

# The China Physiological Signal Challenge 2019: Challenging QRS Detection and Heart Rate Estimation from Single-Lead ECG Recordings

## China Physiological Signal Challenge

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**Seoul, South Korea, October 22-25, 2019**

Dear friends,

With your great support, the first China Physiological Signal Challenge (CPSC 2018) ended with great success in Oct., 2018, which has attracted 56 teams over the world and enormously promoted the development of open-source interactive on medical big data and AI analysis. Following CPSC 2018, the second China Physiological Signal Challenge (CPSC 2019) will be held during ICBEB 2019 in Seoul, South Korea. We are looking forward for your attention and participation again.

Benefit from wearable healthcare, IoT technology, *etc.*, continuous long-time ECG monitoring becomes more and more realistic, and will play a more and more important role in early prediction for cardiovascular disease. Although numerous QRS detectors have been developed in recent decades, and they achieved high detection accuracy over the open access database, there is still considerable space for improvement in the accuracy when processing challenging ECG signal episodes. Thus, CPSC 2019 aims to encourage the development of algorithms to identify the QRS complexes, as well as the robust heart rate estimation, in challenging ECG signal episode. More information can refer to the website <http://www.icbeb.org/Challenge.html>.

We thank to School of Instrument Science and Engineering, State Key Laboratory of Bioelectronics of Southeast University, School of Biomedical Engineering and Information, of Nanjing Medical University, Health Engineering Branch of CSBME, ICBEB, and thanks to Lenovo Group for sponsoring the challenge.

We are looking forward to meeting you in Souel, in Oct. 2019.

Challenge Chair of CPSC 2019

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