

Dynamical Processes On Complex Networks

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Oct 25, 2022 · complex optical quantum network connecting hybrid su-perconducting microwave quantum circuits [22,23], with other approaches using electro- or piezo-optomechanical devices [24{27], trapped atoms [28], rare-earth ions doped crystals [29] and optomagnonic devices [30,31]. y liu.qiu@ist.ac.at z j nk@ist.ac.at? These authors contributed equally to ...

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The Symbol Grounding Problem

structure of the causal interactions in certain dynamical systems; a neural network is merely one possible implementation of such a dynamical system.[4] Connectionism will accordingly only be considered here as a cognitive theory. As such, it has lately challenged the symbolic approach to modeling the mind.

The Kuramoto model: a simple paradigm for ...

The rhythmical activity of each element may be due to internal processes or to external sources (external stimuli or forcing). Even if the internal processes responsible for rhythmicity have different physical or biochemical origins and can be very complex, one may hope to understand the essence of synchronization in terms of a few basic ...

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to dynamical processes running on complex networks. This study is a step towards the application of machine learning methods to studies of dynamical patterns from complex network systems.

Keywords—complex networks, voter model, machine learning INTRODUCTION The recent popularization of online social networks has