1. Record Nr. UNINA9910254289703321

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| Titolo | Excel 2016 for Social Work Statistics : A Guide to Solving Practical Problems / / by Thomas J. Quirk, Simone Cummings |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017 |
| ISBN | 3-319-66221-X |
| Edizione | [1st ed. 2017.] |
| Descrizione fisica | 1 online resource (XVII, 250 p. 163 illus., 162 illus. in color.) |
| Collana | Excel for Statistics, , 2570-4605 |
| Disciplina | 361.32 |
| Soggetti | Statistics<br>Social service<br>Statistics for Social Sciences, Humanities, Law<br>Social Work<br>Statistics for Life Sciences, Medicine, Health Sciences |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Sample size, mean, standard deviation, standard error of the mean -- Random number generator -- Confidence interval about the mean using the TINV function and hypothesis testing -- One-group t-test for the mean -- Two-group t-test of the difference of the means for independent groups -- Correlation and simple linear regression -- Multiple correlation and multiple regression -- One-way analysis of variance (ANOVA) -- Appendix A: Answers to End-of-Chapter Practice Problems -- Appendix B: Practice Test -- Appendix C: Answers to Practice Test -- Appendix D: Statistical Formulas -- Appendix E: t-table. |
| Sommario/riassunto | This text is a step-by-step guide for students taking a first course in statistics for social work and for social work managers and practitioners who want to learn how to use Excel to solve practical statistics problems in in the workplace, whether or not they have taken a course in statistics. There is no other text for a first course in social work statistics that teaches students, step-by-step, how to use Excel to solve interesting social work statistics problems. Excel 2016 for Social Work Statistics explains statistical formulas and offers practical |

examples for how students can solve real-world social work statistics problems. This book leaves detailed explanations of statistical theory to other statistics textbooks and focuses entirely on practical, real-world problem solving. Each chapter briefly explains a topic and then demonstrates how to use Excel commands and formulas to solve specific social work statistics problems. This book gives practice in using Excel in two different ways: (1) writing formulas (e.g., confidence interval about the mean, one-group t-test, two-group t-test, correlation) and (2) using Excel's drop-down formula menus so as not to have to write formulas (e.g., simple linear regression, multiple correlation and multiple regression, and one-way ANOVA). Three practice problems are provided at the end of each chapter, along with their solutions in an Appendix. An additional Practice Test allows readers to test their understanding of each chapter by attempting to solve a specific practical social work statistics problem using Excel; the solution to each of these problems is also given in an Appendix. Presents key steps and examples to solve practical, easy-to-understand social work problems using Excel Contains 163 illustrations in color Suitable for undergraduate and graduate students No background in statistics is required Guides students through not only statistical formulas but also the processes and reasoning that support statistical theory Focuses exclusively on building a critical foundation for students and practitioners Explains statistical theory and formulas in clear language without bogging the reader down in mathematical fine points Features five appendices with tests, answers and statistical formulas Includes specific objectives for concepts in each chapter, as well as practice problems with answers Saves instructors valuable class time by allowing students to learn how to use Excel to solve practical social work problems outside of class time Tom Quirk is Professor of Marketing in the Walker School of Business and Technology at Webster University in St. Louis, Missouri, where he teaches Marketing Statistics, Marketing Research, and Pricing Strategies. He holds both an M.A. in Education and a Ph.D. in Educational Psychology from Stanford University, a B.S. in Mathematics from John Carroll University, and an M. B.A. from the University of Missouri-St. Louis. He researched full-time for six years at the American Institutes for Research in Palo, Alto, California, and the Educational Testing Service in Princeton, New Jersey. This book is Professor Quirk's 33rd statistics book with Springer, covering twelve subject areas (business, education, psychology, social science, biological and life sciences, physical sciences, engineering, human resources, health services management, environmental sciences, and marketing) using four versions of Excel (2007, 2010, 2013, 2016). Simone Cummings is Dean of the Walker School of Business and Technology at Webster University in St. Louis, Missouri, and formerly Associate Professor of Health Care Management and Associate Dean of Academic Quality Assurance there, where she taught Healthcare Statistics, Healthcare Finance, and Introduction to Healthcare Services. She holds both a B.S.B.A. and an M.H.A from Washington University in St. Louis and a Ph.D. in Health Management and Policy from the University of North Carolina at Chapel Hill. Professor Cummings has served on the Board of the Association of University Programs in Health Administration and currently serves as a Fellow for the Commission on Accreditation of Healthcare Management Education. She has experience consulting and has also conducted clinical and health services research for more than ten years.