ビジュアルコンピューティングセミナー2018-04

下記の要領で，今年度第 4 回のセミナーを開催しますのでご参集ください.
※本講演は，ACM VRCAI2018 における Keynote 2（慶應義塾大学三田キャンパス，12 月 3 日）に
　準じた内容です.

日　時：平成 30 年 12 月 13 日（木）13:30-15:00

場　所：慶應義塾大学 矢上キャンパス 厚生棟 3F 大会議室

題　目：Simple Solutions for Complex Virtual Worlds

講　師：Dr. Cem Yuksel

　　　　Assistant Professor, School of Computing,

　　　　University of Utah, USA

　　　　http://www.cemyuksel.com/

要　旨：The problem of representing the real world in virtual environments requires tackling its immense complexity. However, most of this complexity is entirely irrelevant for creating realistic virtual experiences. Modeling the complexity beyond our perception is merely a waste of limited computational resources and hinders our ability to represent more of the real world. In this talk, I will present the research philosophy I follow for developing simple solutions to complex graphics problems by identifying the visually relevant components of the real world and providing simpler models with similar perceived complexity. I will present examples from my past and ongoing research projects, and explain how orders of magnitude faster solutions can be found when the problem itself can be simplified at the theory level, prior to considering an algorithm.

講師略歴：Cem Yuksel is an assistant professor in the School of Computing at the University of Utah. He is the founder of Cyber Radiance LLC, a computer graphics software company, and he developed Hair Farm, a leading hair modeling, animation, and rendering software plugin that is used by thousands of production studios and independent artists. His research interests are in computer graphics and related fields, including physically-based simulations, realistic image synthesis, rendering techniques, global illumination, sampling, GPU algorithms, graphics hardware, modeling complex geometries, knit structures, and hair modeling, animation, and rendering. He is staying as a visiting associate professor at Faculty of Science and Technology, Keio University in 2018.

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