

**DELAY-COUPLED COMPLEX SYSTEMS: AND
APPLICATIONS TO LASERS (SPRINGER THESES)**

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and Applications to Lasers Valentin Flunkert V. Flunkert, Delay-Coupled Complex Systems, Springer Theses, DOI: /_9.

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of unidirectional time delay chaotic networks and the greatest common divisor. Flunkert, Delay-Coupled Complex Systems: And Applications to Lasers (Springer, Nature, ()) Chapter 10 Summary and Outlook In this thesis.

Publications - fatihcan atay

Springer Theses (Springer, Heidelberg,) D.P. Rosin, P. Hövel, M.A. Dahlem, E 71, () E. Schöll, Synchronization in delay-coupled complex networks, in Advances in Analysis and Control of Time-Delayed Dynamical Systems, ed. by dynamics and applications of delay-coupled semiconductor lasers.

For technological applications semiconductor lasers are promising systems The synchronization of delay-coupled systems in general [6-9] and Flunkert V Delay-Coupled Complex Systems (Springer Theses) (Heidelberg: Springer).

Complex photonics: Dynamics and applications of delay-coupled semiconductor lasers. Nevertheless, these lasers first studies, semiconductor laser systems with delayed cou- Diode Lasers: Technology and Applications, Springer Series in.

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Limited research has been done for two-valued mask functions, suggesting a nonrandom mask construction procedure based on maximum length sequences [52]. Some complex systems manifest their emergent behavior through sequences of extreme oscillations or spiking events.

The biological relevance of such protein-protein interactions is not the... Approaches to measuring FC have the greatest data requirements, and include connectivity measures based on organism movement, such as dispersal success and immigration rate, with, for example, a high immigration rate indicating a

high level of FC. For example using time-delayed mutual information as a non-linear measure enables identification and quantification of linkages between areas in real time for example in relation to an external stimulus or event and enables assessment of reactive delays. The system can then be fed at data rates in the range of 0. ECALGoing even further, in Eq. Also important will be the synthesis of distinct methods that are similar in terms of the theoretical basis and share common ways of quantitatively describing specific aspects of connectivity.