

ITO, Takayuki

Department of Information Sciences / Center for Simulation Sciences

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■ Researcher information

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Major

Visualization, Multimedia, 3D geometric processing

■ Research topics

Information Visualization

Keywords

Bioinformatics, Drug discovery, Simulation, Security, Multimedia

Contents

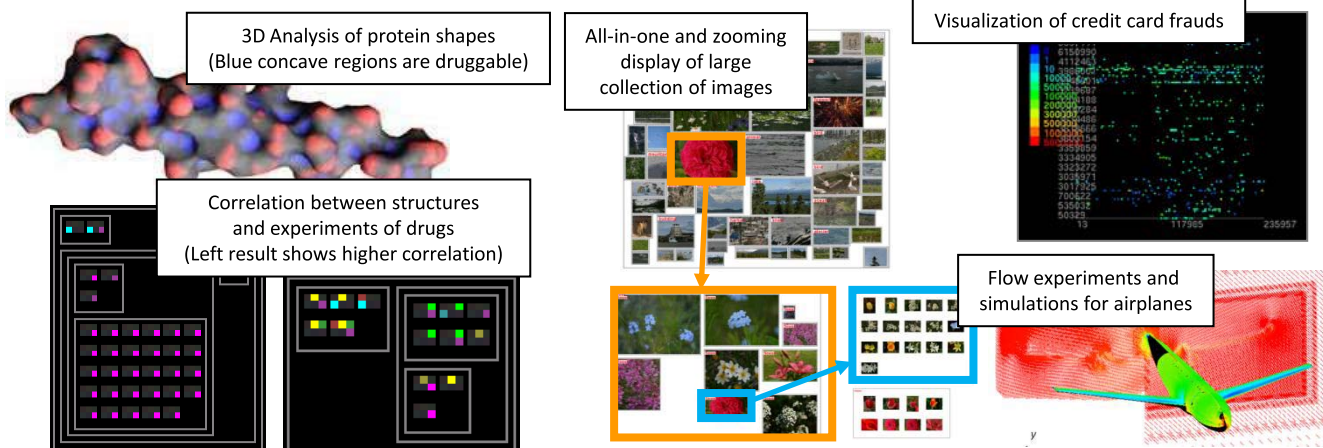
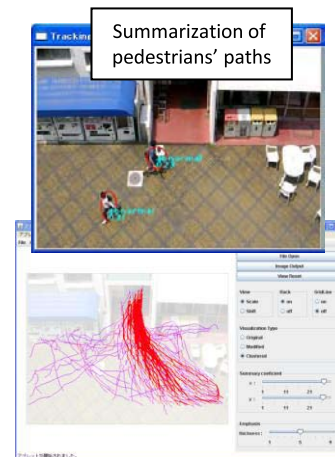
■ We focus on information visualization to assist intuitive understanding of information, including natural sciences (e.g. bioinformatics, drug discovery, scientific simulation) Information), literature and social sciences, and daily information (e.g. multimedia contents).

■ Following are examples of our research works:

- 1) Visualization for bioinformatics (e.g. gene network) and drug discovery (e.g. 3D shape analysis of proteins).
- 2) Visualization for scientific simulations (e.g. aerospace fluid experiments & simulations, human heart simulation).
- 3) Visualization for human observation (e.g. credit card fraud detection, pedestrians' paths, Web access patterns).
- 4) User interface for multimedia. Browsers for large collections of photographs and music.

INFORMATION
SCIENCES

Information
Visualization



Intellectual properties (Patents, computer programs), productization, publications and social/industrial contributions

- Software "HeiankyoView" (3 license agreements)
- Patent Application 2008-299363

Potential of social/industrial contribution

■ Joint research/ licensing / technical consulting / knowledge sharing (open courses, workshops, publications)