

What is a dynamical model, and what makes it different from a static model?

John Goldsmith

Univeristy of Chicago

A dynamical model is one that integrates time, and in particular in a way that Isaac Newton invented, involving first and second derivatives of location (velocity, acceleration). The early Berlin Gestalt psychologists (notably Wolfgang Köhler) were the first scientists that I know of who tried to develop dynamical models to understand cognitive functions. I will explain these ideas, and also illustrate some of them in the context of linear dynamic models for stress and sonority.