

Segmentation of Anatomical Soft Tissue Regions in Medical Data

One Day BMVA symposium at the British Computer Society, 5 Southampton Street,
London, WC2E 7HA, UK on December 5, 2008

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Chairs: Reyer Zwiggelaar (Aberystwyth University) and Xianghua Xie (Swansea University)

09.30 *Registration and Coffee*

10.00 *Invited Talk*

[Introduction to spectral clustering: examples in brain tissue classification](#)

W.R. Crum (Centre for NeuroImaging Sciences, King's College London)

10.50 *Atlases and Spaces*

[Establishing normative values of brain regional volumes across the human lifespan](#)

S. Keihaninejad, et al. (Division of Neuroscience, Imperial College London)

[Subcortical structure segmentation with 3D AAMs and local regressors](#)

K.O. Babalola, et al. (ISBM, The University of Manchester)

[Segmenting lumbar intervertebral discs from spine MRI](#)

S. Michopoulou, et al. (Department of Medical Physics, University College London)

[Sequential segmentation and simultaneous on-line shape learning](#)

J. Chiverton, M. Mirmehdi and X. Xie (Department of Computer Science, University of Bristol)

[Nonlinear dynamics for statistical shape modeling and semiautomatic segmentation](#)

T. Shepherd and D.C. Alexander (Department of Computer Science, University College London)

12.30 *Lunch*

13.10 *Invited Talk*

Segmentation and diffusion MRI: opportunities and challenges

D.C. Alexander (Department of Computer Science, University College London)

14.00 *User Interaction and Data Driven Segmentation*

[Interactive segmentation based on on-line SVMs accelerated by general-purpose GPUs](#)

I.S. Lim (School of Computer Science, Bangor University)

[Segmentations of 3D vasculatures for interventional radiology simulation](#)

V. Luboz, et al. (Department of Biosurgery and Surgical Technology, Imperial College London)

[ROF based segmentation of the liver in CT images](#)

J.F. Garamendi, N. Malpica and E. Schiavi (LAIMBio, Universidad Rey Juan Carlos)

[Liver segmentation using a model based initial segmentation estimation](#)

Y. Song, A. J. Bulpitt and K. Brodlie (School of Computing, University of Leeds)

15.20 *Tea and Posters (Networking Opportunity and Further Discussion)*

16.10 *Panel Discussion*

16.30 *Closing Remarks*

REGISTRATION FORM: 5th December 2008 Meeting

Please return this form to BMVA Secretary, Royston Parkin, 95 Queen Street, Sheffield, S1 1WG, Tel 0114 272 0306, Fax 0114 272 6158 or via email to BMVA@roystonparkin.co.uk. The meeting is free to members of the BMVA but a charge of £20 is payable by non-members. A sandwich lunch is available at a cost of £5 and should be booked in advance. When registering please enclose a cheque for the appropriate amount made payable to "The British Machine Vision Association".

NAME:

ADDRESS:

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TEL: BMVA MEMBER: YES/NO

email: LUNCH: YES/NO

VEGETARIAN: YES/NO