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Nota di contenuto Modeling of the Heart - Anatomy Extraction and Description -- Multi-

surface Cardiac Modelling, Segmentation, and Tracking -- Analysis of the Interdependencies Among Plaque Development, Vessel Curvature, and Wall Shear Stress in Coronary Arteries -- Automated Segmentation of X-ray Left Ventricular Angiograms Using Multi-View Active Appearance Models and Dynamic Programming -- SPASM:
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Sommario/riassunto

The 1 stand 2nd International Conferences on Functional Imaging and Modelling of the Heart (FIMH) were held in Helsinki, Finland, in November 2001, and in Lyon, France, in June 2003. These meetings were born through a fruitful scientific collaboration between France and Finland that outreached to other groups and led to the start of this biennial event. The FIMH conference was the first attempt to agglutinate researchers from several complementary but often isolated fields: cardiac imaging, signal and image processing, applied mathematics and physics, biomedical engineering and computer science, cardiology, radiology, biology, and physiology. In the first two editions, the conference received an enthusiastic acceptance by experts of all these communities. FIMH was originally started as a European event and has increasingly attracted more and more people from the US and Asia. This edition of FIMH received the largest number of

submissions so far with a result of 47 papers being accepted as either oral presentations or posters. There were a number of submissions from non-EU institutions which confirms the growing interest in this series of meetings. All papers were reviewed by up to four reviewers. The accepted contributions were organized into 8 oral sessions and 3 poster sessions complemented by a number of invited talks. This year we tried to allocate as many papers as possible as oral presentations to facilitate more active participation and to stimulate multidisciplinary discussions.