

# IEEE/CAA Journal of Automatica Sinica

## *Special Issue on Time Series Classification*

### **Guest Editors:**

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### **Scope and significance of the special issue:**

Time series classification research and applications have recently received a lot of attention. With the advancement of technological devices, time series data are being collected by a wide variety of devices, resulting in a wide range of research and applications. Various fields of studies, ranging from health care to weather readings, require time series classification. Activity and action recognition using time series data from fitness trackers are commonly being practiced. Today, a new generation of algorithms and techniques are being used to classify time series data that are widely available to the research community. For example, recently deep learning techniques that utilize convolutions and recurrent neural networks are being used to classify epileptic seizures from EEG recordings made available at the University of California-Irvine data repository. The topics of interest in this special issue include but not limited to the followings:

- Univariate/Multivariate time series classification
- On-line learning in time series classification
- Big Data time series classification
- Deep Learning and/or complex network methodologies to improve time series classification accuracy
- Time series classification applications (health care, action recognition, image recognition, energy, etc.)

### **Timetable:**

- Submission deadline: 3/11/2019 (**Extended to 4/15/2019**)
- Previewing and Reviewer's initial comments: 4/8/2019
- Revisions (if required) from authors: 5/6/2019
- Guest Editor's recommendation: 5/20/2019
- Editors-in-chief (EIC)' decision: 5/27/2019
- Final accepted manuscripts: 6/3/2019
- Publication which will be done by the Editorial Office: 9/1/2019