Fakulteta za elektrotehniko

Univerza v Ljubljani

Program P2-0232

Funkcije in tehnologije kompleksnih sistemov

vodja programa Franjo Pernuš

	Število bibliografskih enot				
	A1	A2	A3	A4	Σ
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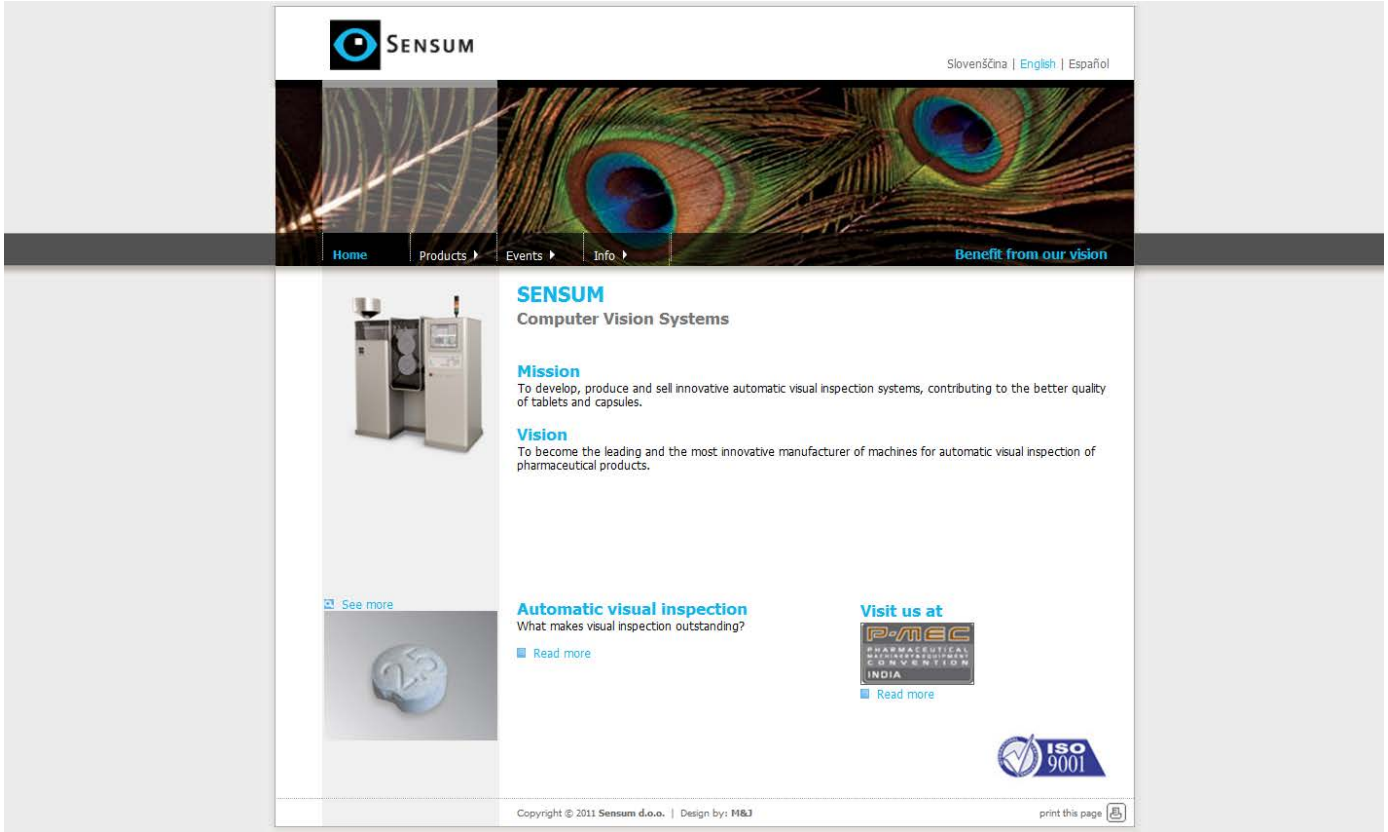
