

Call For Papers
IEEE Transactions on Biomedical Engineering (TBME) Special Issue on TBME Full Papers and TBME Letters on
Surgical Robotics
(Tentative Publication Date: January 2013)

Guest Editors:

Purang Abolmaesumi, Ph.D., P.Eng.
Canada Research Chair, Biomedical Engineering
Associate Professor, Department of Electrical and Computer Engineering
The University of British Columbia, Canada
Email: purang@ece.ubc.ca

Gabor Fichtinger, Ph.D.
Professor and Cancer Care Ontario Research Chair
Queen's University, School of Computing,
Adjunct Professor of Computer Science and Radiology
Johns Hopkins University, Baltimore, MD, USA
Email: gabor@cs.queensu.ca

Terry M Peters PhD
Scientist, Robarts Research Institute
Professor, Medical Imaging, Medical Biophysics, Biomedical Engineering
University of Western Ontario, Canada
Email: tpeters@robarts.ca

Ichiro Sakuma, Ph.D.
Professor, Department of Precision Engineering, School of Engineering
The University of Tokyo, Japan
E-mail: sakuma@bmpe.t.u-tokyo.ac.jp

Guang-Zhong Yang, Ph.D.
Professor and Director, The Hamlyn Centre for Robotic Surgery
Imperial College London, London, UK
Email: g.z.yang@imperial.ac.uk

IEEE Transactions on Biomedical Engineering (TBME) is pleased to announce a Special Issue of Full Papers and TBME LETTERS on "Surgical Robotics" to be published in January 2013. The Special Issue will include full papers (up to 7 printed pages) on novel technologies and medical applications with full validation and evaluation; and TBME Letters (up to 4 printed pages) aimed at fast publication of the latest research with strong preliminary evidence of feasibility, but before extensive validation studies are performed.

Surgical robotics has emerged as an exciting area with significant growth and promise to offer improved therapeutic and diagnostic outcomes. Successful surgical applications of robotics utilize adaptive and modular system design with integrated imaging, sensing, and real-time processing to provide accurate surgical navigation by harnessing both pre- and intra-operative data combined with effective human-machine interfaces. For this special issue we invite papers involving medical robotics, including but not limited to the areas: integrated medical robotic systems and clinical applications; mechatronic designs for medical robotics; human robot interaction and interfaces; surgical navigation; intra-operative imaging and biophotonics for robotic surgery; medical image computing, fusion and visualization; and computer assisted intervention.

Deadline for submission of manuscripts:	June 1, 2012
Peer-review comments will be returned to authors:	August 1, 2012
Submission of final version of accepted manuscripts due on:	September 15, 2012
Publication of Special Issue:	January 2013

More information about the Call for Papers, complete list of topics, and author instructions for manuscript submission are available on the website <http://tbme.embs.org/>. Any enquires should be directed to Guest Editors listed above or Atam Dhawan, Senior Editor In-Charge IEEE TBME Letters (dhawan@adm.njit.edu).