Artificial Intelligence in Cardiology

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Message from the Guest Editors

Artificial Intelligence (AI), which includes machine learning, deep learning, and cognitive computing, is starting to influence all disciplines, including medicine. The exploitation of AI in cardiology will affect all cardiovascular areas, from research to clinical practice.

AI applications may find solutions to cardiovascular challenges in cardiology, allowing the integration, modelling, classification, and interpretation of heterogeneous data (e.g., demographics, laboratory tests, medical records, biosignals, bioimages, biofluidodynamics, and others), thus requiring the cooperation and contribution of several different skills, mainly from bioengineering, cardiology, and computer science.

This Special Issue aims to collect original papers and/or reviews on AI in cardiology. Topics include, but are not limited to:

- AI-based clinical decision making in cardiology;
- Machine learning and deep learning in cardiology;
- Knowledge engineering in cardiology;
- Data analytics and mining for clinical decision support in cardiology;
- AI for diagnostics in cardiology;
- AI for drug development and cardiovascular safety pharmacology;
- AI-based precision medicine in cardiology;
- Intelligent sensors, devices, and instruments in cardiology;
- Models and systems for AI-based population cardiovascular health;
- Ethics of AI in cardiology.

Special Issue

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Message from the Editor-in-Chief

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