# High-performance Data Analytics and Computing in Personalized Medicine: Some Challenges for Modellers and Mathematicians

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**Abstract:** The talk will address hot topics in computational modelling, simulations and mathematical models in personalized medicine, with cardiac system, blood circulation and related physiology in the foreground. Recent results obtained at the ICM in collaboration with clinical centers will be reported, in particular addressing non-invasive diagnostic procedures for interventional cardiology and their computer-aided implementations. A reference to the emerging field of personalized data-based approaches will be given.

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