

# RUB JAPAN SCIENCE DAYS 2018

SOCIETY 5.0 - CHANCES AND RISKS OF DIGITAL TRANSFORMATION AND THE RESPONSIBILITY OF UNIVERSITIES

5-7 JULY 2018

## RUB JAPAN SCIENCE DAYS 2018 – WITHIN THE FRAME OF RUB INTERNATIONAL SCIENCE DAYS

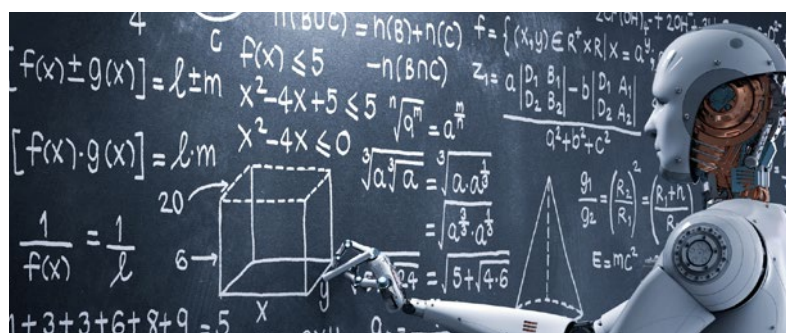
The RUB Japan Science Days 2018, within the frame of the RUB International Science Days, represent the start of a recurring format that the Ruhr-University Bochum created as a new platform for dialogue with its partner universities throughout the world. The goal is the sustained expansion of the cooperation in teaching, research and transfer as well as in the field of university internationalisation in strategic focus regions with renowned universities at the level of rectors and presidents,

international/global engagement offices and further university institutions dealing with issues related to transfer and social responsibility. The RUB International Science Days are each devoted to a guiding topic of high societal relevance that offers multidisciplinary and transdisciplinary approaches to research, teaching and transfer, and documents the willingness of RUB and its partner universities to assume social responsibility.

### „SOCIETY 5.0 – CHANCES AND RISKS OF DIGITAL TRANSFORMATION AND THE RESPONSIBILITY OF UNIVERSITIES“

The digital transformation, happening in all aspects of human life, as well as innovation, driven by enabling technologies such as robotics, artificial intelligence and many more, represent significant change – from a technological but also societal perspective. In anticipation of the continued progress, this will provide our societies with tremendous opportunities (smart cities, smart homes, smart care etc.). At the same time, unprecedented safety, legal, privacy and ethical issues, among others, need to be tackled. Not only is the digital transformation at the top of the (scientific) political agenda in both, our partner country of Japan, as well as in Germany, but it is also among the central interdisciplinary and transdisciplinary networking fields of the Ruhr-University Bochum in research, teaching as well as transfer. A comparison of the strategies and concepts in dealing with the challenges of digitalisation in the economic sector and society between Germany and Japan and, in particular, the role and responsibility of universities that are attributed to them in the process of the digital transformation, promises to provide valuable insight, especially through an inter-, transdisciplinary and international dialogue.

Thus, the focus of the first RUB International Science Days 2018 is on the guiding topic of “Society 5.0 – Chances and Risks of Digital Transformation and the Responsibility of Universities” in exchange with renowned universities in Japan, like the University of Tokyo, Kyoto University, Osaka University, the University of Tsukuba, and Kwansai Gakuin University.



### RUB AND DIGITAL TRANSFORMATION

For RUB, the topic of “Digital Transformation in Economics and Society” is among the central interdisciplinary and transdisciplinary networking fields in research, teaching and transfer. Competencies are combined and networked, in particular in the areas of IT security and privacy, Industry 4.0, Work 4.0 as well as cognitive computer science. The Center for Advanced Internet Studies (CAIS), which has been located in Bochum since 2017, works in close cooperation with researchers at RUB and is dedicated to the political, social and economic implications of digitalisation. The interdisciplinary Horst Görtz Institute for IT Security (HGI) was founded at RUB in 2003 and covers nearly all aspects of IT security, from basic research in cryptography to internet security, security for the Internet of Things, usability and data protection. It is the largest of its kind in Europe. Likewise, numerous young companies in the area of IT security and Industry 4.0 are located in Bochum. In addition to the research building for Smart Product Service Systems (ZESS), which is part of RUB’s currently planned new research quarter, more research clusters will be created around the topics of IT security and privacy as well as neuroscience and cognition science.

### PROGRAMME OF THE RUB JAPAN SCIENCE DAYS 2018

#### THURSDAY, 5 JULY 2018

12:30-14:00 REGISTRATION

14:00-15:00 ADDRESS OF WELCOME

15:00-16:00 KEYNOTE LECTURES I & II

Creating the Future - Japan's „Society 5.0“  
Strategy and Germany's New Hightech Strategy

16:00-16:30 TEA/COFFEE BREAK

16:30-17:30 KEYNOTE LECTURES III & IV

Chances and Risks of Digital Transformation

17:30-18:00 TEA/COFFEE BREAK

18:00-19:30 PANEL DISCUSSION

Chances and Risks of Digital Transformation  
and the Responsibility of Universities

19:30-21:00 RECEPTION

#### FRIDAY, 6 JULY 2018

09:00 – 15:00 PRESIDENTS' MEETING

09:00 – 15:00

PARALLEL GROUP SESSIONS

- Shaping the Law for a Society 5.0
- Cryptography: A Necessity for the Society 5.0
- Globalisation & Digitalisation - New Challenges for Research and Teaching at Economics and Management Faculties
- Metropolitan Research
- Plant Bioenergetics, Biotechnology & Molecular Biology
- Plasma and Atomic Physics
- Digital Humanities and Historical Research on East Asia
- Societal Change
- Digitalisation of Foreign Language Education
- Graduate Education/Researcher Development 5.0

15:00-16:30

GERMAN AND JAPANESE  
FUNDING OPPORTUNITIES

17:00-18:30 PANEL DISCUSSION

Strategic Internationalisation of Universities -  
Exchange of Best Practice Examples and Discussion  
of Success Factors.

18:30 CLOSING REMARKS

19:00-22:00 DINNER

#### SATURDAY, 7 JULY 2017

9:00-16:00 CULTURAL EXCURSION  
RUB, Bochum, Ruhr Region (including lunch)

### CONFERENCE PARTICIPATION TARGET GROUPS

Please kindly note that **participation is by personal invitation only**.

For **further information or questions regarding registration**, please contact:

Ms Kristin Vosbeck

RUHR-UNIVERSITÄT BOCHUM  
International Office  
Universitätsstraße 150  
D-44801 Bochum, Germany

phone: +49 (0) 234 32-28824  
kristin.vosbeck@uv.rub.de

The RUB Japan Science Days 2018 are particularly aimed at experts and representatives from RUB and its renowned cooperation partners in Japan: members of the university management board, scientists, staff from the International and Global Engagement Offices, as well as members from further institutions related to internationalisation and digitalisation of science and knowledge transfer.

#### VENUE

Zentrum für IT Sicherheit (ZITS)  
Lise-Meitner-Allee 4  
44799 Bochum  
Germany

#### CONFERENCE LANGUAGE

English