

Methodology for space localization of surgical instruments



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Reviews

Thorough manual! Its this kind of excellent study. It really is written in straightforward terms and never difficult to understand. I am very happy to inform you that this is basically the very best pdf we have read through during my individual existence and could be the greatest ebook for possibly.

(Dr. Arno Sauer Sr.)

METHODOLOGY FOR SPACE LOCALIZATION OF SURGICAL INSTRUMENTS

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LAP Lambert Academic Publishing Dez 2016, 2016. Taschenbuch. Condition: Neu. Neuware - This work deals with the problem of surgical navigation, that is the spatial location of patient and surgical instruments while performing an operation, and tools used to track position and orientation in the operating room of each monitored object. The devices currently used are the optoelectronic, electromagnetic and ultrasound tracking system that have clear advantages but also some disadvantages. To remedy these shortcomings, the clinical use of inertial sensors, as accelerometers and gyroscopes, which combine the accuracy needed to the surgical navigation, low cost of production and management, has been investigated. A so-called Inertial Measurement Unit (IMU) that incorporates different combinations of accelerometers and gyroscopes is used to obtain a more accurate measurement and provide the surgeon tools with better performance than those in use. This work focused on the analysis of 2 different types of IMU and its data processing algorithms. Results shows that inertial sensors in the configuration described are a valid solution in spatial localization for surgical navigation to obtain position and orientation of a body ensuring accuracy, low costs and practicality. 56 pp. Englisch.



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