Σ	**32**	6	8	2	**48**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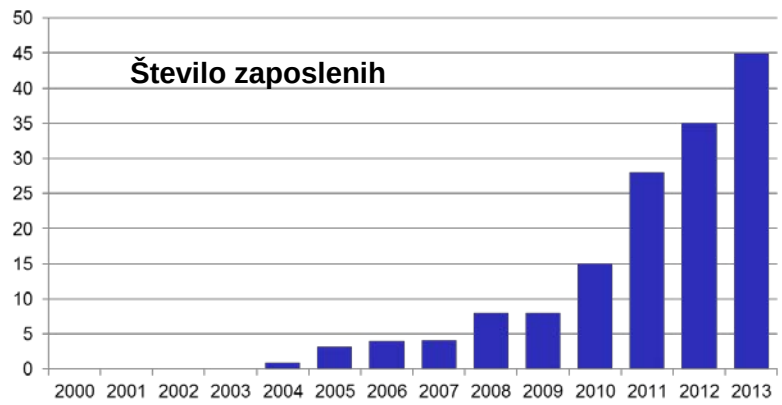
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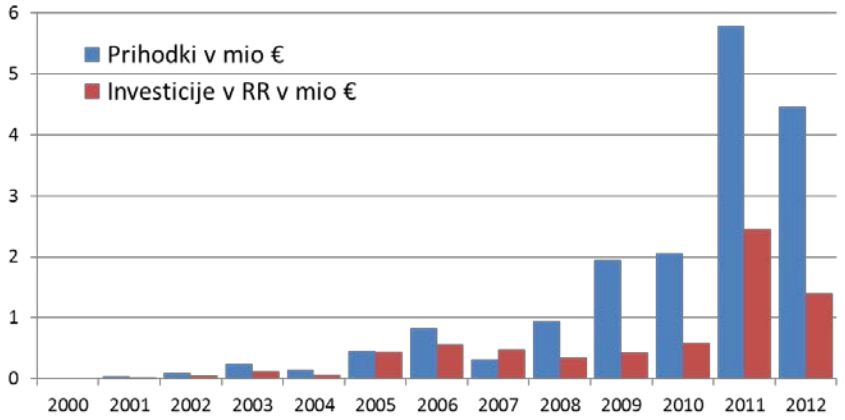
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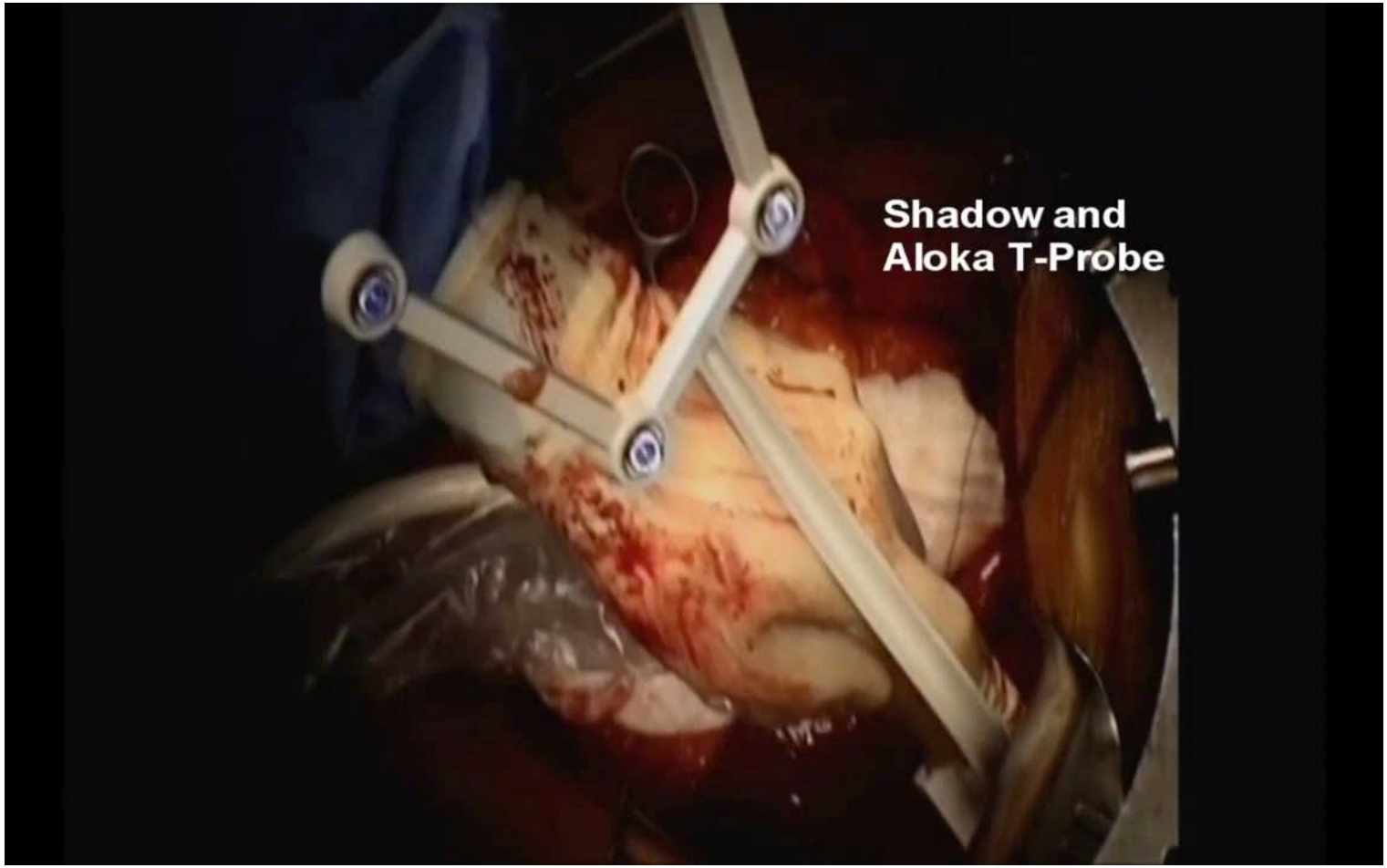
Konstantni trend v medicini je razvijanje in uporaba tehnik in tehnologij za:

