Constrained Part Assembly

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Venue:
Room 328
Chow Yei Ching Building
The University of Hong Kong

Abstract:
In recent years part assembly has been popular for shape synthesis by combining parts from different objects. In this talk, I will focus on the problem of constrained part assembly, i.e., selecting and assembling parts towards a given target shape. I will show its applications to structure recovery from depth scans, sketch-based 3D scene synthesis, mechanical 3D collage, and semantic interpretation of freehand sketches.

About the Speaker:
Hongbo Fu is an Associate Professor in the School of Creative Media, City University of Hong Kong. Before joining CityU, he had postdoctoral research trainings at the Imager Lab, University of British Columbia, Canada and the Department of Computer Graphics, Max-Planck-Institut Informatik, Germany. He received the PhD degree in computer science from the Hong Kong University of Science and Technology in 2007 and the BS degree in information sciences from Peking University, China, in 2002. His primary research interests fall in the fields of computer graphics and human computer interaction. He has served as an associate editor of The Visual Computer, Computers & Graphics, and Computer Graphics Forum.