

# The 2nd China Physiological Signal Challenge (CPSC 2019): Challenging QRS Detection and Heart Rate Estimation from Single-Lead ECG Recordings

## China Physiological Signal Challenge

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Chengyu Liu, PhD

### Challenge Committee

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Xingyao Wang

Feifei Liu, PhD

Lina Zhao

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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>.

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

Challenge Chair of CPSC 2019

### Secretariat Address:

Organizing Committee ICBEB2019  
No. 1, Optical valley avenue, East Lake  
High-Tech Development Zone, Wuhan,  
Hubei, China  
Tel: +86-27-87051286  
E-mail: [chinachallenge\\_cpssc@icbeb.org](mailto:chinachallenge_cpssc@icbeb.org)

### 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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