

Center for Socio-Global Informatics

[Cyber-Physical Systems based on Deep Understanding of Human Activities]

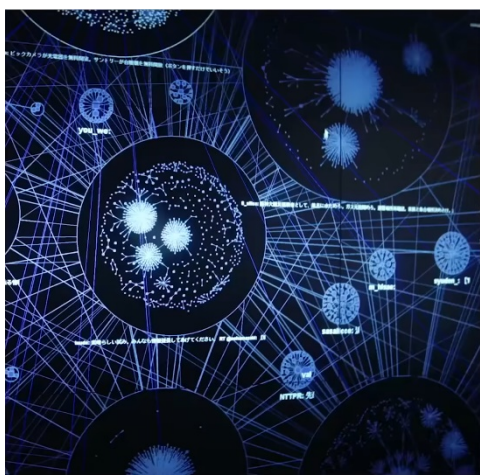
<http://www.csgi.iis.u-tokyo.ac.jp>

Director: Yoichi SATO Vice Director: Masashi TOYODA

Center for Socio-Global Informatics aims to establish and advance the emerging field of socio-global informatics on the integration of the cyber and physical worlds based on deep understanding of human activities at various levels ranging from each person to a society. Period of installation: April 2013 ~ March 2023

TOYODA Lab. Ew-503

- Web mining
- Web solutions
- Big data platform for mobility data analysis
- Large scale information visualization
- Advanced user interface



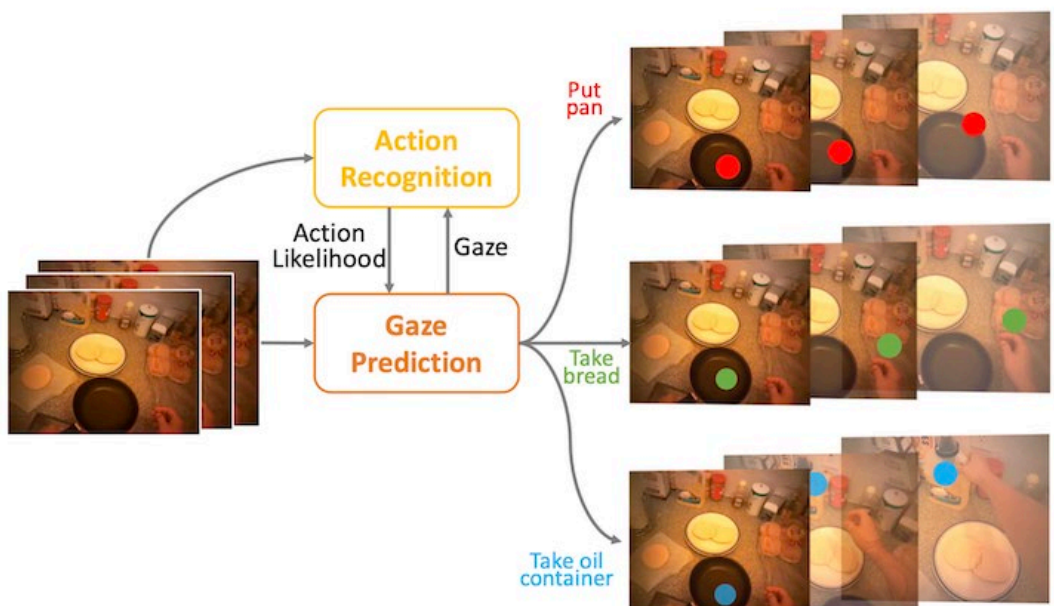
Visual analysis of information diffusion on Twitter



