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and Sciences Dean's Professor, Director of the Center for Survey Statistics Methodology (CSSM), and Professor in the Department of Statistics. He has expertise in spatial statistics, survey statistics, time series analysis, multivariate and functional data analysis, and machine learning, and has over 60 publications on spatial sampling

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## **Zhengyuan Zhu | Department of Statistics**

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time series is extended to analysis of  
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Modular Aero Propulsion System  
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generator. [DOI: 10.1115/1.4007699]  
Keywords: transient time-series analysis,  
symbolic dynamics,

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## **Petruta C Caragea | Department of Statistics**

Indian Institute of Management,  
Ahmedabad, India. Time Series  
Clustering and Classification using  
Topological Data Analysis with

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applications to Finance. In this talk, we discuss new methods for time series classification and clustering based on techniques of Topological Data Analysis (TDA). We present a new clustering method SOM-TDA using which we examine the topological similarities and dissimilarities of some well-known time-series models.



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Symbolic Time Series Analysis (STSA)

STSA is a fast time series feature extraction tool that models the temporal evolution of a quasi-stationary time series via symbolization (Ray, 2004). The algorithms of STSA are

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formulated via symbolization of the time series generated from dynamical systems along with subsequent state machine construction.

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Statistics 451 - Applied Time Series  
Spring 2016. Instructor: William Q.  
Meeker, 294-5336 Instructor email:  
wqmeeker@iastate.edu Office Hours: WF  
2:10-3:00 p.m. in 2109 Snedecor Hall (or  
by appointment---send email)

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The course provides a survey of the theory and application of time series methods in econometrics. Topics covered will include univariate stationary and non-stationary models, vector autoregressions, frequency domain methods, models for estimation

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