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
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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