Following the Heart: Computational Methods in the Context of Cardiovascular Conditions

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ABSTRACT: Changes to the heart’s structure and elasticity characterize a variety of cardiovascular conditions, ranging from Hypertrophic Cardiomyopathy in the young to diastolic dysfunction in older populations. Early detection of such conditions and ranking of their likely severity is important for prevention and for treatment. In the talk, I will discuss a few projects in which we collaborate with physicians to develop computational tools that use available clinical data for supporting early detection and diagnosis of heart disease.