| Computer Science  
| 490.006/582.001  
| Advanced Computer Graphics  
| Spring 2013  
| Exam #2 Review  
| Exam Date & Time:  
| Monday, April 29, 2013,  
| 10:00 -11:40 AM  
|  
| Format: 100 points/100 minutes  
| Thirteen essay questions on the SIGGRAPH Asia papers that were presented.  
| • One 10-point question on the two 3D printing papers.  
| • Twelve 5-point questions on the twelve remaining papers.  
|   o Velocity/vorticity fluid simulation.  
|   o Adaptive anisotropic remeshing of cloth.  
|   o Character falling and landing.  
|   o Line-sampled hair simulation.  
|   o Adaptive sampling for soft shadows.  
|   o Morphogenesis of trees.  
|   o Gaze correction.  
|   o Binocular facial performance capture.  
|   o Full-body performance capture.  
|   o Joint-based deformers for skinning.  
|   o RigMesh interactive modeling.  
|   o Smooth skinning decomposition with rigid bones.  
| Three 10-point essay questions on the research paper assignment  
| • The pros and cons of selecting your own topic.  
| • The pros and cons of the three-stage (annotated-bibliography/extended-abstract/final-paper) approach.  
| • The pros and cons of presenting the literature survey topics in class (instead of the second SIGGRAPH Asia presentation).  
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