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

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

Important Dates

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Paper submission deadline: May 27, 2013  
Notification of acceptance: June 27, 2013  
Workshop: September 22, 2013, 1.30-5 pm

Contact

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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 subcommunity 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 at repeating such achievement focusing on a wider range of topics related to stent devices (highlighted in red in the list of topic below). Therefore, we invite submission of papers presenting new techniques for every aspect of computational assistance for all kinds of 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 malposition)
- Computer-aided planning of vascular treatments
- Segmentation and anatomic modeling 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 of an expert who will report on recent changes within the domain of computer assisted stenting. In addition, we will bring together experts from medical and engineering domain (academia as well as representatives of industry) and initiate a panel discussion on the future of computer assisted stenting.

### **Workshop Organizers**

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### **Workshop Committee**

#### Technical Board

Ignacio Larrabide, PhD, University Pompeu-Fabra, Spain

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Georg Langs, Medical University Vienna, Austria

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