

Dr. Silvester Czanner

Warwick Digital Laboratory
Warwick Manufacturing Group
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Education

- 2000 *postgraduate certificate in International Law and Diplomacy* at School of Law, Comenius University, SK
1999 *RNDr in Mathematics (Computer Graphics)* at School of Math and Physics, Comenius University, SK
1998 *PhD in Mathematics (Geometry and Topology)*, School of Math and Physics, Comenius University, SK
1994 *MSc (Mgr) in Mathematics (Computer Graphics) and Computer Science for Mathematicians* at School of Math and Physics, Comenius University, SK

Research Interests

Animation, computer graphics, geometric modeling, graphics, human-computer interaction, virtual reality, machine learning, medical applications, and parallel computing.

Awards

Research Councils United Kingdom (RCUK) Academic Fellowship 2007-2012

Recent Employment History

Research Councils UK Academic Fellow 01/07-present

Warwick Manufacturing Group, Warwick Digital Laboratory, University of Warwick, UK

- Computer Graphics Virtual Textbook
- Virtual Reality for the Efficient Treatment of Infants with Feeding Difficulties
- Multimodal Virtual Environments, 3D Visualization of Human Embryo Data

Senior Research Fellow 09/04-12/06

MGH/MIT/HMS Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital
Department of Radiology, Harvard Medical School, Boston, MA, USA

- member of the Morphometry Biomedical Informatics Research Network research team
- calibration of multi-site MRI structural and diffusion acquisition and correction methods

Research Systems Programmer 10/02-09/04

Pittsburgh Supercomputing Center, Biomedical Initiative, Carnegie Mellon University, Pittsburgh, PA, USA

- Human Visible Project, Deformable registration of 4D mouse embryo series
- Registration of *C. elegans* EM images, Mass spectral and proteomic applications

Selected Publications

1. R. Durikovic, **S. Czanner**, Editors of the *Proceedings: Spring Conference on Computer Graphics*, April 25-28, 2001, Budmerice, Slovakia, Published by the IEEE Computer Society, ISBN 0-7695-121-1, Los Alamitos, CA, USA, 2001
2. R. Durikovic, **S. Czanner**, Growth Animation of Human Organs, *The Journal of Visualization & Computer Animation*, Vol. 12, Issue 5, pp. 287-295, 2001
3. R. Durikovic, **S. Czanner**, Modeling with three types of Coons Bodies, *International Journal of Modelling & Simulation*, IASTED, Volume 24, Number 2, pp. 97-101, 2004
4. J. Jovicich, **S. Czanner**, D. Greve, E. Haley, R. Gollub, D. Kennedy, B. Fischl, A. Dale, Reliability in Multi-Site Structural MRI Studies: Effects of Gradient Non-linearity Correction on Phantom and Human Data, *NeuroImage*, 2006 Apr 1;30(2):436-43, 2006
5. R. Durikovic, **S. Czanner**, J. Parulek, M. Sramek, Heterogeneous Modeling of Biological Organs and Organ Growth, in the book on "*Heterogeneous objects modeling and applications*" by Springer Verlag, Series: Lecture Notes in Computer Science, Vol. 4889, Pasko, Alexander; Adzhiev, Valery; Comninos, Peter (Eds.), ISBN: 978-3-540-68441-1, HOMA, LNCS 4889, pp. 239-258, © Springer-Verlag Berlin Heidelberg 2008