operacije,
radioterapijo in radiokirurgijo,
intervencijsko radiologijo in
endoscopske posege

ki omogočajo manj invazivne in/ali natančnejše posege z boljšim izidom.

Takšne posege predvsem omogoča slikovno vodenje - uporaba slik zajetih pred in med posegom.

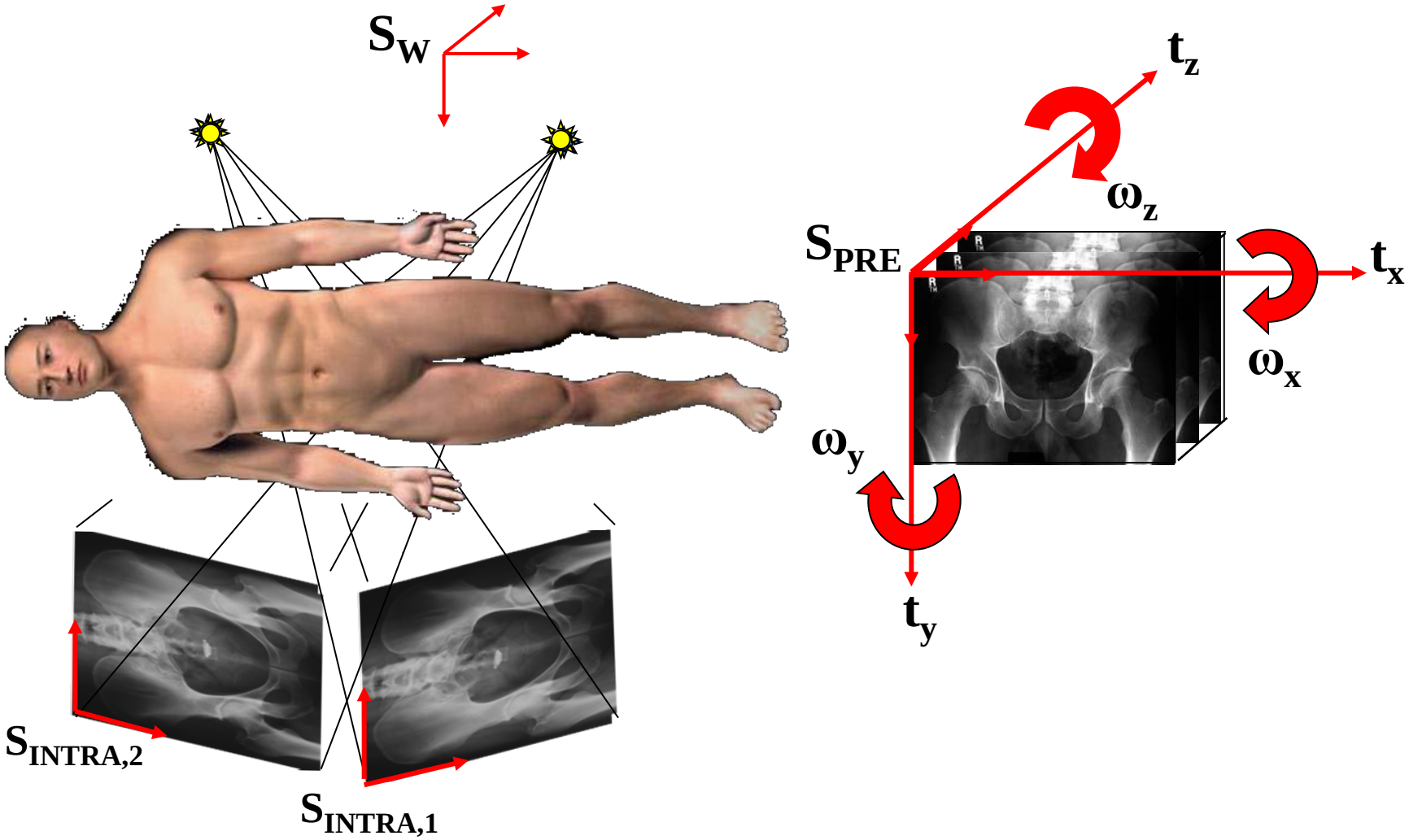
Slikovno vodena kirurgija



VIR: http://www.pathnav.com/

Endoskopija z nadgrajeno resničnostjo

VIR: http://www.ircad.fr/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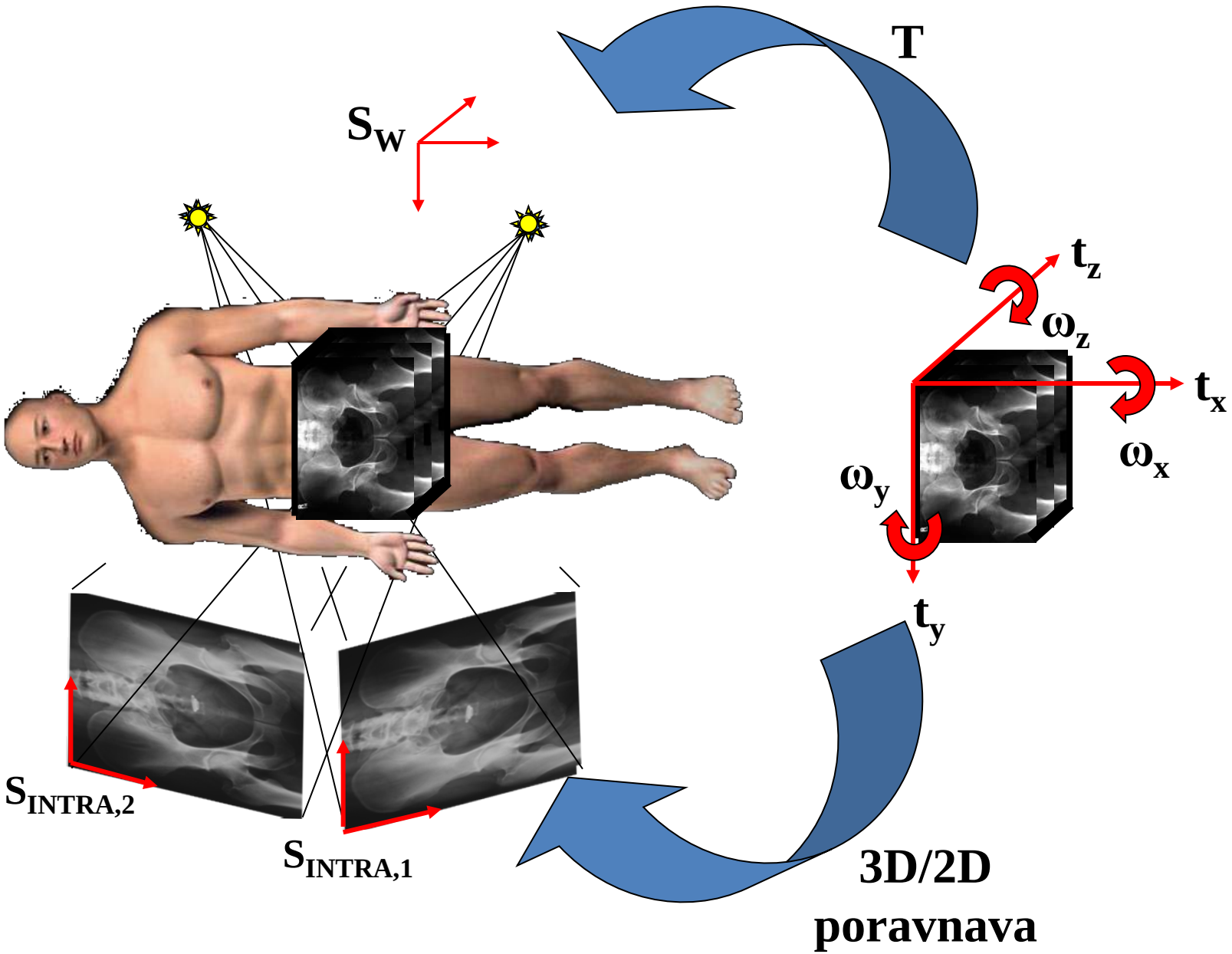
T
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ω_y
t_y
$S_{INTRA,2}$
$S_{INTRA,1}$
3D/2D
poravnava

DOSEŽEK P2-0232 v letu 2012

Primož Markelj, Dejan Tomaževič, Boštjan Likar in Franjo Pernuš

A review of 3D/2D registration methods for image-guided interventions

***Medical Image Analysis*, 16(3):642-661, 2012**

Impact Factor 2012: 4.087

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1. A review of 3D/2D registration methods for image-guided interventions

April 2012

