

TRAVEL REPORT FORM

출장보고서

결 재	선임연구 원	팀장	부서장	원장
	03/06	03/06	03/06	03/06
협 조	한정민	이현록	유진호	정홍상

I. Travel Overview 출장개요

1. Traveler(s) 출장자

Department 소속	Position 직위(직급)	Name 성명	Note 비고
기후예측본부	선임연구원	한정민	

2. Travel Period 출장기간

- 2018년 2월 18일 ~ 24일

3. Occasion and destination 행사 및 출장지

- 행사명: 13th International Digital Curation Conference
- 출장지: NH Collection Barcelona Tower, Barcelona, Spain

II. Major Activities 주요업무 수행내용

1. Main Contents and Activities 주요내용 및 활동

- 13th International Digital Curation Conference 참석하였음.
- “Development of climate information processing system for ease of climate data” 논문 발표 및 토의하였음.
- 데이터 처리 관련 최신 동향 파악 및 기술 적용 사례 수집하였음.

2. Relevance to APEC Climate Center’s Activities 결론 및 소감

- IDCC18은 기후데이터를 포함한 연구데이터, 과학데이터의 데이터 공유를 위한 자료처리 방법, 자료 공유방법에 대해 자료처리 기술 및 서비스를 위해 메타정보 생산, 접근, 통합 등, 자료처리 기술에 대해 연구하고 공유하는 컨퍼런스임.
- 기안자는 컨퍼런스에서 데이터를 처리하고 공유하는 기술을 포함하여 다양분에서의 활용과 데이터 교류정책에 대해 논의하고 토론 하였으며 APCC에서 개발한 CLIPs의 다양한 분야에 대한 서비스 확대와 사용자 확대를 위한 방법에 대해 고민할 수 있는 자리였음.
- 기후자료에 대한 사용자 평가를 통해 상품성 강화에 초점을 맞춘 데이터 기반 기후정보 서비스를 구축하고 개선하고자 함.
- IDCC에서 운영하는 데이터 커뮤니티 참여를 희망하였고 컨퍼런스에서 얻은 참여자들과의 지

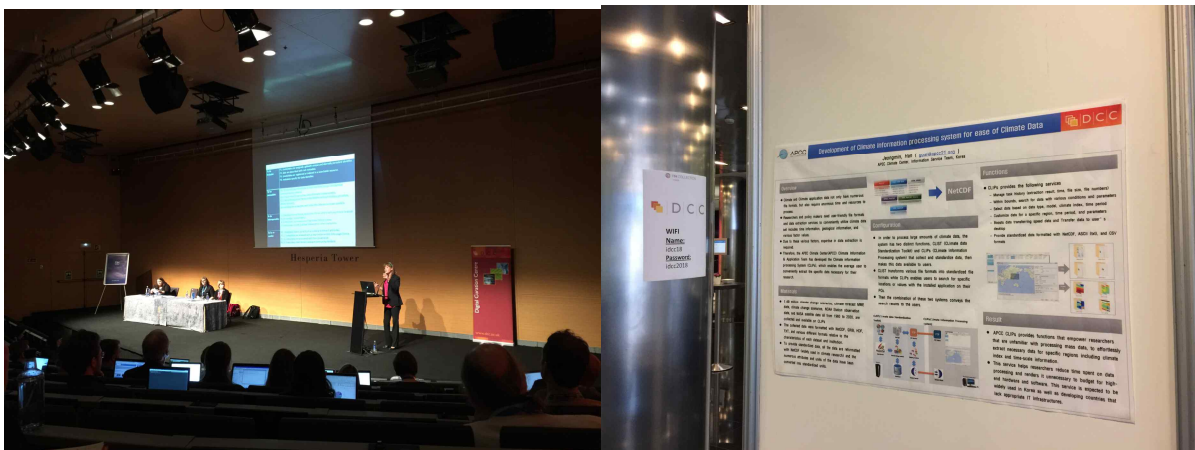
속적인 교류를 통해 데이터 서비스 변화를 파악하고 흐름에 맞는 서비스 개선을 위해 노력하고자 함.

