

R.I.T

College of Science

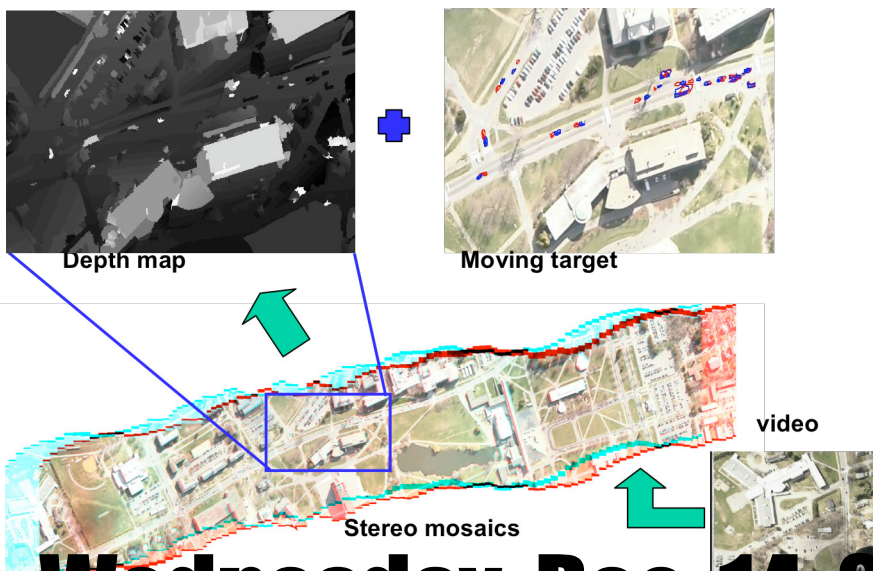
Chester F. Carlson

Center for **IMAGING** SCIENCE

Seminar Series

3-D Video Mosaicing and Content Extraction for Surveillance and Inspection

Zhigang Zhu, Associate Professor, Comp. Science, CCNY



4pm, Wednesday, Dec. 14, 2005

Auditorium of the Center for Imaging Science

We address the problem of fusing images from many video cameras or a moving video camera. They are aligned and integrated into mosaics. A pushbroom stereo mosaic representation can re-organize images into a set of parallel-perspective projections. Mosaics with various oblique views well represent occlusion regions not seen in a usual nadir view. Stereo pair(s) can be formed for 3D viewing and reconstruction.

www.cis.rit.edu/seminar

for up-to-date seminar schedule, video archives and abstracts.

Speaker Bio

Dr. Zhigang Zhu received his Ph.D. degree in computer science from Tsinghua University, Beijing, in 1997. He is currently an Associate Professor in the Computer Science Department at the City College of New York. Previously he was an Associate Professor at Tsinghua University and a Senior Research Fellow at the University of Massachusetts, Amherst. His research interests include 3D computer vision, Human-Computer Interaction (HCI), virtual / augmented reality, video representation, and various applications in education, environment, robotics, surveillance and transportation