

# Using Delay Differential Equations as Dynamical Classifiers

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**Abstract.** We show how direct estimation of delay differential equations can be used for time series analysis of observed signals corrupted by noise. The specific application we discuss is to detection (identifying the presence of a deterministic signal) and classification (assignment of a particular signal to a known class). These ideas have potentially widespread application to areas such as remote sensing, voice recognition and image processing.

## INTRODUCTION

In the last two decades, techniques derived from the theory of nonlinear dynamics have indicated a ground work for novel approaches in signal processing. Until recently, signal processing largely dealt with direct characteristics of the time series under consideration such as amplitude, spectral density, statistical moments, linear regression (ARMA models) and so on. Not surprisingly, this approach can be limited for broadband, noisy, transient signals with nonlinear components. Using such representations, signals produced by the time evolution of the same physical systems can appear dramatically different depending on experimental conditions surrounding its propagation and measurement. Therefore, it can be impossible to detect dynamical similarities or differences by processing a signal  $x(t)$  as a direct representation  $\{x(t_1), x(t_2), \dots, x(t_n)\}$ .

Contrary to this we propose to detect and classify signals by their dynamical properties [1]. This means that we want to classify the rules of temporal evolution underlying a sample observation, instead of the observation itself. Since we seek to represent the dynamics in a state space, our approach requires estimation of a "rate of change", namely to include the *signal derivative*  $dx(t)/dt$  into consideration. This is unusual for conventional signal processing, because the numerical derivative for a noisy observation amplifies the noise,

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