

1. Record Nr.	UNISA996418277903316
Autore	Zacks Shelemyahu
Titolo	The Career of a Research Statistician [[electronic resource]] : From Consulting to Theoretical Development // by Shelemyahu Zacks
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2020
ISBN	3-030-39434-4
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (XVIII, 209 p. 9 illus.)
Collana	Statistics for Industry, Technology, and Engineering, , 2662-5555
Disciplina	174.931
Soggetti	Statistics Statistics for Engineering, Physics, Computer Science, Chemistry and Earth Sciences Statistical Theory and Methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Tracking Normal Processes Subjected to Change Points -- Estimating the Common Parameter of Several Distributions -- Survival Probabilities in Crossing Fields with Absorption Points -- Logistics and Operations Analysis for the Military -- Foundation of Sampling Surveys -- Visibility in Random Fields -- Sequential Testing and Estimation for Reliability Analysis -- Random Choice of Fractional Replications -- Sequential Search of an Optimal Dosage -- Contributions to Applied Probability -- Current Challenges in Statistics.
Sommario/riassunto	This monograph highlights the connection between the theoretical work done by research statisticians and the impact that work has on various industries. Drawing on decades of experience as an industry consultant, the author details how his contributions have had a lasting impact on the field of statistics as a whole. Aspiring statisticians and data scientists will be motivated to find practical applications for their knowledge, as they see how such work can yield breakthroughs in their field. Each chapter highlights a consulting position the author held that resulted in a significant contribution to statistical theory. Topics covered include tracking processes with change points, estimating common parameters, crossing fields with absorption points, military operations research, sampling surveys, stochastic visibility in random

fields, reliability analysis, applied probability, and more. Notable advancements within each of these topics are presented by analyzing the problems facing various industries, and how solving those problems contributed to the development of the field. The Career of a Research Statistician is ideal for researchers, graduate students, or industry professionals working in statistics. It will be particularly useful for up-and-coming statisticians interested in the promising connection between academia and industry.
