Joint *DIJ NIRA* Workshop

In cooperation with
Japan Forum for Innovation and Technology at UC San Diego
Max Planck Institute for Innovation and Competition in Munich

Thursday, 1 November 2018, 13.30 – 18.30
Yebisu Garden Place Tower 4F, Space 6 Room A1
Ebisu 4-20-3, Shibuya-ku, Tokyo 150-6018

Big Data
– the new competitive paradigm. How well is Japan prepared?

Big data will be at the heart of the digital revolution. Social networks, factories, supply chains, digital market places, "shared economy" platforms, medical devices, wearables, smart homes, seismic instruments, weather stations and GPS satellites – in the digitalized and connected world data have become abundant. Rapidly developing tools to integrate and analyze large volumes of diverse datasets in ever faster and intelligent ways open up enormous potentials for research, private enterprises and public policy. The Japanese government harbors high expectations that Japan's industry will play a leading role in advancing technological solutions and in exploiting the newly emerging business opportunities. The country's competitive edge in sensor technology and ICT hardware, its advanced telecommunication networks and the pressing needs created by the exposure to natural disasters and a fast ageing and declining population are expected to give Japan a lead.

Our half-day workshop explores how Japan is building the infrastructures to efficiently and responsibly gather, integrate, analyze, use and trade data. The workshop is organized around three panels. The first panel will ask where corporations and the government in Japan see the most promising applications for big data. In what areas do private investments and/or government funding concentrate and where is the strongest impact expected? The second panel will look at the new market infrastructure needed to combine and aggregate data. How far are existing initiatives functioning? What barriers does the development of markets for big data confront? The third panel will discuss important legal implications, especially the question of data ownership and the competitive effects of dominant data collecting platforms and exclusive uses of data. While the workshop's focus will be on Japan, participating international experts will draw comparisons with Germany, the U.S., and China, in order to analyze Japanese approaches in the international context.

Each panel will consist of four speakers. They will start with short presentations by Japanese speaker with backgrounds in research, business and policy followed by an international perspective or general comment. A moderator will introduce and guide the speakers and coordinate the discussions.

Participation by invitation only.

**German Institute
for Japanese Studies**

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N|I|R|A

Draft program
13:30 **Welcome and introduction**
13:45 **Cutting edge research and promising applications**

Using big data in the field of legal services - the case of bengo4.com

> Ritsu Ishihashi, CTO, bengo4.com

Use of big data in the context of IoT

> Jun Nakamura, Professor, Shibaura Institute of Technology

A multidisciplinary perspective of big data in management research

> Tristan Chong, Deputy Director, Research Institute of Big Data Analytics,
> Xi'an Jiaotong Liverpool University

Stance of Japanese government for big data

> METI (TBD)

Moderator: Ulrike Schaede, Director, Japan Forum for Innovation and Technology at UC San Diego

15:15 **Trade and aggregation - emerging market infrastructures**

Aggregation of big data at Rakuten (tentative)

> Takuya Kitagawa, Chief Data Officer and Executive Officer, Rakuten

Trading one's own data - the case of EverySense

> Hiroshi Mano, CEO, EverySense Inc

Policies for the promotion of the "Information Bank"

> Kohei Yoshida, Director, National Strategy Office of ICT, Cabinet Secretariat, Japan

How to secure big data for deep learning

> Arisa Ema, Ass. Professor, University of Tokyo

Moderator: Franz Waldenberger, Director, German Institute for Japanese Studies, Tokyo

16:45 **Coffee break**
17:00 **Policy issues – ownership, access and competition**

Big data regulation - the German approach

> Embassy of the federal republic of Germany in Japan (TBD)

Development of institutions for big data from various perspective

> Noriyuki Yanagawa, Professor, University of Tokyo

Big data and competition

> Hideki Utsunomiya, Attorney at Law at Mori, Hamada and Matsumoto

Big data issues in the financial industry

> Mikari Kashima, Division Chief, Financial Infrastructure Division at the Bank of Japan

Moderator: Dietmar Harhoff, Director, Max-Planck Institute for Innovation and Competition, Munich

18:30 **Concluding remarks**
18:40 **Reception**
20:00 **End**