

APPENDIX XIII

CONFERENCE & SEMINAR PRESENTATIONS

by members of the Medical Physics Unit : 2011 calendar year (x 24)

(presenter is indicated by an asterisk *)

(the names of staff members of the MPU are underlined, students are indicated by †)

1. C. Mark*, G.B. Pike, *Hyperoxic versus hypercapnic BOLD calibration under precise end-tidal control to improve the estimation of oxygen consumption*, International Society of Magnetic Resonance Imaging Conference, Montreal, Québec, May 07-13, 2011.
2. J.S.W. Campbell*, P. MamayezSiahkal, P. Savadjiev, I.R. Leppert, K. Siddiqi, G.B. Pike, *A new comprehensive framework for probabilistic tractography of fanning fibres*, International Society of Magnetic Resonance Imaging Conference, Montreal, Québec, May 07-13, 2011.
3. I.R. Levesque*, N. Stikov, G.B. Pike, J.M. Pauly, *Drift in the magnetization transfer signal: Effect on quantitative MR experiments*, International Society of Magnetic Resonance Imaging Conference, Montreal, Québec, May 07-13, 2011.
4. S. Beriault*, F. Al Subaie, K. Mok, A.F. Sadikot, G.B. Pike, *Multi-modal MRI analysis for automatic trajectory planning of deep brain stimulation neurosurgery*, International Society of Magnetic Resonance Imaging Conference, Montreal, Québec, May 07-13, 2011.
5. M.M. Chakravarty*, R. Aleong, G. Leonard, G.B. Pike, L. Richer, S. Veillet, Z. Pausova, T. Paus, *Automated analysis of craniofacial morphology using magnetic resonance images*, International Society of Magnetic Resonance Imaging Conference, Montreal, Québec, May 07-13, 2011.
6. C.L. Tardif*, N. Stikov, I.R. Levesque, G.B. Pike, *Impact of three B1 mapping techniques on variable flip angle T1 measurements*, International Society of Magnetic Resonance Imaging Conference, Montreal, Québec, May 07-13, 2011.
7. N. Stikov*, C.L. Tardif, J.K. Barral, I.R. Levesque, G.B. Pike, *T₁ mapping: Methods and challenges*, International Society of Magnetic Resonance Imaging Conference, Montreal, Québec, May 07-13, 2011.
8. E Mitrou†*, A. Alexander, J. Thebaut, F. DeBlois, *Monte Carlo based electron beam treatment planning for breast cancer*, European Society for Therapeutic Radiology & Oncology (ESTRO), London, United Kingdom, May 08-12, 2011.
9. T. Connell†*, A. Alexander†, J. Seuntjens, *Experimental feasibility study on the use of scattering foil free beams for modulated electron radiotherapy*, Therapy Short Oral - Treatment Delivery & Verification: Electrons & Photons, Joint Annual Meeting of the Canadian Organization of Medical Physicists (COMP) & the American Association of Physicists in Medicine (AAPM), Vancouver, British Columbia, July 31-August 04, 2011 [SU-C-BRA-4].
10. I. El Naqa*, *An anomaly detector for radiotherapy quality assurance using machine learning*, American Association of Physicists in Medicine (AAPM), Vancouver, British Columbia, July 31-August 04, 2011.
11. I. El Naqa*, *Investigation of joint registration/segmentation for multimodality target definition in image-guided radiotherapy*, American Association of Physicists in Medicine (AAPM), Vancouver, British Columbia, July 31-August 04, 2011.
12. I. El Naqa*, *Monte Carlo role in radiobiological modeling*, 4th International Workshop on Recent Advances in Monte Carlo Techniques for Radiation Therapy, Montreal, Québec, June 10, 2011.
13. N. Stikov, B. Sveinsson, C.L. Tardif, R. Dougherty, G.B. Pike, *Modeling MR-based g-ratio measurements in demyelinating diseases*, 17th Annual Meeting of the Organization for Human Brain Mapping, Quebec City, Québec, June 26-30, 2011.
14. C.I. Mark*, G.B. Pike, *Precise control of hyper-oxic and -capnic BOLD calibration for improved oxygen consumption estimates*, 17th Annual Meeting of the Organization for Human Brain Mapping, Quebec City, Québec, June 26-30, 2011.
15. M.M. Shiell*, F. Champoux, G.B. Pike, R.J. Zatorre, *Differences in white-matter organization after early auditory deprivation revealed by magnetization transfer imaging*, 17th Annual Meeting of the Organization for Human Brain Mapping, Quebec City, Québec, June 26-30, 2011.

16. G.I. Angelis*, J.C. Matthews, P.J. Markiewicz, F. Kotasidis, W.R. Lionheart, A.J. Reader, *Acceleration of image-based resolution modeling reconstruction nusing an expectation maximization nested algorithm*, Fully 3D Meeting on Image Reconstruction, Potsdam, Germany, July 11-15, 2011.
17. E.T. Soisson, S. Rajakesari, H.J. Patrocino, C.R. Freeman, *A treatment technique for paediatric retinoblastoma using tomotherapy based stereotactic radiotherapy*, International Symposium on Radiopharmaceutical Sciences (ISRS), Amsterdam, Netherlands, August 28-September 02, 2011.
18. I. El Naqa*, J. Bradley, J. Oh, J. Craft, J. Deasy, *Investigation alpha-2-macroglobulin and its dosimetric interactions for predicting radiation therapy*, 53rd Annual Meeting of the American Society for Therapeutic Radiology Oncology (ASTRO), Miami Beach, Florida, October 02-06, 2011.
19. G.I. Angelis*, J.C. Matthews, F.A. Kotasidis, P.J. Markiewicz, W.R. Lionheart, A.J. Reader, *Evaluation of a direct 4D reconstruction method using GLLS for estimating parametric maps of micro-parameters*, IEEE Nuclear Science Symposium, Valencia, Spain, October 23-29, 2011.
20. F.A. Kotasidis*, J.C. Matthews, G.I. Angelis, P.J. Markiewicz, W.R. Lionheart, A.J. Reader, *Impact of erroneous kinetic model formulation in direct 4D image reconstruction*, IEEE Nuclear Science Symposium, Valencia, Spain, October 23-29, 2011.
21. J. Verhaeghe*, A.J. Reader, *Simultaneous water activation and glucose metabolic rate imaging with PET*, IEEE Nuclear Science Symposium, Valencia, Spain, October 23-29, 2011.
22. F.A. Kotasidis*, G.I. Angelis, J. Henderson, A. Buckley, P.J. Markewicz, M. Green, J. Anton-Rodriguez, W.R. Lionheart, A.J. Reader, J.C. Matthews, *Evaluation of image based spatially variant and count rate dependent point spread functions on the HRRT PET scanner*, IEEE Nuclear Science Symposium, Valencia, Spain, October 23-29, 2011.
23. P. Gravel*, J. Verhaeghe, A.J. Reader, *Direct 3D PET image reconstruction into MR image space*, IEEE Nuclear Science Symposium, Valencia, Spain, October 23-29, 2011.
24. I. El Naqa*, *An SVM anomaly detector for radiotherapy quality assurance using machine learning*, 10th International Conference on Machine Learning & Applications (ICMLA), Honolulu, Hawaii, December 18-21, 2011.