

Special Session on Signal Processing, Machine Learning and Communications for Personal Health Monitoring

Name and affiliation of organizers: *[Different Institution is a must - delete an unused column]*

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Scope of the session

With the increasing concerns of the personal health, the demand of the health monitoring products increases. To develop these personal monitoring products, the human signals are first acquired. Second, the acquired signals are transmitted to a cloud system. Third, the advanced signal processing techniques are applied to perform the denoising and extract the features. Finally, the advanced machine learning techniques are applied to perform the classification and the regression. However, due to the cost consideration, there are many constraints imposed on both the hardware and the software. This special session aims to call for the new methods on the signal processing, machine learning and communications for addressing these challenges for developing new biomedical applications for personal health monitoring.

Prospective authors are invited to submit original and unpublished work on the following research topics related to this Special Session:

- *Signal acquisition*
- *Time frequency analysis*
- *Denoising*
- *Feature extraction*
- *Classification*
- *Regression*
- *Internet of things*
- *Cloud communications*
- *Personal health monitoring*
- *Biomedical applications*