such as European Safety and Reliability Association, International Electrotechnical Committee – Technical Committee 56 "Dependability" or International Standardisation Organisation – Technical Committee 262 "Risk Management".

Wanjohi Jane Wangui is a highly motivated data scientist who has recently graduated with a Structured Master's in mathematical science - Data science at the African Institute of Mathematical Sciences. During her academic journey, she enjoyed courses focused on inferential statistics, machine learning, and network science. Through various projects, she has cultivated programming skills in Python and gained practical experience in applying algorithms to solve complex problems.

Zámečník Stanislav is a PhD student at the Faculty of Science of Masaryk University. His research is focused on non-parametric methods, especially kernel smoothing, spherical data, and data analysis. Currently, he is completing his thesis on the topic of his research and has published several papers in this area.