Visual analysis for assessing the risk of traffic accident

Y. SATO Lab. Ee-402

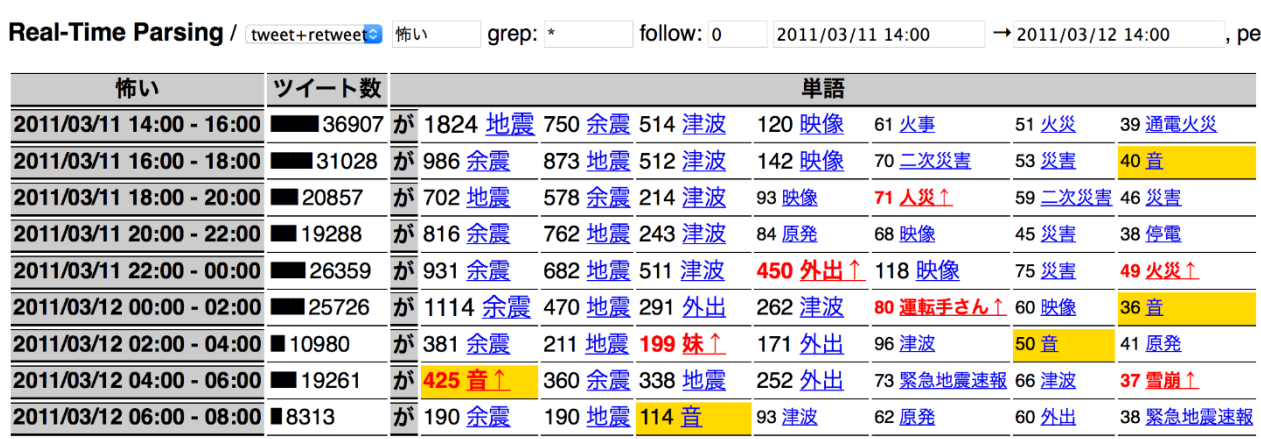
- Computer vision
- Human activity recognition
- Gaze sensing and analysis
- Reflectance analysis and material recognition



Understanding human attention and actions from first-person videos

Yoshinaga Lab. Ew-503

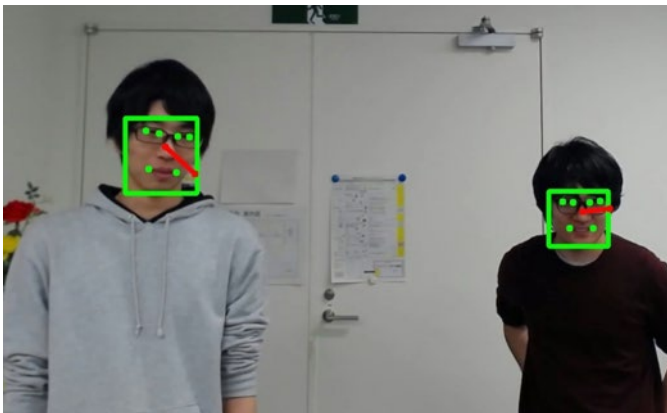
- Natural Language Processing
- Computational Linguistics
- Efficient Real-World Text Analysis
- Machine Translation and Dialogue System



Public emotions on microblogs

SUGANO Lab. Ew-406

- Gaze estimation and user understanding
- Computer vision and machine learning for HCI
- Interactive image and media understanding



