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Department of Statistics and Data Science Faculty of Science





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DATA INTEGRATION VIA ANALYSIS OF SUBSPACES (DIVAS)

Abstract

A major challenge in the age of Big Data is the integration of disparate data types into a data analysis. That is tackled here in the context of data blocks measured on

Biography

J. S. "Steve" Marron is the Amos Hawley Distinguished Professor of Statistics and Operations Research at the University of North Carolina at Chapel Hill and a

a common set of experimental cases. This data structure motivates the simultaneous exploration of the joint and individual variation within each data block. DIVAS improves earlier methods using a novel random direction approach to statistical inference, and by treating partially shared blocks. Usefulness is illustrated using mortality, cancer and neuroimaging data sets.



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in the Department professor of Biostatistics at the UNC Gillings School of Global Public Health. Marron earned his B.S. degree from the University of California at Davis and completed his PhD at the University of California at Los Angeles. Renowned for his work in highdimensional, functional, and objectoriented data analysis and data visualisation, Marron has contributed significantly to statistical methods, software development, and the statistical expansion of and mathematical theory. His career includes academic positions worldwide, committee memberships, and editorial roles, such as Editor of the Proceedings of "Function Estimates", Workshop on Volume 59 in AMS Series "Contemporary Mathematics" 1986. Marron also coauthored 'Object Oriented Data Analysis,' emphasizing interdisciplinary research and new analytical approaches.

