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sixty-fifth birthday of Professor Ingram Olkin of Stanford University. Part I contains a brief biography of Professor Olkin and an interview with him discussing his career and his research

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interests. Part II contains 32 technical papers written in Professor Olkin's honor by his collaborators, colleagues, and Ph.D. students. These original papers cover a wealth of topics in

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mathematical and applied
statistics, including
probability inequalities and
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multivariate analysis and
association, linear and
nonlinear models, ranking

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and selection, experimental design, and approaches to statistical inference. The volume reflects the wide range of Professor Olkin's interests in and contributions to research in statistics, and

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provides an overview of new developments in these areas of research.

Noise is everywhere and in most applications that are related to audio and speech, such as human-machine

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interfaces, hands-free communications, voice over IP (VoIP), hearing aids, teleconferencing/telepresence/telecollaboration systems, and so many others, the signal of interest (usually speech) that

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is picked up by a microphone is generally contaminated by noise. As a result, the microphone signal has to be cleaned up with digital signal processing tools before it is stored, analyzed,

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transmitted, or played out.
This cleaning process is
often called noise reduction
and this topic has attracted a
considerable amount of
research and engineering
attention for several

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decades. One of the objectives of this book is to present in a common framework an overview of the state of the art of noise reduction algorithms in the single-channel (one

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microphone) case. The focus is on the most useful approaches, i.e., filtering techniques (in different domains) and spectral enhancement methods. The other objective of Noise

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Reduction in Speech
Processing is to derive all
these well-known techniques
in a rigorous way and prove
many fundamental and
intuitive results often taken
for granted. This book is

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traditional theories and methods, other entries discuss important sociopolitical issues and trends influencing the future of that research and practice. Textbooks,

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Despite the ever-increasing interest in the field of text similarity methods, the development of adequate text similarity methods is lagging. Some methods are decent in entailment while

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others are reasonable to the degree to which two texts are similar. Very often, these methods are compared using Pearson's correlation; however, Pearson's correlation is bound to

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outliers that could affect the final correlation coefficient figure. As a result, the Pearson correlation is inadequate to find which text similarity method is better in situations where data items

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are very similar or are unrelated. This paper borrows the scaled Pearson correlation from the finance domain and builds a metric that can evaluate the performance of similarity

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methods over cross-sectional datasets. Results showed that the new metric is fine-grained with the benchmark dataset scores range as a promising alternative to Pearson's correlation.

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Moreover, extrinsic results from the application of the System Usability Scale (SUS) questionnaire on the scaled Pearson correlation revealed that the proposed metric is attaining attention from

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scholars which implicate its usage in the academia.

How to perform and interpret multivariable analysis, using plain language rather than complex derivations.

This book presents material

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on both the analysis of the classical concepts of correlation and on the development of their robust versions, as well as discussing the related concepts of correlation

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matrices, partial correlation, canonical correlation, rank correlations, with the corresponding robust and non-robust estimation procedures. Every chapter contains a set of examples

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with simulated and real-life data. Key features: Makes modern and robust correlation methods readily available and understandable to practitioners, specialists, and

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this book. Practitioners who use correlation based methods in their work as well as postgraduate students in statistics will also find this book useful.

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statistical methods are often
inadequate or outdated
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more powerful techniques address these problems far more effectively, making these modern robust methods understandable, practical, and easily accessible. Highlights: *

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conventional methods can
be highly unsatisfactory *
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language of statistics, which is often a stumbling block for those coming to the subject for the first time. The reader is taught how to calculate statistics by hand as well as being introduced to computer packages to make life easier, and

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range of methods which form

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professionals in the fields of anthropology, sports research, sports science, and physical education.

KATHLEEN F. WEAVER, PhD, is Associate Dean of Learning, Innovation, and Teaching and Professor in the Department of Biology at the University of La Verne.

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The author of numerous journal articles, she received her PhD in Ecology and Evolutionary Biology from the University of Colorado.

VANESSA C. MORALES, BS, is Assistant Director of the Academic Success Center at the University of La Verne. SARAH L. DUNN, PhD, is

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*Associate Professor in the
Department of Kinesiology at the
University of La Verne and is Director
of Research and Sponsored
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numerous journal articles and
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of New South Wales. KANYA GODDE, PhD, is Assistant Professor in the Department of Anthropology and is Director/Chair of Institutional Review Board at the University of La Verne. The author of numerous journal articles and a member of the American Statistical Association, she

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received her PhD in Anthropology from the University of Tennessee.

PABLO F. WEAVER, PhD, is Instructor in the Department of Biology at the University of La Verne. The author of numerous journal articles, he received his PhD in Ecology and Evolutionary Biology from the

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