PROGRAMME

International Symposium on Data Science (DSWS-2023)

- Building an Open Data Collaborative Network in the Asia-Oceania Area

15 December 2023

Science Council of Japan, Tokyo (hybrid type conference)

(Blue Colour; Online Presentations)

(Time; JST = UTC+9h)

Friday 15 December 2023
Session 6: Asia-Oceania data forum (10:00-12:00 JST)
Conveners: *Yasuhiro Murayama, Toshihiko Iyemori, Toshihiro Ashino, Takashi Watanabe, David Castle, Juanle Wang

10:00–12:00 (Chairs: Yasuhiro Murayama, Juanle Wang, Tyng-Ruey Chuang, Toshihiro Ashino)

- *International Policy and Practices of Open Science-based Data Sharing*
  Yasuhiro Murayama (National Institute of Information and Communications Technology)
  (5'; S6.1)

- *A Survey of current Status of Open Science oriented Activities in the Asia-Oceania Area*
  Takashi Watanabe (National Institute of Information and Communications Technology)
  (10'; S6.2)

- *The Action Plan and Priorities of the World Data System*
  David Castle (Chair of Scientific Committee of World Data System; University of Victoria)
  (15'; S6.3)

- *Toward a Reproducible Research Data Repository*
  Cheng-Jen Lee & Tyng-Ruey Chuang (Institute of Information Science,
  Academia Sinica, Taiwan) (15'; S6.4)

- *Overview of Research Activities at Indian Institute of Geomagnetism*
  A. P. Dimri (Indian Institute of Geomagnetism) (10'; S6.5)

- *The role of data publishing activities at universities and research institutes on Asia and Oceania*
  Shaliza Ibrahim (University of Malaya) (10'; S6.6)

- *National Scientific Repository (RIN)*
  Sjaeful Afandi (National Research and Innovation Agency (BRIN of Indonesia)) (10'; S6.7)

- *Towards Open Science: Chinese National Spatial Science Data Centre Activities*
  Xu Qi (National Space Science Center, Chinese Academy of Sciences) (10'; S6.8)

- *Open Government Data (OGD) in Bangladesh NSO*
  Chandra Shekhar Roy (Bangladesh Bureau of Statistics) (10'; S6.9)

- *The Global Microbiology Open Science Data Cooperation*
    Juncai Ma (Institute of Microbiology, Chinese Academy of Sciences) (10'; S6.10)

    Discussion (15')

12:00–12:15 **Lightning Talks 3 (Poster Sessions)**

12:15–14:00 **Lunch Time**

13:00–14:00 **Core Time 3 (Poster Sessions)**

Poster Sessions
Abstracts will be included in the conference "Programme and Abstracts" online booklet.

Friday 15 December 2023
Lightning Talks 3; 12:00-12:15 JST (@Zoom)
Core time 3; 13:00-14:00 JST (@Spatial Chat)
(Chairs: Akira Kadokura, Masahito Nose)

- *Analysis on characteristics of surface-observed and model-based cloud cover for historical weather reconstruction using data assimilation*
    Xiaoxing Wang (Center for Open Data in the Humanities,
          Joint Support-Center for Data Science Research (DS), ROIS) (S4-P.1)
- *Explainable AI Framework for Interpreting the Electrochemical Oxygen Evolution Activity of (Ni-Fe-Co-Ce)Ox Catalysts*
    Paul Rossener Regonia (University of the Philippines Diliman) (S4-P.2)
- *Predictive Modelling of Under-Five Mortality Determinants Using Machine Learning Techniques*
    Rakesh Kumar Saroj (Jawaharlal Nehru University, India) (S4-P.3)
- *How Can Digital Innovation Transform People's Behaviour in Response to the COVID-19 Restrictions in Indonesia*
    Kiki Adhinugraha (La Trobe University, Australia) (S4-P.4)
- *Hyper basic oxygen*
    Norihan Abdelaziz Elgazzar (Tanta University, Egypt) (S4-P.5)
- *Data publication and collaborative research infrastructure of the Antarctic Syowa MST/IS (PANSY) radar*
    Taishi Hashimoto (National Institute of Polar Research) (S4-P.6)
- *An overview of metadata in Research Data Clouds towards Global Open Research Commons*
    Mikiko Tanifuji (National Institute of Informatics) (S4-P.7)
- *Progress of the AMIDER project*
    Masayoshi Kozai (Polar Environment Data Science Center,
          Joint Support-Center for Data Science Research (DS), ROIS) (S5-P.2)
- *Conducting a Lesson on Earth's Global Sea Ice Distribution Using a Handmade Globe*
    Takeshi Sugimura (National Institute of Polar Research) (S5-P.3)
- *Educational practices using polar sea ice data for high school science and mathematics classes*
    Yoshihiro Niwa (National Institute of Polar Research) (S5-P.4)
- *Application of Independent Component Analysis to Satellite Gravity Data for Antarctic Research*
    Tianyan Shi (Institute for Geothermal Sciences, Kyoto University) (S7-P.1)