3. Suggestions and Remarks 건의사항

III. References (Presented and Collected Materials) 주요 수집자료

(with attachment of any information or report in case of attendance of conferences, workshops and meetings) 학술대회, 워크숍, 회의 등 참석 시 관련 정보 및 문서 첨부

- 주요 수집자료: IDCC 참석자 연락처 및 관련 연구 자료 수집
- 발표회장 사진



<컨퍼런스 발표회장(좌), 포스터 발표(우)>

Jeongmin, Han (goal@apcc21.org)
APEC Climate Center, Information Service Team, Korea

Overview

- Climate and Climate application data not only have numerous file formats, but also require enormous time and resources to process.
- Researchers and policy makers need user-friendly file formats and data extraction services to conveniently utilize climate data set includes time information, geological information, and various factor values.
- Due to these various factors, expertise in data extraction is required.
- Therefore, the APEC Climate Center(APCC) Climate Information & Application Team has developed the Climate information processing System (CLIPs), which enables the average user to conveniently extract the specific data necessary for their research.

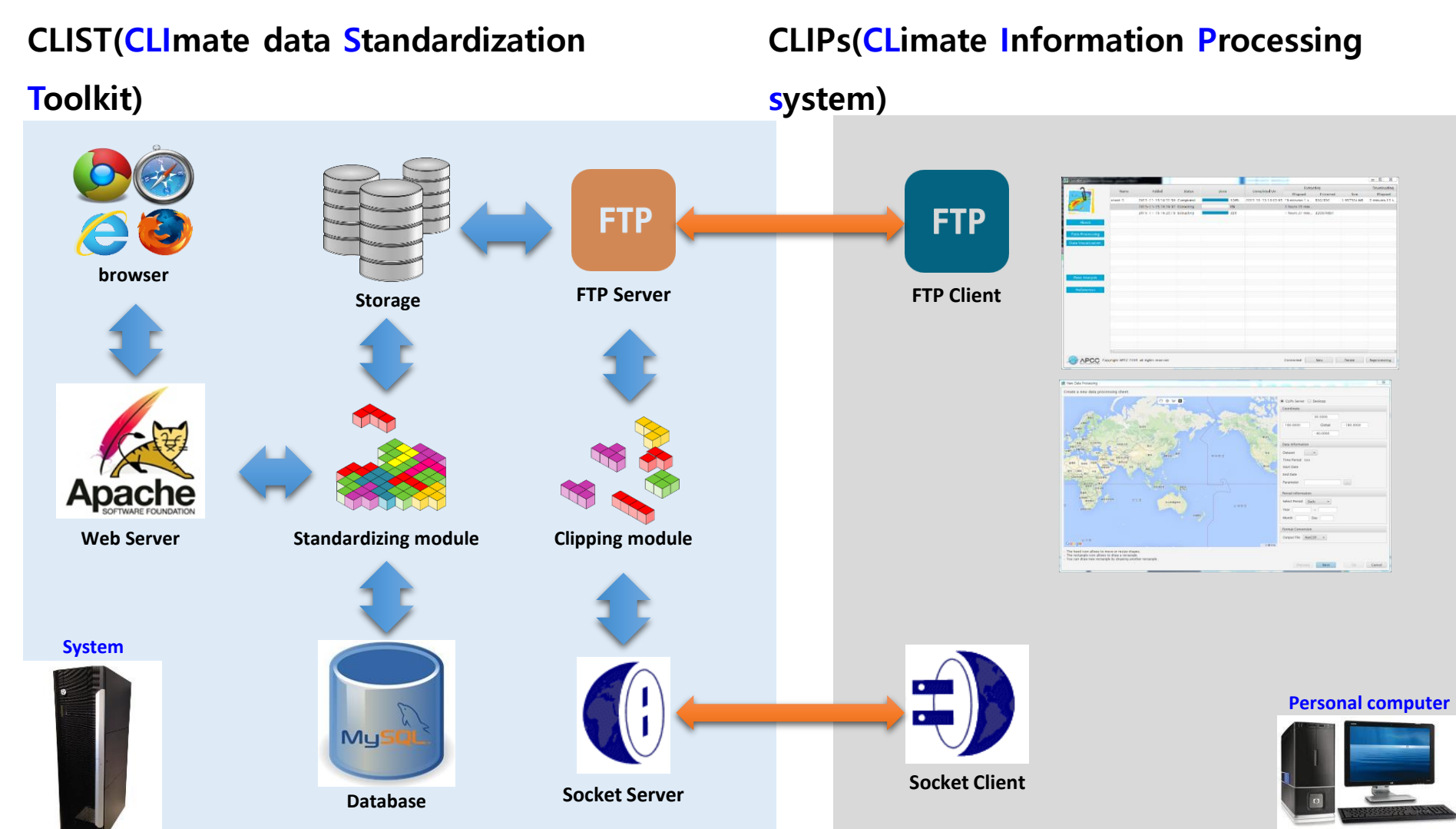
Materials

- 1.49 million climate change scenarios, climate forecast MME data, climate change scenarios, NOAA Station observation data, and NASA satellite data all from 1960 to 2020, are collected and available on CLIPs
- The collected data were formatted with NetCDF, GRIB, HDF, TXT, and various different formats relative to the characteristics of each dataset and institution.
- To provide standardized data, all the data are reformatted with NetCDF (widely used in climate research) and the numerous attributes and units of the data have been converted into standardized units.



