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School Year 2009–2010
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Eleanor G. Rieffel

From Photographs to Models: the Geometry of Image-Based 3D Reconstruction



Santa Clara University*, Daly Science 206
Wednesday, October 14, 7:30 pm

From a set of pictures of a scene, how do people create 3D models of the scene? This talk introduces the mathematics behind image-based 3D model reconstruction. The talk will be highly visual, filled with geometric examples, tours of models, and videos of applications.

Eleanor G. Rieffel is a Senior Research Scientist at FX Palo Alto Laboratory. Prior to joining FXPAL, she was Busemann Assistant Professor in the mathematics department at USC. She has worked in diverse fields from image-based modeling to geometric group theory, bioinformatics, evolutionary computation, modular robot control, security, and quantum computation. Her book with Wolfgang Polak, *A Gentle Introduction to Quantum Computing*, will be published by MIT next year.



* See back for map and directions.

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