

Ming Ouhyoung

Contact information

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Biographical and personal information

Born March 5, 1959, Taichung, Taiwan
Citizenship: Taiwan, ROC

Education

BS, MS: Electrical Engineering, National Taiwan University, Taipei, 6/1981 and
6/1985
Ph.D: Computer Science, University of North Carolina at Chapel Hill, 1/1990,
(thesis advisor: Frederick. P. Brooks, Jr.)

Experience

Military service, Second Lieutenant in the Army, Taiwan, 7/81-5/83
MTS, AT&T Bell Laboratories, Middle-town, NJ, 1/91-7/92.
Associate professor, Department of Computer Science and Information
Engineering, National Taiwan University, 8/91-7/95
Professor, Department of Computer Science and Information Engineering,
National Taiwan University, 8/95-
Co-founder, Cyberlink Inc. (Taiwan), a multimedia software company, 11/95,
public listed in TAISDAQ in 2000.
Director, Center of Excellence for Research in Computer Systems, College of
Engineering, National Taiwan University (8/1998-7/2000)
Chairman, Department of Computer Science and Information Engineering,
National Taiwan University, 8/2000-7/2002

Research Interests

Virtual Reality, Virtual Sculptor, 3D Object Retrieval, 3D Graphics, MPEG4
Facial Animation and Motion Tracking Force Feedback Devices/Molecular
Binding

Professional activities

General co-chair: ICAT 2000 (International Conference on Artificial Reality and Telepresence)

Members of program committee: ACM VRST (Virtual Reality Software and Technology) (2000, 2001, 2002, 2003)

Members of program committee: Pacific Graphics (1995-2003)

Members of program committee: ICAT (2001-2003)

Selected publications

Ding-Yun Chen, Ming Ouhyoung, Xiao-Pei Tian, Yu-Te Shen, "On Visual Similarity Based 3D Model Retrieval", to appear in Computer Graphics Forum 2003, (also to appear in EuroGraphics2003, Spain).

I-Chen Lin, Jeng-sheng Yeh, Ming Ouhyoung, "Reliable Extraction of Realistic 3D Facial Parameters from Mirror-Reflected Multi-view Video Clips", pp. 72-80, IEEE Computer Graphics and Applications, Vol. 22, No. 6, Nov., 2002.

Jiann-Rong Wu and Ming Ouhyoung, "On Latency Compensation and Its Effects for Head Motion Trajectories in Virtual Environments", pp. 79-90, Vol. 16, No. 2, The Visual Computer, 2000.

Yuong-Wei Lei, Ming Ouhyoung, "Carving: A Novel Method of Visibility Preprocessing for Unrestricted Three-Dimensional Environments", Vol. 13, pp.283-294, The Visual Computer, 1997.

Ming Ouhyoung, Yung-huei Yan, "A Three Dimensional Building Authoring Tool Based on Line-Drawing Understanding", Presence: Teleoperator and Virtual Environment, pp. 1-12, Vol. 5, No. 1, 1996, MIT Press.

Ming Ouhyoung, Wu-Nan Tsai, Ming-Chang Tsai, Jiann-Rong Wu, Chung-Hsi Huang, and Tzong-Jer Yang, "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, pp. 787-794, Aug. 1995.

Frederick P. Brooks, Jr., Ming Ouhyoung, James J. Batter, P. Jerome Kilpatrick, "Project Grope-- Haptic Displays for Scientific Visualization", Computer Graphics (ACM), Vol. 24, No.4, pp.177-185 (also in ACM SIGGRAPH90).

Margaret Minsky, Ming Ouhyoung, Oliver Steele, Frederick P. Brooks, Jr., Max Behensky, "Feeling and Seeing: Issues in Force Display", Computer Graphics (ACM), Vol.24, No.2, pp236-244.

Lin-shan Lee, Chiu-Yu Tseng, Ming Ouh-young, "The Synthesis Rules in a Chinese Text-to-Speech System", IEEE Trans. on Acoustics, Speech and Signal Processing, pp.1309-1320, Vol. 37, No. 9, 1989.

Jiann-Rong Wu, Cha-Dong Duh, and Ming Ouhyoung, "Head Motion and Latency Compensation on Localization of 3d Sound in Virtual Reality", Proc. of ACM Symposium on Virtual Reality and Software Technology 1997 (VRST'97), pp.15-20, Lausanne, Switzerland, 1997.

Leuo-hong Wang, Cheng-yan Kao, Ming Ouhyoung, Wen-chin Chen, "Molecular Binding: A Case Study of the Population-Based Annealing Genetic Algorithm", Proc. of ICEC'95 (1995 IEEE International Conference on Evolutionary Computing), pp. 41-50, Australia, Nov. 1995.