Friday 15 December 2023
Session 7: GEO variables and data mapping for Cold Regions (14:00-15:30 JST)
Conveners: *Yubao Qiu, Hiroyuki Enomoto, Masaki Kanao, Lanhai Li

14:00– 15:30 (Chairs: Yubao Qiu, Hiroyuki Enomoto)

- *Snow Properties Survey and Snow Avalanche Hazards in Tianshan Mountains*
  - **Lanhai Li** (Xinjiang Institute of Ecology and Geography, Chinese Academy of Sciences)
    (15'; S7.1)
- *Long term records of glacier evolution and associated proglacial lakes on the Tibetan Plateau 1976 - 2020*
  - **Lhakpa Dolma** (Tibet Institute of Plateau Atmosphere and Environmental Sciences)
  - **Yubao Qiu** (Aerospace Information Research Institute, Chinese Academy of sciences)
    (15'; S7.2)
- *Data Management of the Arctic and Antarctic Region*
  - **Hironori Yabuki** (National Institute of Polar Research) (15'; S7.3)
- *Utilization of Snow and Ice Disaster Prevention Information created by National Research Institute for Earth Science and Disaster Resilience (NIED), Japan*
  - **Satoru Yamaguchi** (National Research Institute for Earth Science and Disaster Resilience) (15'; S7.4)
- *Digital Arctic Environment Information Service*
  - **Yubao Qiu** (Aerospace Information Research Institute, Chinese Academy of sciences)
    (15'; S7.5)

  Discussion (15')

15:30–16:00 **Break**

Friday 15 December 2023
Strategic discussion, Closing remark (16:00-17:30 JST)
Conveners: *Takashi Watanabe, Juanle Wang, David Castle, Johnathan Kool, Noorsaadah Abd Rahman, A. P. Dimri

16:00–17:30

(Chairs: Takashi Watanabe, Juanle Wang)

1. *Background and Scope of the Strategic discussion*
   - **Takashi Watanabe** (National Institute of Information and Communications Technology) (5')

2. *Summary of the DSWS-2023 individual sessions*
   - **Lead-conveners of all sessions** (35')
   - *Session 1: Challenges of data systems and networks* (5')
   - *Session 2: Open Science and the FAIR Principles: Why, what, and how* (5')
   - *Session 3: Lessons learned from COVID-19 data* (5')
   - *Session 4: Recent developments in data science* (5')

- *Session 5: Involvement of early career researchers and scientists* (5')
- *Session 6: Asia-Oceania data forum* (5')
- *Session 7: GEO variables and data mapping for Cold Regions* (5')

3. *Supplementary comments and discussions* (20')

4. *Action plan* (10')

5. *Summary* (5')

(Chair: Masaki Kanao)

Closing remark (15')
Johnathan Kool (Chair of International Advisory Committee; Australian Antarctic Division) (5')
Noorsaadah Abd Rahman (Malaysian Open Science Alliance) (5')
Masaki Kanao (Chair of Local Organizing Committee) (5')