

Generalized Multivariate Analysis of Variance

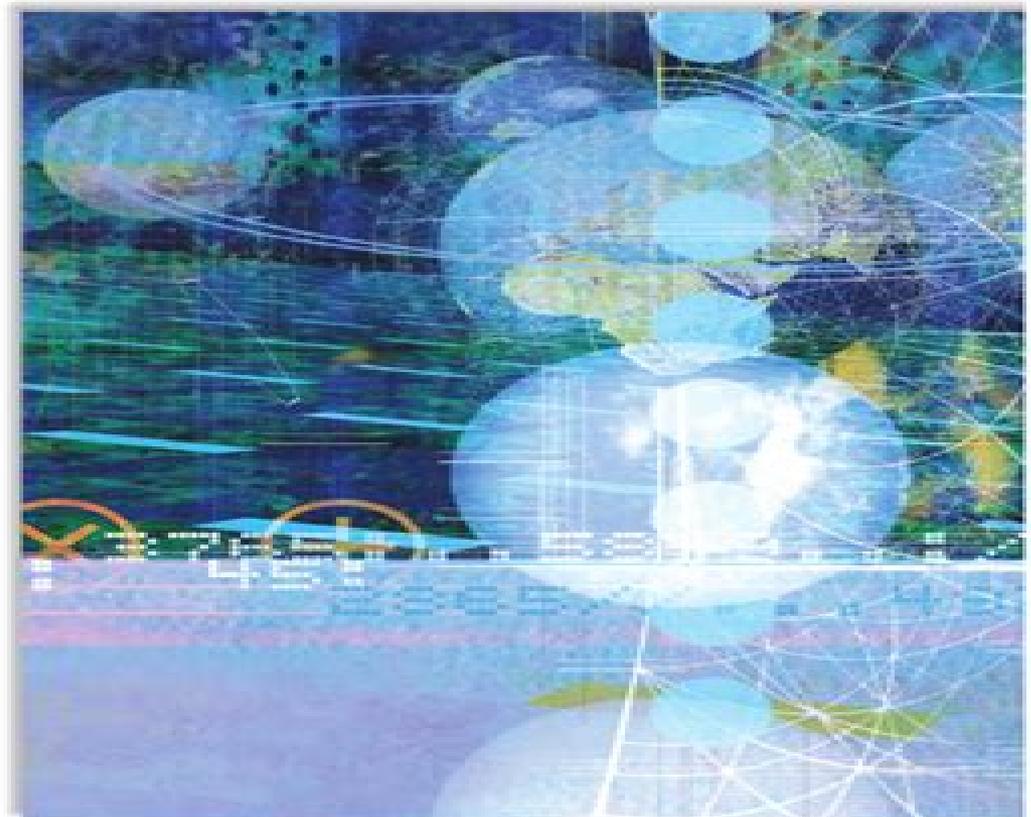
A unified framework for signal processing in correlated noise

Aleksandar Dogandžić and Arye Neborai

Generalized multivariate analysis of variance (GMANOVA) [1]-[19] and related reduced-rank regression [10]-[15] are general statistical models that comprise versions of regression, canonical correlation, and profile analyses as well as analysis of variance (ANOVA) and covariance in univariate and multivariate settings. It is a powerful and, yet, not very well-known tool. In this article, we develop a unified framework for explaining, analyzing, and extending signal processing methods based on GMANOVA. We show the applicability of this framework to a number of detection and estimation problems in signal processing and communications and provide new and simple ways to derive numerous existing algorithms for

- ▲ synchronization and space-time channel and noise estimation in [16]-[33]
- ▲ space-time symbol detection in [23] and [30]-[38]
- ▲ blind and semiblind channel equalization, estimation, and signal separation in [39]-[44]
- ▲ source location using parametric signal models in [17], [23], [28], [31], and [45]-[51]
- ▲ radar target estimation and detection in [45]-[50] and [52]-[55]
- ▲ spectral analysis [56], [57] and nuclear magnetic resonance (NMR) spectroscopy [58].

Many of the above methods were originally derived "from scratch," without knowledge of their close relationship with the GMANOVA models. We explicitly show this relationship and present new insights and guidelines for generalizing these methods. We also acknowledge the pioneering works of Brillinger (on frequency wavenumber analysis; see [59]) and Kelly and Forsythe (on radar detection; see [53]) who



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Generalized Multivariate Analysis

Michal Rosen-Zvi



Generalized Multivariate Analysis:

The Enigmatic Realm of **Generalized Multivariate Analysis**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Generalized Multivariate Analysis** a literary masterpiece penned with a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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