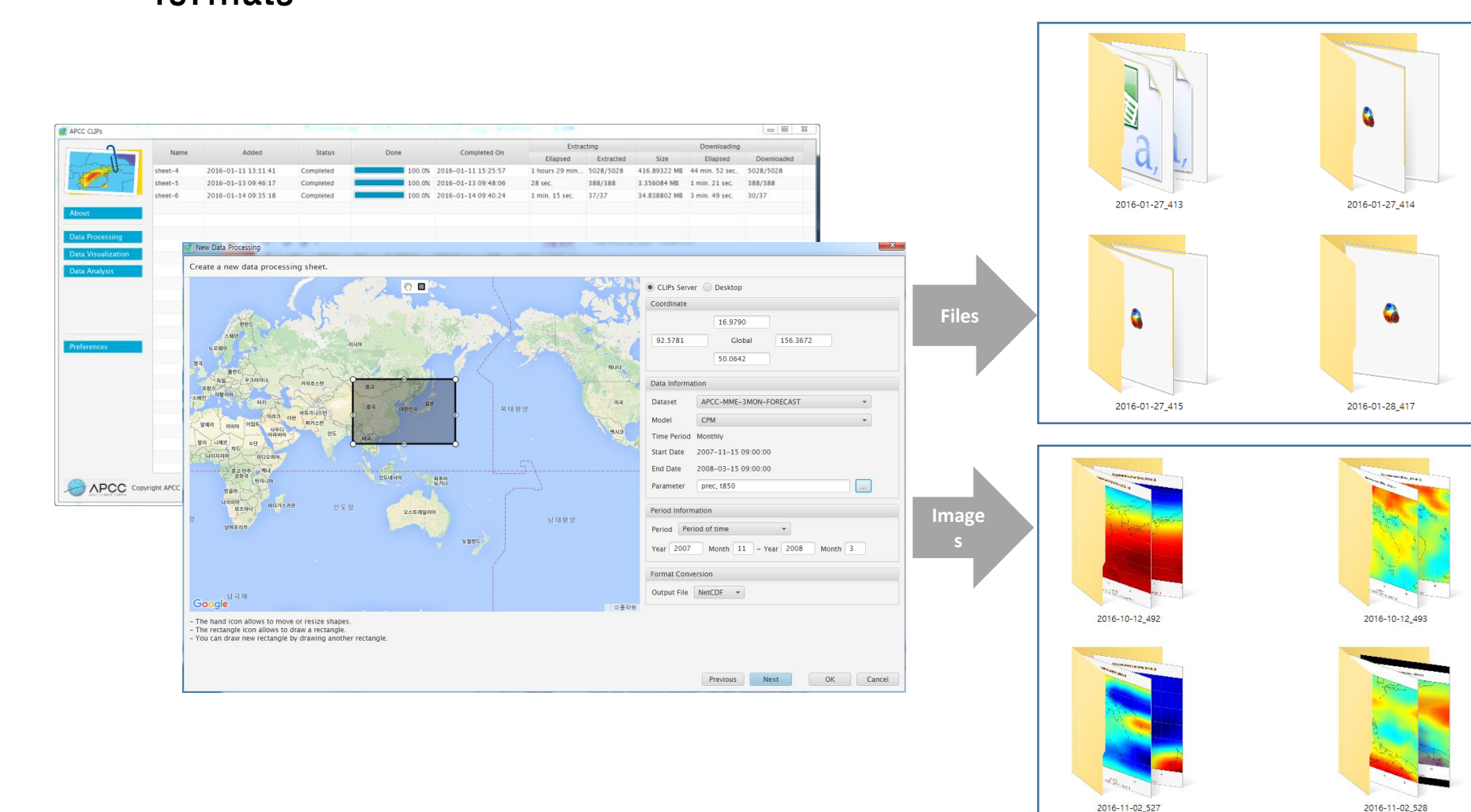
Configuration

- In order to process large amounts of climate data, the system has two distinct functions, CLIST (CLimate data Standardization Toolkit) and CLIPs (CLimate Information Processing system) that collect and standardize data, then makes this data available to users.
- CLIST transforms various file formats into standardized file formats while CLIPs enables users to search for specific locations or values with the installed application on their PCs.
- Then the combination of these two systems conveys the search results to the users.



