

Automatic 3D reconstruction of electrophysiology catheters from two-view monoplane C-arm image sequences

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Abstract *Purpose:* Catheter guidance is a vital issue for the success of electrophysiology interventions. It is usually provided through fluoroscopic images that are taken intra-operatively. The cardiologists, who are typically equipped with C-arm systems, scan the patient from multiple views rotating the fluoroscope around one of its axes. The resulting sequences allow the cardiologists to build a mental model of the 3D position of the catheters and interest points from both views.

Methods: We describe and compare different 3D catheters reconstruction strategies and ultimately propose a novel and robust method for automatic reconstruction of 3D catheters in non-synchronized fluoroscopic sequences. This approach does not purely rely on triangulation but incorporates prior knowledge about the catheters. In conjunction with an automatic detection method, we demonstrate the performance of our method by evaluating on the complete surgical workflow.

Results: In our experiments that include 20 biplane datasets, we achieve an average re-projection error of 0.43mm and an average reconstruction error of 0.67mm compared to gold standard annotation.

Conclusions: In clinical practice, catheters suffer from complex motion due to the combined effect of heart beat and respiratory motion. As a result, any 3D reconstruction algorithm via triangulation is imprecise. We have proposed a new method that is fully automatic and highly accurate to reconstruct catheters in three dimensions.

Keywords fluoroscopy · catheter 3D reconstruction · electrophysiology · probabilistic graphical model · arrhythmia

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Electrophysiology Lab Procedure Manual

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Handbook of Cardiac Electrophysiology Andrea Natale, Oussama M. Wazni, Kalyanam Shivkumar, Francis E. Marchlinski, 2020-03-23 The second edition of this bestseller provides a practical user friendly manual guiding the theory and practice of cardiac electrophysiology The handbook provides the specialist in training with a thorough grounding procedures and clinical findings for clinicians It provides a review of the main kinds of arrhythmia with illustrations of typical ECG findings supported where appropriate by correlative imaging It also details the principal diagnostic and therapeutic procedures include implantation of pacemakers resynchronization therapy and ablation techniques Key Features Provides concise user friendly guide to the equipment procedures and clinical findings with which EPs need to be familiar Delivers alternatives resource to the flagship titles available in this field idea for those beginning training or seeking an update Presents extensively updated material to enhance comprehension Includes new treatments and devices for electrophysiologists trained to perform interventional cardiac electrophysiology studies EPS as well as surgical device implantations

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