

SIG: Data-Driven Cognitive Networks (D²CN)

Li-Chun Wang,
Department of Electrical and
Computing Engineering,
National Chiao Tung University

Data-Driven Cognitive Networks (D²CN)



Chair:

Li-Chun Wang,

**Department of Electrical and
Computing Engineering,
National Chiao Tung University**

lichun@cc.nctu.edu.tw



Vice Chair:

Yong Li

**Dept. of Electronic
Engineering,
Tsinghua University**

Liyong07@tsinghua.edu.cn



Vice Chair:

Steve Uhlig

**EECS
Queen Mary University of
London**

steve.uhlig@qmul.ac.uk

Scope and Objectives

- Data are collected from various sources, including radio channels, user locations, service access data, social networking data, network-status and management data.
- A revolution in CRN from a traditional knowledge-driven CRN into a more powerful data-driven CRN
- This sig provides a platform on the development of DDCN, including key technologies, data sharing opportunities and future research directions.

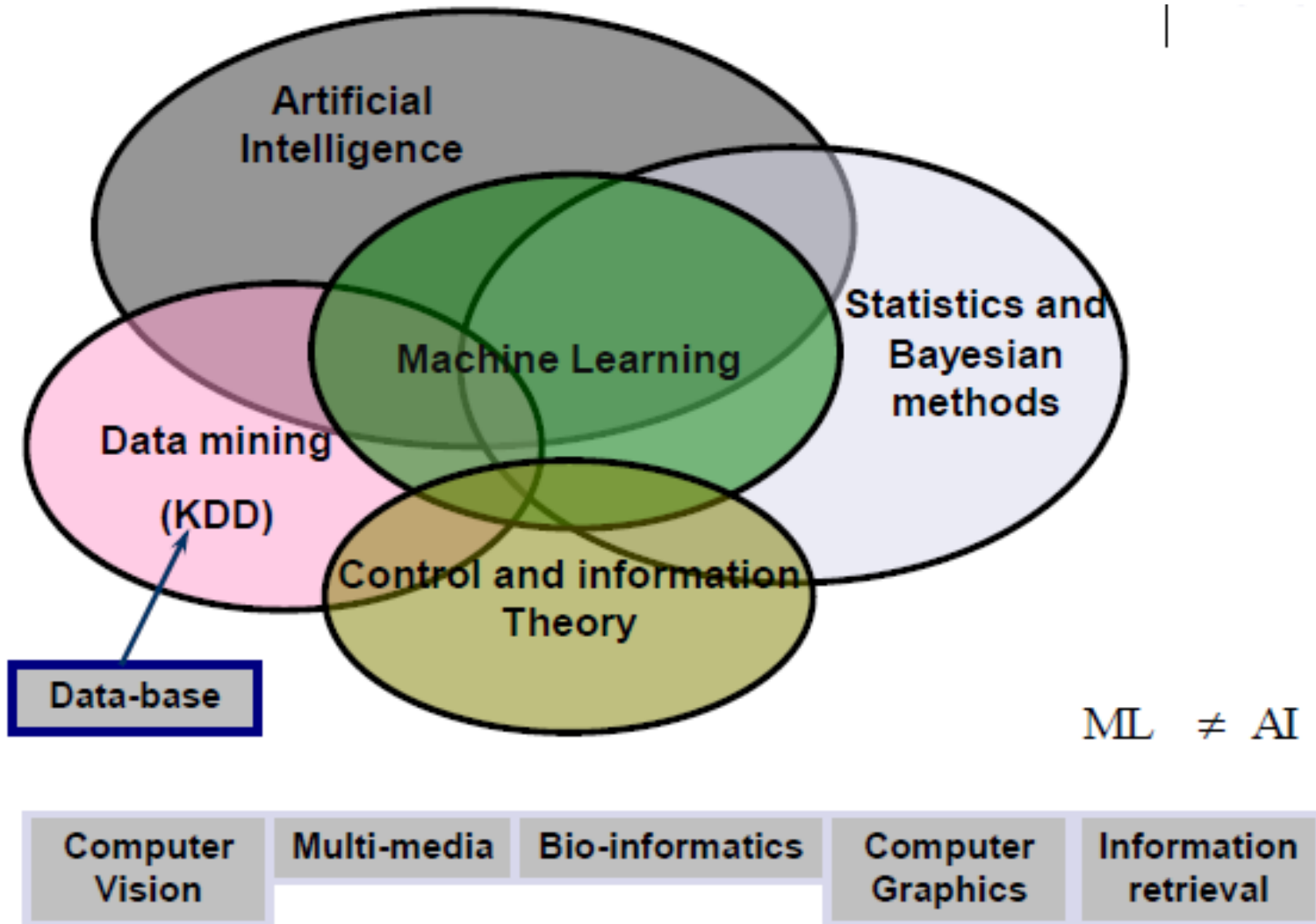
Activities

- **Propose Workshops**
 - IEEE conference of ICC, GLOBECOM, INFOCOM, etc.
- **Propose Special Issues**
 - IEEE JSAC, IEEE Trans. on Cognitive Network, Trans. On Big Data, IEEE Communications Mag., Signal Processing Mag., etc.
- **Organizing regular meetings**
- **Invited talks from this area**
- **Building data-sharing community and organize competitions:**
- **Maintain IEEE TCCN D2CN SIG Website:**
- **<https://www.linkedin.com/groups/13516608/profile>**

Senior Advisor and Members

- **Senior Advisor**
 - Ekram Hossain, University of Manitoba (cognitive radio network)
 - Jon Crowcroft, University of Cambridge (networking)
 - Phillip Yu, University of Illinois Chicago (data mining/machine learning)
 - Sheng Chen, University of Southampton (communications)
 - HT Kung, Harvard University, Harvard University (machine learning/parallel computing/network)
- **10+ founding members**
 - Pan Hui, Hong Kong University of Science and Technology
 - Meeyoung Cha, KAIST
 - Bo Han, AT&T Labs Research
 - Sue Moon, KAIST
 - Jörg Ott, Technische Universität München
 - Kun Tan, Huawei Technologie
 - Yan Chen, Fudan University
 - Hong-Han Shuai, National Chiao Tung University.
- Please suggest more~~

Data-driven Related Techniques



Thanks!

Li-Chun Wang,
Department of Electrical and
Computing Engineering,
National Chiao Tung University