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(Lecture Notes in
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In this paper Diggle argues that, although spatial and longitudinal data analysis have historically developed separately, they share a common foundation in the need to model correlated data parsimoniously and their convergence has been encouraged by modern computing development.

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This refereed volume includes papers presented at a conference on modelling longitudinal and spatially correlated data. Many of the best researchers in the world have presented papers in an area with important applications to biostatistics and the environmental

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(editors). Publication
info: New York :
Springer, c1997.

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In image segmentation, there is often more than one plausible solution for a given input. In medical imaging, for example, experts will often disagree about the exact location of object boundaries. Estimating this inherent uncertainty and predicting multiple plausible hypotheses is of great interest in many applications, yet

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this ability is lacking in
most current deep
learning methods. In ...

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**Stochastic
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Antedependence (AD) models can be a useful class of models for the covariance structure of continuous longitudinal data. Like stationary autoregressive (AR) models, AD models allow for serial

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correlation within subjects but are more general in the sense that they do not stipulate that the variance is constant nor that correlations between measurements equidistant in time are equal.

**Structured
Antependence
Models for
Longitudinal Data ...**

3. Modelling highly

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correlated covariates

with profile regression.

To include all the domains into the same statistical model we

use the profile regression, a model that non-parametrically links a response vector Y to covariate data X through cluster

membership. It was proposed by Molitor et al. (2010) and it has been implemented in the R package

PREMIUM (Liverani et

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al., 2015).

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**Modelling collinear
and spatially
correlated data ...**

In our model, we decompose the functions at the unit level, $\square \text{dri}(t, \Delta \text{dri})$, additively, involving 2 uncorrelated components: a random function $W \text{dri}(t)$ and a spatial process $U \text{dr}(\Delta \text{dri})$. In contrast, Baladandayuthapani and others model $\square \text{dri}$

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(t, Δ dri) via regression splines with spatially correlated random coefficients, β dri.

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Fast methods for spatially correlated multilevel ...

Bayesian hierarchical modeling for a non-randomized, longitudinal fall prevention trial with spatially correlated observations T. E. Murphy , a, * † H. G. Allore , a L. Leo-

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Summers , a and B. P.
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One longstanding focus has been on probability sampling techniques, a second focus has been on statistical modeling of longitudinal and spatially correlated data, and a third has been an abiding interest on the nature

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of statistical inference.

Spatially

Timothy G. Gregoire

| Yale School of the

Environment

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observations T. E.

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**hierarchial
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pair of correlated functions, a collection of spatially correlated, possibly irregularly positioned functions are considered in this article. In addition, the complexity of data and model structure introduces substantial computational challenges. Naive extension of Zhou, Huang, and Carroll

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(2008) is theoretically sound,

Reduced Rank Mixed Effects Models for Spatially Correlated

...

related developments in multivariate time series in Prado and West (1997)

Exploratory modelling of multiple non-stationary time series: Latent process structure and decompositions, in

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Correlated Data, (ed: T.
Gregoire), Springer-
Verlag, and also

related models - and

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Within SAS, there are
various
models, methods and
procedures that are
available for analyzing
any of four different
types of correlated

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response data: (1)

repeated

measurements

including longitudinal

data, (2) clustered

data, (3) spatially

correlated data, and

(4) multivariate data.

Brief descriptions of

these four types of

correlated data follow.

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