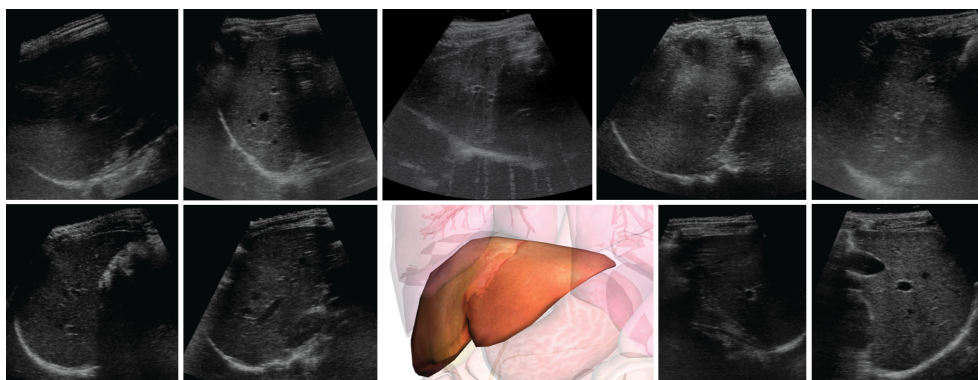


MICCAI 2014 - Challenge on Liver Ultrasound Tracking

CLUST 2014



<http://clust14.ethz.ch/>

Sunday, Sept 14, 2014 (PM)
MIT, Cambridge, MA, USA

PROGRAM

- | | |
|----------------|---|
| 1.15 pm | Start |
| 1.15 – 1.25 pm | Welcome
<i>Valeria De Luca, Christine Tanner</i>
Computer Vision Lab, ETH Zurich, Switzerland |
| 1.25 – 1.40 pm | Introduction and Data Description
<i>Christine Tanner</i>
Computer Vision Lab, ETH Zurich, Switzerland |
| 1.40 - 3.00 pm | Session 1*: 2D Tracking
Chair: <i>Amalia Cifor</i>
Institute of Biomedical Engineering, University of Oxford, UK |
| 1.40 - 2.00 pm | Liver Feature Motion Estimation in Long High Frame Rate 2D Ultrasound Sequences
<i>Tuathan O'Shea, Jeff Bamber, <u>Emma Harris</u></i>
Institute of Cancer Research and Royal Marsden NHS Foundation Trust, London and Sutton, UK |
| 2.00 - 2.20 pm | Liver Ultrasound Tracking Using Long-term and Short-term Template Matching
<i><u>Satoshi Kondo</u></i>
Konica Minolta Inc., Osaka, Japan |

* Each talk will consists of a 15 min presentation followed by 5 min of questions. The speakers are underlined.

- 2.20 - 2.40 pm Kernel-based Tracking in Ultrasound Sequences of Liver
Tobias Benz¹, Markus Kowarschik^{1,2}, Nassir Navab¹
¹ Computer Aided Medical Procedures, Technische Universität München, Germany
² Angiography & Interventional X-Ray Systems, Siemens AG, Healthcare Sector, Forchheim, Germany
- 2.40 - 3.00 pm A Non-Linear Image Registration Scheme for Real-Time Liver Ultrasound Tracking using Normalized Gradient Fields
Lars König, Till Kipshagen, Jan Rühaak
Fraunhofer MEVIS Project Group Image Registration, Lübeck, Germany
- 3.00 - 3.30 pm **Coffee Break**
- 3.30 - 4.30 pm **Session 2*: 2D and 3D Tracking**
Chair: Muyinatu A. Lediju Bell
Laboratory for Computational Sensing and Robotics, Johns Hopkins University, Baltimore, USA
- 3.30 - 3.50 pm High Performance Online Motion Tracking in Abdominal Ultrasound Imaging
Dennis Lübke¹, Christian Grozea²
¹ Fraunhofer MEVIS, Bremen, Germany
² Fraunhofer FOKUS, Berlin, Germany
- 3.50 - 4.10 pm MICCAI CLUST 2014 - Bayesian Real-Time Liver Feature Ultrasound Tracking
Sven Rothlübbers¹, Julia Schwaab², Jürgen Jenne¹, Matthias Günther¹
¹ Fraunhofer MEVIS , Bremen, Germany
² Mediri GmbH, Heidelberg, Germany
- 4.10 - 4.30 pm Live Feature Tracking in Ultrasound Liver Sequences with Sparse Demons
Oudom Somphone, Stéphane Allaire, Benoit Mory, Cécile Dufour
Medisys Lab, Philips Research, Suresnes, France
- 4.30 - 5.00 pm **Overall Results, Outlook and Conclusions**
Valeria De Luca
Computer Vision Lab ETH Zurich, Switzerland
- 5.00 pm End

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