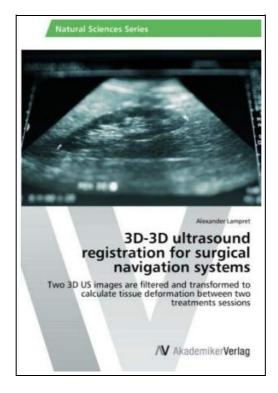
## 3D-3D ultrasound registration for surgical navigation systems



Filesize: 4.38 MB

#### Reviews

It in one of my favorite publication. Indeed, it can be play, nonetheless an interesting and amazing literature. I discovered this publication from my i and dad suggested this publication to understand.

(Camryn Williamson)

#### 3D-3D ULTRASOUND REGISTRATION FOR SURGICAL NAVIGATION SYSTEMS



AV Akademikerverlag Aug 2012, 2012. Taschenbuch. Condition: Neu. Neuware - Minimal invasive surgery gets more and more important because of its advantages for patients and the health system. Because the surgeon has reduced sight, patient or organ movements are not always recognized. Due to this movements, the necessary treatment or biopsy can affect healthy tissue instead of sick one. Computer-aided image-based navigation systems supports the surgeon to identify such movements. These navigation systems uses pre-operative 3D computer tomography (CT) or magnetic resonance (MR) images and compare them to real-time 2D ultrasound (US) images from the endoscope head. Within a number of treatments tissue deformation can occur and these deformations are not considered in the CT or MR images. These deformation limits the effect of navigation systems. This thesis describes a 3D-3D US-US registration method which detects and corrects tissue deformation during interventions in gastroenterology. Before treatment starts a 3D CT and a 3D US image are recorded simultaneously. At the beginning of the treatment session, the ROI is again imaged with the 3D US. Both US images are then processed with a series of filters to reduce noise and to highlight the anatomically significant structures. The following 3D-3D registration between the pre-interventional and the interventional US images allows for quantification of tissue deformation. 52 pp. Englisch.



Read 3D-3D ultrasound registration for surgical navigation systems Online Download PDF 3D-3D ultrasound registration for surgical navigation systems

### You May Also Like



#### Arsenic Removal Technologies from ground water

LAP Lambert Academic Publishing Jan 2013, 2013. Taschenbuch. Condition: Neu. Neuware - Ground water is one of the main sources of drinking water especially in rural areas of India. Groundwater is generally regarded as safe to...

Save ePub

**»** 



#### Design and Development of Low Cost Adsorbents

LAP Lambert Academic Publishing Nov 2013, 2013. Taschenbuch. Condition: Neu. Neuware - Clean and pure water is one of the implicit requisites for a healthy human population. However the growing industrialization and extensive use of...

Save ePub

»



#### HBR Guide to Getting the Right Work Done

Ingram Publisher Services Feb 2013, 2013. Taschenbuch. Condition: Neu. Neuware - IS YOUR WORKLOAD SLOWING YOU-AND YOUR CAREER-DOWN Your inbox is overflowing. You're paralyzed because you have too much to do but don't know where...

Save ePub

**»** 



#### Modeling of Evanescent wave Optical Fiber Biosensor

LAP Lambert Acad. Publ. Mrz 2011, 2011. Taschenbuch. Condition: Neu. Neuware - Biomedical electronics and instruments, equipment, diagnostic & detection tools success based on the success of high sensitive biosensors invention and development. Biosensors are...

Save ePub

»



#### Intermediate Accounting (IFRS) Volume 1

LAP Lambert Academic Publishing Nov 2018, 2018. Taschenbuch. Condition: Neu. Neuware - This book focuses on the second stage of financial accounting, which is the intermediate accounting. The first part deals with the problems and...

Save ePub

..



#### Journeys: Practice Book Consumable Grade 6

HOUGHTON MIFFLIN. PAPERBACK. Condition: New. 0547246471 New, never used! Has slight shelf wear due to storage. Stamped Avitar Books on inside cover. All books directly from Avitar Books, we never use a 3rd party. Will

**Download Document** 

**»** 



#### The Mirror Sisters (Paperback)

POCKET BOOKS, United States, 2016. Paperback. Condition: New. Language: English. Brand new Book. From the legendary New York Times bestselling author of Flowers in the Attic and My Sweet Audrina (now Lifetime movies) comes the

**Download Document** 

>>



# Marriage Counseling: A Marriage Guide for Healing Your Relationship, Better Your Communication and Get Back Your Love and Connection with Your Partner (Paperback)

Createspace Independent Publishing Platform, United States, 2018. Paperback. Condition: New. Language: English. Brand new Book. Modern culture would have you believe that everyone has a soul mate; that romance is the most important part of

**Download Document** 

»



#### **Bayesian Biostatistics (Hardback)**

John Wiley & Sons Inc, United States, 2012. Hardback. Condition: New. 1. Auflage. Language: English. Brand new Book. The growth of biostatistics has been phenomenal in recent years and has been marked by considerable technical

**Download Document** 

...



#### The Contemporary Internet

Peter Gmbh Lang Mrz 2011, 2011. Buch. Condition: Neu. Neuware - The contemporary internet focuses on user experiences of more recent developments on the internet, specifically with the spread of broadband, the audio-visual applications it

**Download Document** 

»