Functions

- CLIPs provides the following services
 - Manage task history (extraction result, time, file size, file numbers)
 - Within bounds, search for data with various conditions and parameters
 - Select data based on data type, model, climate index, time period
 - Customize data for a specific region, time period, and parameters
 - Boosts data transferring speed data and Transfer data to user's desktop
 - Provide standardized data formatted with NetCDF, ASCII (txt), and CSV formats



Result

- APCC CLIPs provides functions that empower researchers that are unfamiliar with processing mass data, to effortlessly extract necessary data for specific regions including climate index and time-scale information.
- This service helps researchers reduce time spent on data processing and renders it unnecessary to budget for high-end hardware and software. This service is expected to be widely used in Korea as well as developing countries that lack appropriate IT infrastructures.



Programme

Please note some timings may change.

Monday, 19 February 2018		
08:15 – 09:00	Workshop Registration	
09:00 – 16:30	Workshops (http://www.dcc.ac.uk/events/idcc18/workshops)	
19:00 – 20:30	Pre-Conference Drinks Reception and Welcome Address	
Tuesday, 20 February 2018		
08:00 – 09:00	Registration Coffee/Tea	
09:00 – 09:15	Welcome Kevin Ashley, Director of the Digital Curation Centre	
09:15 – 10:00	Keynote, talk title TBC Sabina Leonelli (http://www.dcc.ac.uk/events/idcc18/speakers#Sabina) , Professor in Philosophy and History of Science at the University of Exeter, UK	
10:00 – 10:30	Coffee/Tea	
10:30 – 11:45	Research Papers Measuring FAIR Principles to Inform Fitness for Use Prof Carolyn Hank, Prof Bradley Wade Bishop, University of Tennessee, USA Giving datasets context: a comparison study of institutional repositories that apply varying degrees of curation Amy Koshoffer (University of Cincinnati), Amy Neeser (University of California Berkeley), Linda Newman (University of Cincinnati), Lisa Johnston (University of Minnesota), USA Complexities of Digital Preservation in a Virtual Reality Environment, the Case of Virtual Bethel Angela Murillo, University of Indiana-Purdue University Indianapolis, USA	
11:50 – 12:50	Enabling and measuring FAIR data	Cross-institutional and national data services
11:50 – 12:10	Are research data sets FAIR in the long run? Dennis Wehrle and Klaus Rechert, University of Freiburg, Germany	Data Curation Network: A Cross-Institutional Staffing Model for Curating Research Data Lisa R Johnston, Jake Carlson, Cynthia Hudson-Vitale, Heidi Imker, Wendy Kozlowski, Robert Olendorf, Claire Stewart, Mara Blake, Joel Herndon, Timothy McGeary, from 8 universities across USA
12:10 – 12:30	Enabling FAIR Data in the Earth and Space Sciences Shelley Stall (American Geophysical Union), Kerstin Lehnert, Erin Robinson, Lynn Yarmey, Mark Parsons, Brian Nosek, Joel Cutcher-Gershenfeld, Brooks Hanson, USA	Making Everything Available. British Library Research Services and Research Data Strategy Rachael Kotarski, Torsten Reimer, British Library, UK
12:30 – 12:50		National Research Infrastructure - Funder or Partner? Angeletta Miranda Leggio, Australian National Data Service (ANDS), Australia
12:50 – 13:50	Lunch & poster exhibition	
13:50 – 14:30	Minute madness (rapid-fire poster presentations)	
14:30 – 15:30	Poster session & Demonstrations	
15:30 – 16:00	Coffee/Tea	

