

Bigography

Professor Ma conducts research in the area of data visualization. His work aims at improving scientists capability to gain insight into massive data and to effectively communicate with others their findings using visual means. Professor Ma received his PhD degree in computer science from the University of Utah in 1993. Before joining the faculty of UC Davis in 1999, he was with ICASE/NASA LaRC where he developed high-performance visualization solutions for aeronautic and aerospace applications. Professor Ma and his research team have introduced several highly scalable parallel rendering algorithms, novel interface designs, and large data visualization techniques. His work has enabled scientists to see their data at unprecedented clarity and precision, and to reveal and validate features hidden in the data. For his research accomplishments in large data visualization and parallel rendering, Professor Ma received the prestigious Presidential Early Career Award for Scientists and Engineers (PECASE) in 2000, and the Schlumberger Foundation Technical Award in 2001. Professor Ma has served on the IEEE Visualization Conference Committee during 1998-2004. He co-chaired the DOE/NSF Workshop on Large Data Visualization in 2000, and recently chaired two other NSF-sponsored workshops: one on visualization for security and the other on time-varying data visualization.