
SECOND CALL FOR PAPERS AND PARTICIPATION

2nd MICCAI Workshop on
Computer Assisted Stenting (MICCAI-STENT)
<http://campar.in.tum.de/STENT2013/WebHome>

September 22, 2013, 1.30 - 5 pm, Nagoya, Japan
A half-day workshop held in conjunction with [MICCAI 2013](#)

Important Dates

Abstract Submission Deadline: May 27, 2013
Full Paper Submission Deadline: ~~May 27, 2013~~ June 2, 2013
Notification of acceptance: June 27, 2013
Workshop: September 22, 2013, 1.30-5 pm

Provisional Calendar of CMIG Special issue

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- Submission of invited manuscripts: January 15, 2014
 - Acceptance/rejection notification: March 31, 2014
 - Revised manuscripts due: May 31, 2014
 - Publication of Special Issue: end 2014

For further information please email
miccaistentworkshop2013 (at) gmail.com

This workshop aims to bring together scientific researchers and medical experts in the field of endovascular stenting procedures in different anatomical regions. While researchers concerned with cerebral, coronary, carotid, and aortic stenting have mostly published within their corresponding anatomy, the proposed MICCAI-STENT Workshop will provide a platform for scientific discussion on stent-related research across anatomical boundaries and will eventually be the basis for forming a specialized sub-community within MICCAI.

The 1st MICCAI-STENT workshop was held in Nice, France, in 2012 and received a lot of interest from the MICCAI community with a fully booked session (40+ participants) and 20 accepted papers. The 2nd MICCAI-STENT workshop aims to repeat such an achievement focusing on a wider range of topics related to stent devices. Therefore, we invite submission of papers presenting new techniques for every aspect of computational assistance for all stenting procedures regardless of their anatomical area (cardiac, aortic, cerebral, etc.).

Relevant topics for the workshop include (but are not limited to):

- Imaging techniques for strut/stent detection, reconstruction, enhanced visualization, and assessment
- Computer-aided surgery for stenting procedures
- Navigated stenting
- Quantification of vascular morphology and function, stent (graft) vessel wall interaction
- Detection and visualization of fluid dynamic changes induced by stents

- Computer-aided diagnosis of post-deployment diseases (neo-intima growth, stent malaposition)
- Computer-aided planning of vascular treatments
- Segmentation and anatomic modelling from vascular images
- Image-based biomechanical models of stents (grafts), vascular anatomy and function
- Image registration for stenting procedures
- Hemodynamic image-based modeling
- Analysis and improvement of stent (graft) design
- Virtual stenting
- Monitoring and follow-up for stent (graft) implants
- Efficiency of endovascular treatments based on stent device

Besides oral and poster presentations of reviewed submissions, this workshop will also feature an invited talk by an expert who will report on recent changes within the domain of computer assisted stenting.

Special issue in "Computerized Medical Imaging and Graphics"

A special issue of the journal "Computerized Medical Imaging and Graphics" will be devoted to the topic of computer-assisted stenting. It will include selected papers presented at the 1st and 2nd MICCAI Workshops on Computer Assisted Stenting (MICCAI-STENT 2012 and 2013) held in conjunction with MICCAI 2012 and 2013 in Nice, France, and Nagoya, Japan, as well as submissions from open invitations to those actively working in the field.

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Workshop Committee

Steering Committee

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