Publications 2012
Prof. Dr. Dr. h.c. mult. Jürgen Kurths

X. L. Yang, D. V. Senthilkumar, J. Kurths
Impact of connection delays on noise-induced spatiotemporal patterns in neuronal networks
Chaos 22, 4, 043150 (2012)

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J. Runge, J. Heitzig, N. Marwan, J. Kurths
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Y. Tang, H. Gao, J. Kurths, J. Fang
Evolutionary pinning control and its application in UAV coordination

Y. Tang, Z. Wang, H. Gao, S. Swift, J. Kurths
A constrained evolutionary computation method for detecting controlling regions of cortical networks

Challenges in network science: Applications to infrastructures, climate, social systems and economics

W. Zou, D. V. Senthilkumar, Y. Tang, J. Kurths
Stabilizing oscillation death by multicomponent coupling with mismatched delays

S. Schinkel, G. Zamora-López, O. Dimigen, W. Sommer, J. Kurths
Order Patterns Networks (ORPAN)—a method to estimate time-evolving functional connectivity from multivariate time series
Frontiers in Computational Neuroscience, 6 (2012)

N. Mahdavi, M. B. Menhaj, J. Kurths, J. Lu, A. Afshar
Pinning impulsive synchronization of complex dynamical networks

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A. Rheinwalt, N. Marwan, J. Kurths, P. Werner, F.-W. Gerstengarbe
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Detected coupling directions with inter-system recurrence networks

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R. Suresh, D. V. Senthilkumar, M. Lakshmanan, J. Kurths
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P. J. Menck, J. Kurths
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Y. Tang, H. Gao, W. Zou, J. Kurths
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Escaping the curse of dimensionality in estimating multivariate transfer entropy

R. Suresh, D. V. Senthilkumar, M. Lakshmanan, J. Kurths
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G. Florence, T. Pereira, J. Kurths
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H. Ando, H. Suetani, J. Kurths, K. Aihara
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Bifurcations in a star-like network of Stuart-Landau oscillators

K. Rehfeld, N. Marwan, S. F. M. Breitenbach, J. Kurths
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K. Srinivasan, D. V. Senthilkumar, I. Raja Mohamed, K. Murali, M. Lakshmanan, J. Kurths
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Quantifying Changes In the Spatial Structure of Trabecular bone

T. Penzel, M. Riedl, A. Gapelyuk, A. Suhrbier, G. Bretthauer, H. Malberg, C. Schöbel, I. Fietze, J. Heitmann, J. Kurths, N. Wessel
Effect of CPAP therapy on daytime cardiovascular regulations in patients with obstructive sleep apnea

M. Manju Shrii, D. V. Senthilkumar, J. Kurths
Delay-induced synchrony in complex networks with conjugate coupling

Y. Wu, W. Liu, J. Xiao, W. Zou, J. Kurths
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Stochastic resonance in an ensemble of bistable systems under stable distribution noises and nonhomogeneous coupling

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Relationship between El Niño/Southern Oscillation and the Indian Monsoon

Generalized synchronization between two different complex networks

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Physical Review E, 85, 2, 026208 (2012)

Modeling and analysis of the transmission dynamics of tuberculosis without and with seasonality

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Synchronization control for nonlinear stochastic dynamical networks: pinning impulsive strategy

Classifying cardiac biosignals using ordinal pattern statistics and symbolic dynamics

Spatial patterns of linear and nonparametric long-term trends in Baltic sea-level variability

Poincaré recurrences in a system with non-strange chaotic attractor

Methoden zur Analyse kardiorespiratorischer und kardiovaskulärer Kopplungen