



DBSMC-II @ MICCAI 2014

Workshop on “Deep Brain Stimulation Methodological Challenges (2nd Edition)”

Sept.14th / Boston (USA)

<http://dbsmc2-2014.sciencesconf.org>

!!! New deadline: June 30th !!!

!!! Proceedings published as Springer LNCS !!!

Scope

This MICCAI workshop aims at establishing a forum for discussing advanced methods related to surgical Deep Brain Stimulation (DBS). After a 1st successful edition during MICCAI 2012 that mostly focused on preoperative planning and per-operative procedures, this edition aims at discussing the potential of new imaging sequences and new types of stimulation electrodes, as well as an update on anatomo-clinical atlases.

This workshop aims at gathering researchers and clinicians in various fields such as medical image computing, computer graphics, computational modeling, computer-aided surgical planning, and interventional imaging to discuss the recent advances and the challenges to address to improve the performance of DBS interventions.

Topics of interests include but are not limited to:

New pre / intra / post-op imaging modalities for DBS
 New neuromodulation systems: TMS, rTMS
 Modeling for surgical workflow optimization
 Biomechanical simulation of electrode deformations
 Biomechanical simulation of brain shift
 Segmentation and modeling of anatomical structures of interest
 Modeling of the effect of electrical stimulation

New stimulation electrodes
 Assistance to decision making
 DBS pre-operative planning
 Validation of DBS planning
 Anatomo-functional brain atlases
 Automatic identification of nuclei
 Modeling of surgical procedures

Organizers and Program Committee

Organizers

Eric Bardinet, PhD ; Paris, France
Louis Collins, PhD ; Montréal, Canada
Stéphane Cotin, PhD ; Ville. d'Ascq, France
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Pierre Jannin, PhD ; Rennes, France;

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Reuben Shamir, PhD ; Cleveland, USA
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Program Committee

Silvain Bériault, PhD ; Montréal, Canada
Christopher Butson, PhD ; Milwaukee, USA
Elena De Momi, PhD ; Milan, Italy
Christian Duriez, PhD ; Ville. d'Ascq, France

Submission Guidelines

We invite electronic submissions of 8-page to 10-page papers for oral or poster presentation, formatted following the same submission guidelines as the main conference MICCAI (LNCS style, anonymity for double-blind review)

Important dates

Paper submission deadline	June 30th
Notification of acceptance	July 5th
Camera-ready version	July 25th
Deadline for early registration	Aug 1st
Workshop	Sept 14th