ビジュアルコンピューティングセミナー2018-03

下記の要領で，今年度第 3 回のセミナーを開催しますのでご参集ください．

日　時 ：平成 30 年 7 月 24 日（木）16:00-17:30

場　所 ：慶應義塾大学 矢上キャンパス 14 棟 213 号室

題　目：High-dimensional Network Visualization and Its Interaction Technique

講　師 ：脇田　建 氏（東京工業大学 情報理工学院　准教授）

要　旨：Interactive, high-dimensional graph visualization technique was proposed by H. Hosobe in 2004. The technique is based on a high-dimensional embedding of a graph structure based on classical MDS. The projection of the high-dimensional layout on the (low-dimensional) visual display gives the visualization of the graph. The user can interact with this visualization using a pointing device by dragging an arbitrary node to an arbitrary direction, that triggers the rotation of the high-dimensional graph layout and causes dramatic morph of the whole graph layout. When this technique is applied to social graphs, this operation produces an animation that extracts meaningful subcomponents out of a giant hairball with a few dragging operations. The talk demonstrates an interactive visualization system called "Social Viewpoint Finder", explans the theory behind the graph embedding and the interaction technique, implementation techniques that add fluid user experience to the visualization system, and current related research directions.

講師略歴：Ken Wakita received his D.Sc. on "Continuations and Concurrent Transactions: Extensible Language Constructs for Concurrent Computing" from the University of Tokyo in 1997. He has been working for Tokyo Institute of Technology (Tokyo Tech) since 1994, now an associate professor. His interests include information visualization, graph drawing, and software development.

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