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Bio:

He received the B.S. degree in computer science from Northeastern University, Shenyang, China, in 2011, and the M.E. and Ph.D. degrees in computer science from University of Toyama, Toyama, Japan, in 2015 and 2018, respectively. He is currently an Associate Professor at Jiangsu Ocean University, China, and a Special Researcher at University of Toyama, Japan. His main research interests include intelligence algorithm, signal processing and neural engineering.

Speech Title:

Application of seasonal-trend decomposition based on loess in time-frequency analysis of GW

Speech Abstract:

Due to the influence of analysis window length and noise, the analysis accuracy of signal processing technology is low and the noise reduction effect is poor. We propose to introduce the seasonal-trend decomposition based on loess (STL) method into gravitational wave (GWs) analysis to predict the weak part of signal, which solve the problem of gaussian signal loss and incomplete analysis effectively, and avoiding the interference of noise.