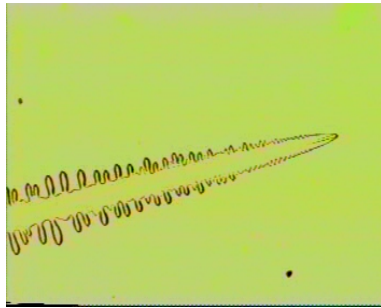


Analysis of Structures in Natural and Social World

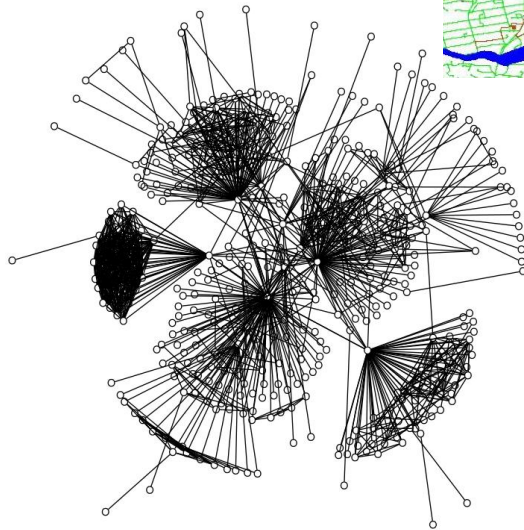
Associate Professor Atsushi Tanaka



Simulation of evacuation in river flooding.



Research for growing dendrite.



Network structure of friendship relation in SNS for college students.

Content:

We sometimes encounter the phenomena in the world that if a huge amount of tiny and poor particles gathers, an unexpected shape emerge or an excellent system is constructed.

In recent years, they are applied to optimization problem, which is important for engineering, and testing for robustness of the system from the relationship among people or objects.

In our laboratory, we research the mechanisms of several phenomena and analysis of the structure of networks using the concepts of complex systems. Moreover for the application of optimization problem, we work on problems of evacuation in a disaster and delivery and so on.

In network analysis, we are collaborating other field researchers like sociologists or economists in the spirit of no constraint of engineering.

Appealing point:

The unheard-of interdisciplinary research is my principle.

Especially, my strong point is that I can analyze and simulate several kinds of phenomena.

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