

W. Brent Seales

Professor of Computer Science
University of Kentucky

Education

- Ph.D. University of Wisconsin August 1991 Computer Science
- M.S. University of Wisconsin May 1988 Computer Science
- B.S. University of Southwestern Louisiana May 1986 Computer Science

Employment

- **Gill Professor**, Dept. of Computer Science, University of Kentucky, Lexington, Kentucky, July 2007.
- **Director**, Center for Visualization and Virtual Environments, University of Kentucky, July 2007- present.
- **Research Director**, Center for Visualization and Virtual Environments, University of Kentucky, January 2007-July 2007.
- **Visiting Research Professor**, Dept. of Computer Science, University of North Carolina - Chapel Hill, Chapel Hill, North Carolina, 1998-99.
- **Associate Professor**, Dept. of Computer Science, University of Kentucky, 1997-date.
- **Assistant Professor**, Dept. of Computer Science, University of Kentucky, 1991-97.
- **Postdoctoral Researcher**, French National Institute for Research in Computer Science and Control (INRIA), Sophia-Antipolis, France, 1991-92.
- **Teaching Assistant followed by Research Assistant**, Department of Computer Science, University of Wisconsin, Madison, Wisconsin, 1986-91.

Recent Publications

- M. Field, D. Clarke, W.B. Seales, "Assessment of multi-spectral imaging for enhanced visualization in minimally invasive surgery," *The Society of American Gastrointestinal and Endoscopic Surgeons (SAGES) 2010. Emerging Technology Session, SAGES Annual Meeting 2010*, April 14-17, 2010.
- C. M. Carswell, C. H. Lio, R. Grant, M. Klein, W. B. Seales, S. Strup, and D. Clarke, "Hands-free administration of subjective workload scales: Acceptability in a surgical training environment", *Applied Ergonomics*, 42(1) pp. 138-145, 2010.
- M. Sublette*, C.M. Carswell, Q. Han, R. Grant, C. H. Lio, G. Lee, C.M. Clarke, and W.B. Seales, "Dual-View Displays for Minimally Invasive Surgery: Does the Addition of a 3-D Global View Enhance the Construction of Spatial Mental Models?" *Proc. of the Human Factors and Ergonomics Society (HFES) 54th Annual Meeting*, pp 1581-1585, Santa Monica, CA, September 2010.
- R. Baumann, and W. B. Seales, "Robust Registration of Manuscript Images", *Proc. of 9th ACM/IEEE-CS Joint Conference on Digital Libraries*, pp. 263-266, Austin, TX, June 2009.
- G. Landon* and W.B. Seales, "New Methods for Rock Art Recording and Virtual Analysis", in *Rock Art of the Caribbean*, edited by M.A. Cinquino, M.H. Hayward, and L.G. Atkinson. University of Alabama Press, 2009, ISBN-13: 978-0817316501.

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Recent Collaborations

1. Adrian Park, M.D., University of Maryland Medical Center
2. Michael Brown, Hong Kong University of Science and Technology
3. James Griffioen, University of Kentucky
4. Ken Calvert, University of Kentucky
5. Simon Lin, Academia Sinica, Taiwan
6. Chris Blackwell, Furman University
7. Greg Nagy, Harvard University
8. George Landon, Eastern Kentucky University

Graduate and Postdoctoral Advisors

1. Ph.D. Advisor: Chuck Dyer (University of Wisconsin)
2. Postdoctoral Advisor: Olivier Faugeras (INRIA Sophia-Antipolis)

Professional Activities

- **Reviewer:** SIGGRAPH, IEEE Transactions on Pattern Analysis and Machine Intelligence (PAMI); International Journal of Computer Vision (IJCV); Image and Vision Computer (I&VC); Wiley's Publishing
- **Program Committees:** Asian Conference on Computer Vision (ACCV); The International Society for Optical Engineering (SPIE); Networked Robotics and Sensor Fusion; Conference on Computer Vision and Pattern Recognition (CVPR)