

The 4th China Physiological Signal Challenge (CPSC2021): Paroxysmal Atrial Fibrillation Events Detection from Dynamic ECG Recordings

China Physiological Signal Challenge

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Dear friends,

With your great support, the first three China Physiological Signal Challenges (CPSC2018, CPSC2019, CPSC2020) in 2018-2020 achieved great success, focusing on the theme of intelligent analysis of ECG data and attracted 150+ teams from the world and vigorously promoted the development of open, interactive, and integrated research in the aspects of ECG standard database construction, AI analysis, and clinical application. As an annual event, the 4th China Physiological Signal Challenge (CPSC 2021) will be held during the 10th International Conference on Biomedical Engineering and Biotechnology (ICBE2021) in November 2021 in Suzhou, China. We are looking forward to your attention and participation again.

Benefit from wearable healthcare, medical big data and AI technology, *etc.*, dynamic ECG monitoring becomes more and more possible for large-scale applications, and will play a more and more important role in early prediction for cardiovascular disease. Atrial fibrillation (AF) is one of the most common types of arrhythmia. Early screening and early detection of Paroxysmal Atrial Fibrillation (PAF) are particularly important. It is of great value for AF surgery options, drug intervention, and the diagnosis and treatment of various clinical complications. Therefore, CPSC2021 focuses on the recognition and endpoint detection of PAF in dynamic ECG data. More information can refer to the website <http://www.icbeb.org/CPSC2021>.

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Suzhou is a beautiful classical Chinese city. We sincerely invite you to participate in CPSC 2021. Let us meet in the garden capital of the world in November 2021: Suzhou!

Challenge Chair of CPSC2021

March 2021, Nanjing

Challenge hosted by:

School of Instrument Science and Engineering, Southeast University, China

State Key Laboratory of Bioelectronics, Southeast University, China

School of Biomedical Engineering and Information, Nanjing Medical University, China

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