16:00 – 17:20	More than data	Repository Services
16:00 – 16:20	Incorporating Software Curation into Research Data Management Services: Lessons Learned Fernando Rios, University of Arizona, USA	Two libraries using one Texas Data Repository Anna J Dabrowski from Texas A&M University, Jessica Trelogan from University of Texas at Austin, USA
16:20-16:40	Curating Scientific Workflows for Biomolecular Nuclear Magnetic Resonance Spectroscopy Douglas Heintz, University of Illinois, Urbana-Campaign Michael Gryk, University of Illinois & UCONN Health, USA	From passive to active, from generic to focussed: how can an institutional data archive remain relevant in a rapidly evolving landscape? Maria J. Cruz, Jasmin Böhmer, Egbert Gramsbergen, Marta Teperek, Alastair Dunning from Delft University of Technology, The Netherlands
16:40-17:00	Technical Metadata Patterns Across Web Sharing Environments Santi Thompson from University of Houston and Michelle Reilly from University of Arkansas, USA	Building Open-Source Digital Curation Services and Repositories at Scale Richard Marciano, Gregory Jansen, Will Thomas, Michael Kurtz from University of Maryland, USA
17:00-17:20	Designing and Building Interactive Curation Pipelines for Natural Hazards Engineering Data Maria Esteva, Craig Jansen, Josue Balandrano Coronel, from Texas Advanced Computing Center, USA	Documenting Race, Class, War, and Much More: Digital Curation of Historically Significant Alabama Newspapers Lorraine Madway, University of Alabama Libraries, USA
Free time		
19:30 – 22:00	Conference Dinner	
Wednesday, 21 February 2018		
08:30 – 09:00	Coffee/Tea	
09:00 – 09:45	Keynote Blending analytics and curation: data explorations from a library in a cultural organization , by Luis Martínez-Urbe (http://www.dcc.ac.uk/events/idcc18/speakers#Luis), Data Scientist at the Fundación Juan March Abstract: Digital curation activities ensure that data is looked after from the moment of creation and throughout its lifecycle with the aim of adding value to it and ensuring permanent access. One way to augment curation is using analytics as these two worlds blend well at many levels. For instance, data can be curated using supervised learning to categorize it, or with clustering methods that support the process of entity disambiguation, or using off-the-shelf AI for automatic transcription of audio, sentiment analysis or keyword extraction from text. In addition to curating data using analytics, once data is well curated, a wide range of analytical methods can provide insights into the way in which our organizations work and eventually those insights can be used to guide strategy. This talk will discuss the previous views illustrating them with activities from the DataLab at the Library of Fundación Juan March, a section dedicated to curation and analytics in a cultural organization devoted to the promotion of humanistic and scientific culture.	
	Parallel Session 3 – practice papers	
09:50 – 11:10	Ethics and legal	Data Management Planning
09:50 – 10:10	The administrative load of sharing sensitive data - challenges and solutions? Kirsty Merrett, Zosia Beckles, Stephen Gray, Debra Hiom, Kellie Snow, Damian Steer from University of Bristol, UK	Keep calm and fill in your DMP: Lessons Learnt from a Swiss DMP-template initiative Nathalie Lambeng, Lorenza Salvatori, Karine Delvert, Aude Dieudé, Jan Krause, Raphaël Rey, Mathilde Panes, Eliane Blumer, Ana Sesartic, Matthias Töwe, from EPFL and ETH Zurich, Switzerland
10:10 - 10:30	Tagging Privacy-Sensitive Data According to the New European Privacy Legislation: GDPR DataTags - a Prototype Peter Doorn, DANS, The Netherlands	Remediation Data Management Plans: a tool for recovering research data from messy, messy projects Clara Llebot Lorente, OSU Libraries and Press, Oregon State University, USA
10:30 – 10:50	Data Mining Research Using In-copyright and Limited-access Text Datasets: Preliminary Findings from a Systematic Literature Review and Stakeholder Interviews Megan Senseney, Eleanor Dickson, Bertram Ludäscher from University of Illinois, USA and Beth Namachchivaya from University of Waterloo, Canada	A Landscape Survey of #ActiveDMPs Stephanie Simms from California Digital Library (USA), Sarah Jones from DCC (UK), Tomasz Miksa from University of Vienna (Austria), Daniel Mietchen from University of Virginia (USA), Natasha Simmons from Australian National Data Service (Australia)
10:50 - 11:10	Secure Data For The Future - A Risk Assesment Bendik Bryde mailto, Roberto Gonzalez Siguero, from PqiI.com, international organisation	
11:10 – 11:30	Coffee/Tea	
11:30 – 12:50	Data creation and re-use studies	Data policy and guidance

