

Special Session on Intelligent Methods for Next Generation Sequencing Genomics and Genome Medicine

The next generation sequencing (NGS) has recently become the major technique in molecular biology and medicine. The sequencers are producing constantly terabytes of data in short reads coming from various types of biological samples. Genome bioinformatics is aiming at managing and analysing these big data and providing results understandable and useful for biologists and medics. Many of the challenges in processing the genomic big data can be addressed by application of intelligent methods. They may originate from classic machine learning, pattern recognition or data mining areas, but may be also novel and motivated with the recent progress in scalable cloud computing and parallel processing infrastructures.

The session invites presentations of various types of creative data analyses techniques of NGS data from all areas of applications in molecular biology, biotechnology or medicine.

Organizers

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