Gaze estimation with machine learning

GODA Lab. Ew-503

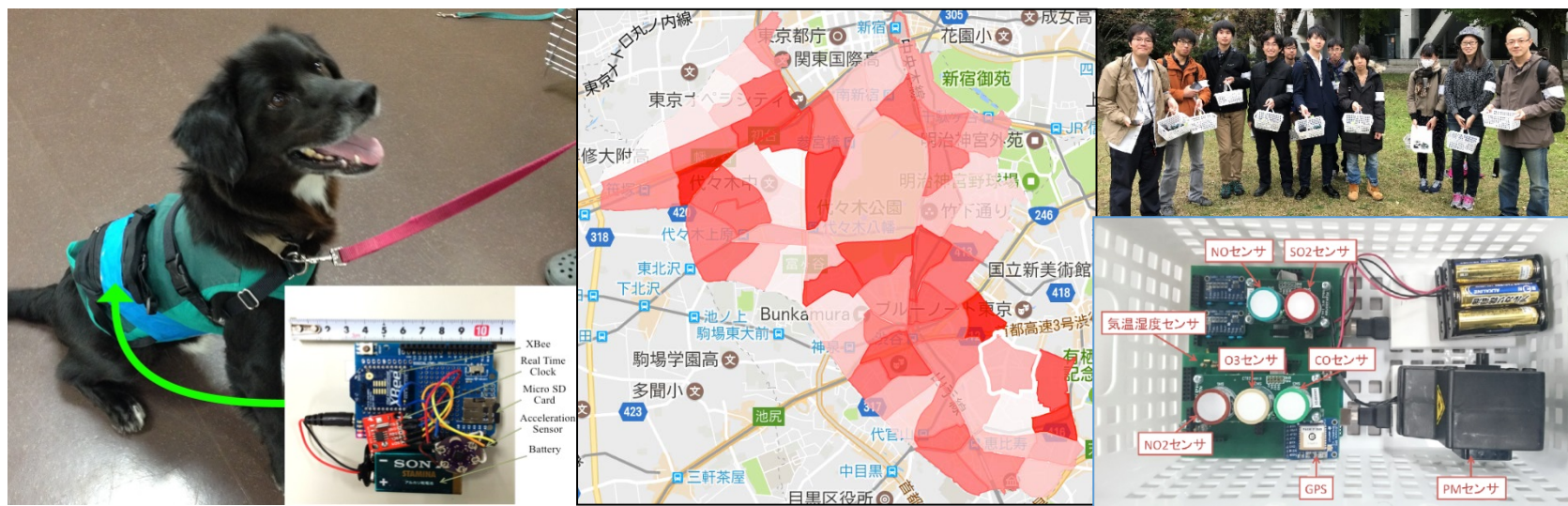
- Super-fast Database Systems
- Energy-efficient Database Systems
- Intelligent Storage Systems



Prototype of Super-fast Database Engine

SEZAKI Lab. Ew-601

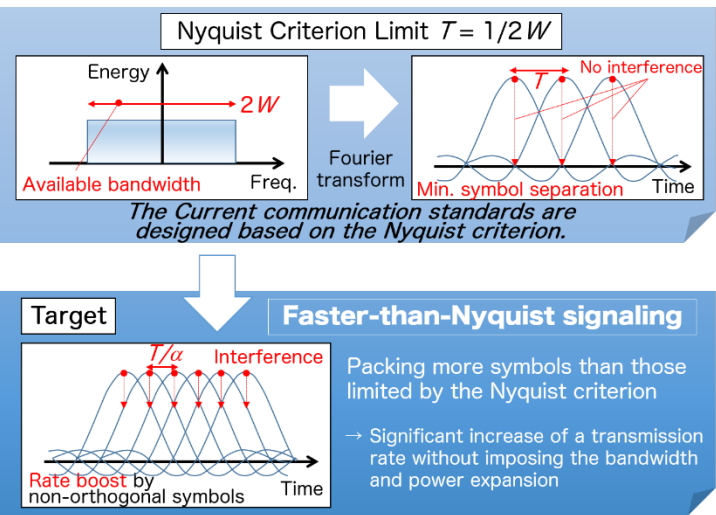
- Urban environment sensing
- User mobility analysis
- Wireless sensor networks
- Privacy preserving in sensing