11:30 – 11:50	Finding, accessing, reusing: art making, digital curation and real-world value Laura Molloy, University of Oxford, UK	Advancing Policy and Changes for Graduate Data Management Zhiwu Xie, Jonathan Petters, Gail McMillan, Andrea Ogier, Tyler Walters, Virginia Tech, USA
11:50 – 12:10	Experimenting with Citizen Scholarship: ‘Our Theatre Royal Nottingham: its stories, people and heritage’ Laura Carletti, Jo Robinson, University of Nottingham, UK	The impact on authors and editors of introducing Data Availability Statements at Nature journals Rebecca Grant, Iain Hrynaskiewicz, Springer Nature, UK
12:10 – 12:30	Emerging Roles for Optimising Re-Use of Open Government Data Fanghui Xiao, Liz Lyon, Ning Zou from University of Pittsburgh and Robert M Gradeck from University of Pittsburgh Center for Social and Urban Research, USA	Disciplinary data publication guides Zosia Beckles, Stephen Gray, Debra Hiom, Kirsty Merrett, Kellie Snow, Damian Steer from University of Bristol, UK
12:30 – 12:50	Tiny Data: Building a Community of Practice around Humanities Datasets Veronica-Gaia Ikeshoji-Orlati, Mary Anne Caton, Suellen Stringer-Hye, Vanderbilt University, USA	Data Stewardship - addressing disciplinary data management needs Marta Teperek, Maria J. Cruz, Ellen Verbakel, Alastair Dunning, from TU Delft and 4TU.Centre for Research Data, The Netherlands
12:50 – 14:00	Lunch and poster exhibition	
14:00 – 15:30	Birds of a Feather	
15:30 – 16:00	Coffee/tea	
16:00 – 16:45	Keynote, talk title TBC Nancy McGovern (http://www.dcc.ac.uk/events/idcc18/speakers#Nancy), Director of Digital Preservation at MIT Libraries	
16:45 – 16:55	Award for best paper and best poster	
16:55 – 17:20	Wrap up by Cliff Lynch (http://www.dcc.ac.uk/events/idcc18/speakers#Cliff)	
17:20 – 17:30	Closing remarks by Kevin Ashley	
Thursday, 22 February 2017		
08:15 – 09:00	Workshop Registration	
09:00 – 16:00	Workshops (http://www.dcc.ac.uk/events/idcc18/workshops)	

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Posters

- **The Metro Map Method: A General Procedure for the Creation of Training Curricula in Research Data Management** Schneider, René; Organisation: Geneva School of Business Administration, Switzerland
- **FDmentor – Solutions and Guidelines for Universities** Biernacka, Katarzyna; Helbig, Kerstin; Cortez, Katrin; Organisation: Humboldt-Universität zu Berlin, Germany
- **Developing Data Management Workshops for Researchers** Smith, Plato; Organisation: University of Florida, United States of America
- **Mapping Data Environments for Intelligent Infrastructure Research and Development** Shen, Yi; Organisation: Virginia Polytechnic Institute and State University, United States of America
- **Maredata, the Spanish thematic network about open research data (2015-2018). Objectives and metrics** Peset, Fernanda¹; Abadal Ernest²; Melero Remedios⁴; López-Borrull, Alex³; Organisations: 1: Universitat Politècnica de València, Spain; 2: Universitat de Barcelona; 3: Universitat Oberta de Catalunya; 4: IATA-CSIC
- **HODS/rd, a research data harvester based on repositories and journals** Albiñana-Bertomeu, Ricardo²; García Gómez, Consol⁴; González, Luis-Millán³; Peset, Fernanda¹; Organisations: 1: Universitat Politècnica de València, Spain; 2: Universitat Oberta de Catalunya, Spain; 3: Universitat de València, Spain; 4: Universitat Politècnica de Catalunya, Spain
- **Data Sharing Workflow for Large Datasets (>1TB) with Globus** Borda, Susan; Organisation: University of Michigan, United States of America
- **Development of Climate Information Processing system for ease of Climate Data** Han, Jeongmin; Organisations: APEC Climate Center, Korea, Republic of (South Korea)
- **PAS Data Processing Pipeline: Submission Information Package Creator for the Finnish Digital Preservation Service** Kostinen, Valtteri; Alaterä, Tuomas J.; Organisation: Finnish Social Science Data Archive, Finland
- **Living a holistic RDM-Service - A field report from Leibniz Universität Hannover, Germany** Meyer, Anneke¹; Soßna, Volker¹; Neumann, Janna²; Kaps, Reiko¹; Organisations: 1: Leibniz Universität Hannover, Germany; 2: Leibniz Information Centre for Science and Technology University Library, Germany

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