

Changyu Diao, PhD, Associate Professor in the Cultural Heritage Institute of Zhejiang University.

Dr. Diao's main research focuses on cultural relic digitization. After his Postdoctoral research in Computer Science at Zhejiang University, he joined the Cultural Heritage Institute in 2010, responsible to the researches on technologies of high definition digital information collections. He has participated and finished several national funding programs, including National Natural Science Foundation of China, National High Technology Research and Development Program ("863Program"), National Key Technology Support Program, "Tenth Five" National Program for Science and Technology, and etc. As the principal investigator, Dr. Diao has played the leading role in various equipment research and development, such as High Definition Relic 3D Scanner, Large Scale Painting Scanner, High Definition Mural Scanner and so on.

Lecture: High Definition Ancient Mural Digitization Technology.

Ancient mural painting is one of the most important type of cultural heritages. It is very difficult to digitize the mural painting due to the complexity of environment space and specular properties. In recent years, Zhejiang University achieved good results among the digitization project of mural painting in caves, temples and tombs. An introduction of the whole technical pipeline and customized designed equipment and software will be given during the lecture, and a discussion of practical operation rules in view of concrete problems will be proposed in the end.