Environmental monitoring for urban and natural environment

SUGIURA Lab. Ew-401

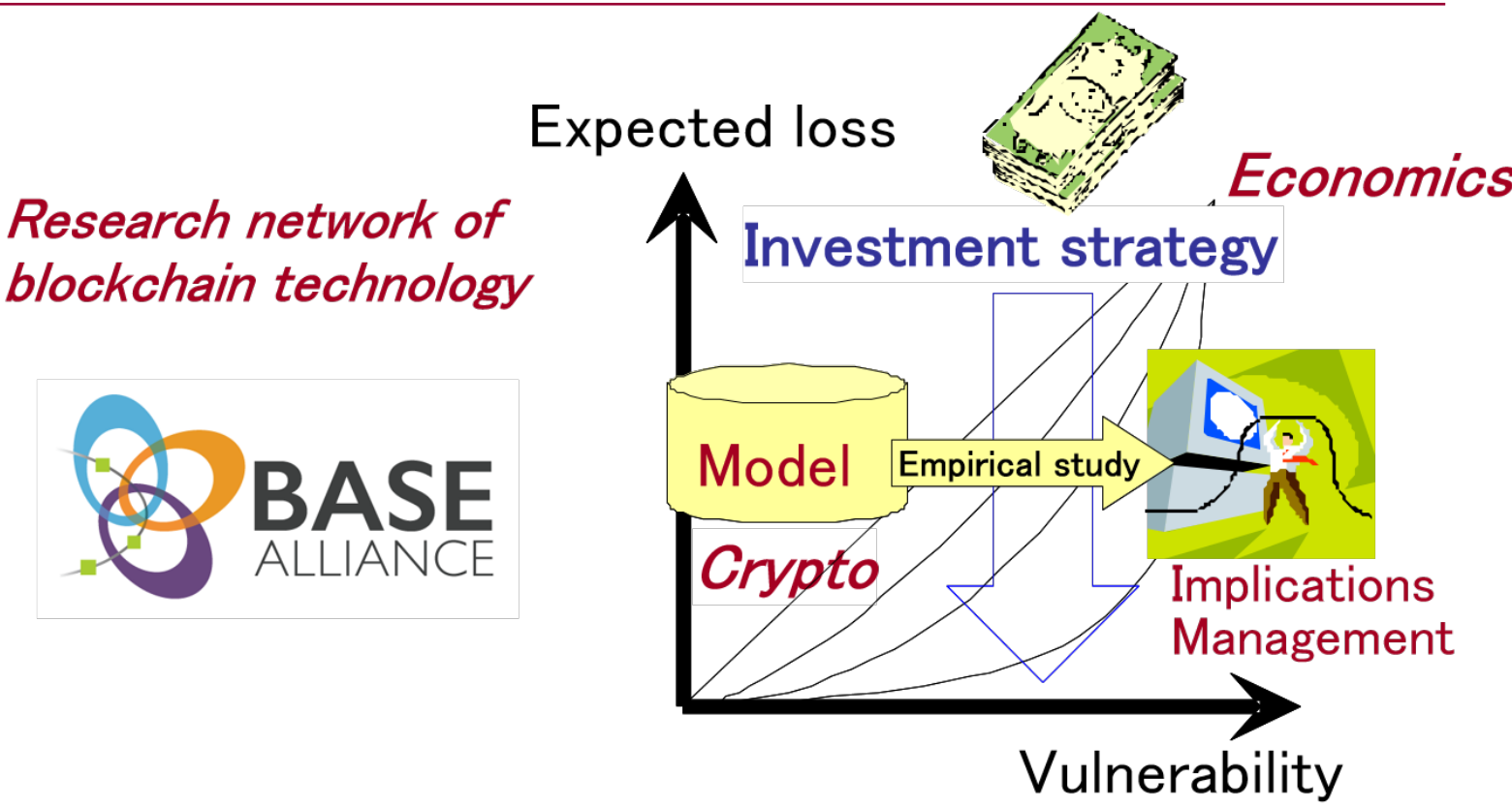
- Wireless Communication Networks
- Wireless Security
- Digital Signal Processing
- Distributed Storage



Faster-than-Nyquist signaling

MATSUURA Lab. Ew-401

- Cryptography
- Cybersecurity
- Anonymous communication system
- Economics of information security



KAMIJO Lab. Ew-403

- GNSS Positioning
- 3D Map Construction
- Vehicle Self-localization
- Traffic Scene Understanding
- Intelligent Applications in Smartphones and Smart Glasses
- Customer Behavior Recognition
- V2V, V2P Communication
- Traffic Surveillance

