
Stochastic Resonance Theory And Applications

stochastic resonance - uni-augsburg - the essence of classical stochastic resonance theory is presented, and important applications of stochastic resonance in nonlinear optics, solid state devices, and neurophysiology are described and put into context with stochastic resonance theory. **stochastic resonance in neurobiology** - stochastic resonance is a nonlinear phenomenon in which the activity of a dynamical system becomes more closely correlated with a periodic input signal in the presence of an optimal level of noise. **the mechanism of stochastic resonance** - stochastic resonance can be observed also for the lorenz model stochastically perturbed by a white noise in the case of stochastic resonance synergetics—quantum information ... - quantum information theory, stochastic resonance, dynamical maps, neuroscience, algorithm design 1. introduction multidimensional scaling (mds) refers to a wide variety of methodologies [1] used in expressing, often visually. Jovovic 48 Lizing [2], relationships among objects described in a multidimensional space. two classes of mds methodologies are used in practice depending on whether a ... **stochastic resonance - link.springer** - preface the book deals with the theory of noise-added systems and in particular with stochastic resonance, a quite novel theory that was introduced in the 80s to provide **stochastic resonance: noise-enhanced order - bgu** - stochastic resonance and synchronization of ensembles of stochastic resonators 24 6.1 linear response theory for arrays of stochastic resonators; 6.2 synchronization of an ensemble of stochastic resonators by a weak periodic signal; 6.3 stochastic resonance in a chain with finite coupling between elements **an information theoretic view of stochastic resonance** - an information theoretic view of stochastic resonance Venkat Anantharam EECS Department University of California Berkeley Berkeley, CA 94720, U.S.A. **stochastic resonance (sr) - kias** - stochastic resonance (sr) is a well-known phenomenon in dynamical systems. it consists of the amplification and optimization of the response of a system assisted by **aperiodic stochastic resonance - collinslab.mit** - stochastic resonance ~sr! is a phenomenon wherein the response of a nonlinear system to a weak periodic input signal is optimized by the presence of a particular level of noise. recently, we presented a method and **enhancement of stochastic resonance using optimization theory** - enhancement of stochastic resonance using optimization theory 5 where u is the potential function, x_{min} is one of the local minimizers and x_{max} is the **the multi-frequency stochastic resonance** - the theory of stochastic resonance was put forward by the Italian scholar Benzi firstly [7]. it is a nonlinear two-stable system, when only under the effect of the noise **stochastic resonance - assetsmbridge** - from suprathreshold stochastic resonance to stochastic signal quantization stochastic resonance occurs when random noise provides a signal processing benefit, and has been observed in many physical and biological systems. many aspects have been hotly debated by scientists for nearly 30 years, with one of the main questions being whether biological neurons utilize stochastic resonance. this ... **stochastic resonance: from climate to biology - npg** - 2 the mechanism of stochastic resonance in climate theory climate is one of the most complex systems in nature and it is a major scientific challenge to understand the basic mechanisms leading to climate changes. in the past, climate showed quite remarkable changes over all timescales. in particular, one of the most striking aspects of past climate changes is the so-called 100ky cycles ... **generalizing stochastic resonance by the transformation method** - the phenomenon of stochastic resonance [1] is that by adding noise to an observed test statistic one may sometimes improve the detection performance of a fixed but suboptimal detector [2]. a detailed analysis of this phenomenon from a statistical detection theory viewpoint is contained in [3]. for example, assume that we decide a signal is present if a test statistic exceeds a threshold or if ...

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