PARIS

Title Personalized Atrial Fibrillation Risk Of Ischemic Stroke Assessment And Disease Trajectory Projection; Towards A Unified Machine-learning-based Clinical Index

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Project partners

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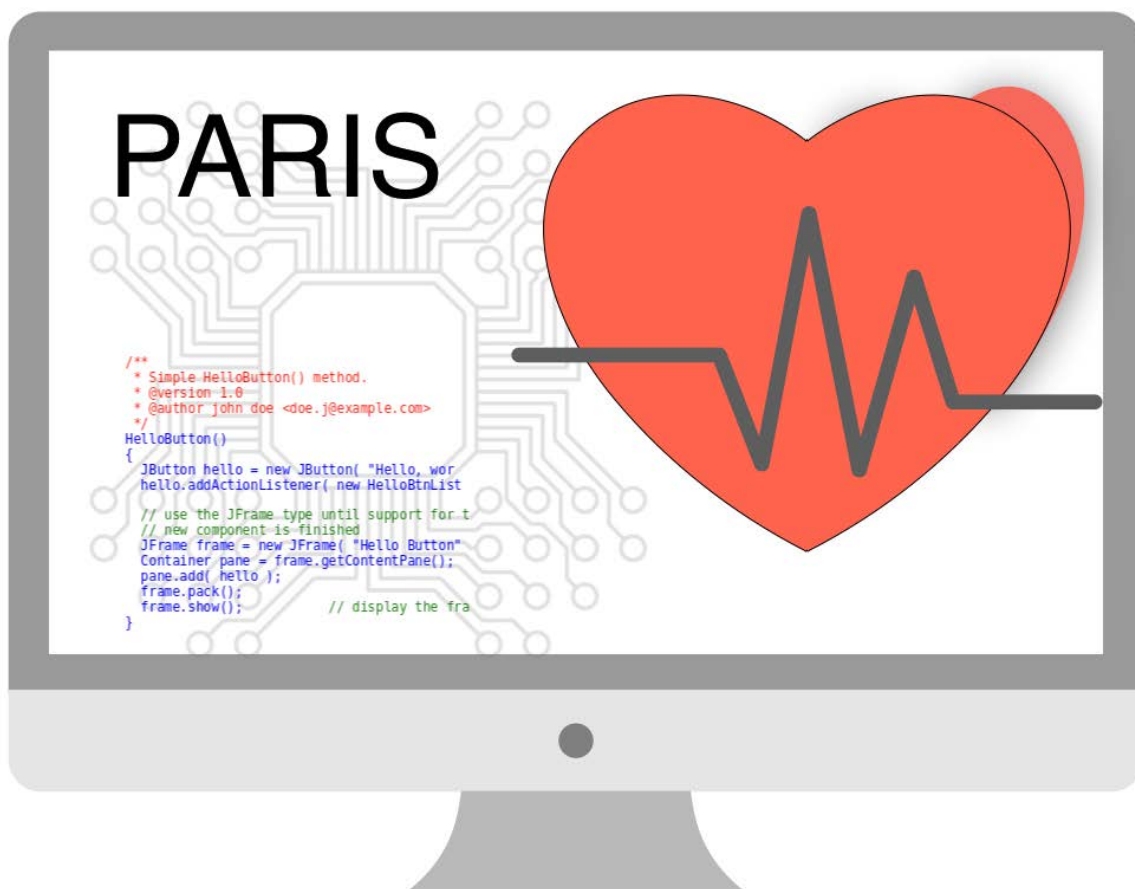
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Abstract

Atrial Fibrillation (AF) is a complex cardiac disease that can lead to blood clots and increase the risk of stroke. AF is gaining epidemic proportions and the majority of patients are prescribed anticoagulants, but at the cost of severe side effects. Individualized disease management remains a major challenge, whereas clinical data remain under-utilized. Computational models based on patient-specific medical images are sophisticated, but remain insufficiently validated for individual clinical predictions. PARIS will utilize existing medical records with known clinical outcome, to validate computer models and predictive machine learning methods. The ambition is to identify biomarkers that correlate with stroke and to reduce individual bleeds by optimizing personalized treatment and clinical follow-up.

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