P. Markelj | D. Tomaževič | B. Likar | F. Pernuš

Abstract: Registration of pre- and intra-interventional data is one of the key technologies for image-guided radiation therapy, radiosurgery, minimally invasive surgery, endoscopy, and interventional radiology. In this paper, we survey those 3D/2D data registration methods that utilize 3D computer tomography or magnetic resonance images as the pre-interventional data and 2D X-ray projection images as the intra-interventional data. The 3D/2D registration methods are reviewed with respect to image modality, image dimensionality, registration basis, geometric transformation, user interaction, optimization procedure, subject, and object of registration.

2. Statistical shape models for 3D medical image segmentation: A review

August 2009

Tobias Heimann | Hans-Peter Meinzer

Abstract: Statistical shape models (SSMs) have by now been firmly established as a robust tool for segmentation of medical images. While 2D models have been in use since the early 1990s, wide-spread utilization of three-dimensional models appeared only in recent years, primarily made possible by breakthroughs in automatic detection of shape correspondences. In this article, we review the techniques required to create and employ these 3D SSMs. While we concentrate on landmark-based shape representations and thoroughly examine the most popular variants of Active Shape and Active Appearance models, we also describe several alternative approaches to statistical shape modeling. Structured into the topics of shape representation, model construction, shape correspondence, local appearance models and search algorithms, we present an overview of the current state of the art in the field. We conclude with a survey of applications in the medical field and a discussion of future developments.

3. Review of automatic segmentation methods of multiple sclerosis white matter lesions on conventional magnetic resonance imaging

January 2013

Daniel García-Lorenzo | Simon Francis | Sridar Narayanan | Douglas L. Arnold | D. Louis Collins