

- 358 SA-PM **Automated Hippocampal Segmentation and Mapping Reveals Genetically Accelerated Tissue Loss in 1-year Repeat MRI data from 490 Alzheimer's Disease, MCI, and Control Subjects**, *J H Morra, Z Tu, L G Apostolova, A E Green, C Avedissian, S K Madsen, N Parikshak, A W Toga, C R Jack, N Schuff, M W Weiner, P M Thompson, Laboratory of Neuro Imaging, UCLA, Los Angeles, CA, USA*
- 360 SA-PM **A comparison of automated volumetric methods and hand-tracing of the hippocampus and amygdala**, *JL Hanson, TR Oakes, MJ Sutterer, SM Schaefer, BM Nacewicz, JZ Kirkland, SD Pollak, RJ Davidson, Waisman Laboratory for Brain Imaging and Behavior, University of Wisconsin-Madison, Madison, WI, USA*
- 362 SA-PM **Can tissue segmentation improve registration? A study of 92 twins**, *Y.Y. CHOU, N. Lepore, C. Brun, M. Barysheva, K. McMahon, G.I. de Zubicaray, M.J. Wright, A.W. Toga, P.M. Thompson, Laboratory of Neuro Imaging, Department of Neurology, UCLA, Los Angeles, CA, USA*
- 364 SA-PM* **Segmenting the subregions of the human hippocampus at 7 Tesla**, *M Chupin, S Lehericy, D Hasboun, O Colliot, U Goerke, M Marjanska, K Ugurbil, P-F van der Moortele, UPMC Paris6, UMR S975 CNRS, Paris, France*
- 366 SA-PM **A new fuzzy clustering-based segmentation of heterogeneous 18F-FET PET tumors for definition of gross target volume in high-grade glioma**, *S Belhassen, CS Llina Fuentes, H Zaidi, Geneva University Hospital, Geneva, Switzerland*

MODELING AND ANALYSIS**Motion Correction/Spatial Normal, Atlas Construction**

- 368 SA-PM **Tractography-Driven Registration for Improved Within-Surface Correspondence in Brain Structures**, *A. Petrović, S.M. Smith, B. Patenaude, S. Jbabdi, M. Zarei, M. Jenkinson, Oxford University Centre for Functional MRI of the Brain (FMRIB), Dept. Clinical Neurology, University of Oxford, Oxford, United Kingdom*
- 370 SA-PM **Evaluating the accuracy of cortical registration using landmark-based and automatic methods**, *D Pantazis, A Joshi, J Jintao, D Shattuck, L E Bernstein, H Damasio, R M Leahy, Signal and Image Processing Institute, University of Southern California, Los Angeles, CA, USA*
- 372 SA-PM **The Secret Life of Motion Covariates**, *JM Ollinger, TR Oakes, AL Alexander, F Haeberli, KM Dalton, RJ Davidson, University of Wisconsin-Madison, Madison, WI, USA*
- 374 SA-PM **A new pipeline for the generation of continuous probabilistic cytoarchitectonic maps**, *H. Mohlberg, A. Schleicher, L. Hömke, K. Zilles, K. Amunts, Institute of Neuroscience and Biophysics, INB-3, Research Center Jülich, Jülich, Germany*
- 376 SA-PM **Path-Length as a Metric for Subject Motion**, *JM Ollinger, TR Oakes, FB Haeberli, AL Alexander, RJ Davidson, University of Wisconsin-Madison, Madison, WI, USA*
- 378 SA-PM **Neuroimaging Workflow Construction, Execution, Validation and Interpretation using the LONI Pipeline**, *ID Dinov, DS Parker, C Hojatkashani, R Magsipoc, K Lozev, P Petrosyan, Z Liu, A MacKenzie-Graham, JD Van Horn, AW Toga, Laboratory of Neuro Imaging, UCLA School of Medicine, Los Angeles, CA, USA*
- 380 SA-PM **SPM normalization toolbox for voxel-based statistics on fractional anisotropy images**, *S Mohammadi *, V Glauche *, M Deppe, Department of Neurology, Muenster, Germany*
- 382 SA-PM **Effects of normalization approach and global covariates on voxel-based morphometry: Comparing DARTEL and standard SPM approaches using age-related cortical change**, *JE Peelle, R Cusack, RNA Henson, MRC Cognition and Brain Sciences Unit, Cambridge, United Kingdom*
- 384 SA-PM **A probabilistic MR atlas of the human cerebellum**, *J Diedrichsen, J H Balsters, J Flavell, E Cussans, N Ramnani, Bangor University, Bangor, United Kingdom*