

Asia-Pacific Digital Library Conference ICADL 2015 and Affiliated Workshops

Seoul Korea

Wednesday, December 9

NKOS Workshop (Widang Hall, Room 6th Floor)

See program on NKOS Workshop web site

Thursday, December 10

ICADL (New Millennium Hall)

08:00-09:00 **Pastries and Coffee**

09:00-09:20 **Opening (Auditorium)**

09:20-10:30 **Invited Speaker: Ross Wilkinson, Executive Director Australian National Data Service (Auditorium)**

The Value of a High Quality Data Digital Library

Australia invests \$AUD1-2B per annum in research data. Like most countries, it wants to get the best return possible on this data. Europe is spending E1.4B on their open data “pilot”. This means the data should be FAIR: findable, accessible, interoperable, and reusable. Part of this is that data should be routinely “published” and available in a “data repository”. But what does this mean? A digital library that enables use of data beyond its first use is key to exploiting a high quality data digital library – but how can we combine data gathered for one purpose, with other data, and publications to make new discoveries? Some of the challenges are very mundane, and very important, and others at the limits of statistical inference. This talk will explore what has been done to date, explore data “value”, and look to what is next.

10:35-11:50 **Papers #1 Processing for Digital Curation and Data Science (Auditorium)**

Chair: Jian Qin

- An Approach to Document Fingerprinting
Yunhyong Kim and Seamus Ross
- Formal Acknowledgement of Citizen Scientists’ Contributions via Dynamic Data Citations
Jane Hunter and Chih-Hsiang Hsu
- Comparing Network Structures of Different Versions of a Book: A Case Study of the Bible
Keeheon Lee

10:35-11:50 **Papers #2 Tweets and Texts** (Room 302)

Chair: Kulthida Tuamsuk

- User Motivations for Tweeting Research Articles: A Content Analysis Approach
Jin-Cheon Na
- More than Just Black and White: A Case for Grey Literature References in Scientific Paper Information Retrieval Systems
Aravind Sesagiri Raamkumar, Schubert Foo and Natalie Pang
- Identification of Tweets that Mention Books: An Experimental Comparison of Machine Learning Methods
Shuntaro Yada and Kyo Kageura

11:50-13:10 **Lunch** (Hangyeong Hall)

13:10-14:20 **Panel #1 Digital Humanities** (Auditorium)

Chair: Jane Hunter

- Digital Archives and Digital Methods: An Indonesian Case Study
Miguel Escobar Varela
- Digital Humanities Research for the Greater Mekong Subregion at KhonKaen University
Kulthida Tuamsuk
- Modeling Digital Literary Texts “Literally”
Wayne de Fremery
- Digital Humanities Research in Japan
Kiyonori Nagasaki

13:10-14:20 **Papers #3 Language Processing and Big Text Data** (Room 302)

Chair: Emi Ishita

- AfriWeb: A Web Search Engine for a Marginalized Language
Nkosana Malumba, Katlego Moukangwe and Hussein Suleman
- Experiments on Russian-English Identity Resolution
Zinaida Apanovich and Alexander Marchuk
- On-Demand Big Data Analysis in Digital Repositories: A Lightweight Approach Using Docker
Zhiwu Xie, Yinlin Chen, Tingting Jiang, Julie Speer, Tyler Walters, Pablo Tarazaga and Mary E.F. Kasarda (tentatively rescheduled for Session #6)

14:25-15:35 **Papers #4 Metadata and Discovery** (Auditorium)

Chair: Eun Gyoung Seo

- Semi-Automatic Metadata Generation Workflow for Developing Continuing Education Resource Repository
Jung-Ran Park and Andrew Brenza
- Enhancing Subject Metadata with Automated Weighting in the Medical Domain: A Comparison of Different Measures
Kun Lu, Jin Mao and Gang Li
- Data Transfer between Discovery Services and Library Catalogs: A Case Study at the University of the Fraser Valley
Hongfei Li and Diane Cruickshank

14:25-15:35 **Papers #5 Photos and Rumors – Social and Mobile** (Room 302)
Chair: Aek Achananuparp

- Investigating Image Processing Algorithms for Navigating Cultural Heritage Spaces using Mobile Devices
Ayodeji Olojede and Hussein Suleman
- Instagram this! Sharing Photos on Instagram
Chei Sian Lee, Nur Alifah Binte Ab Bakar, Raudhah Binti Muhammad Dahri and Sei-Ching Joanna Sin
- Analyzing Users' Trust Intention toward Online Health Rumors
Alton Chua and Snehasish Banerjee

15:35-15:50 **Break**

15:50-17:00 **Invited Speaker: Philip Schreur, Stanford University Library** (Auditorium)
BIBFRAME and the Future of Libraries

Until recently, libraries have isolated themselves from the semantic Web through their use of a unique communication format developed in the 1960s called MACHine-Readable Cataloging, or MARC. BIBFRAME, an RDF based schema developed by the Library of Congress, will finally allow them both to embed their data into the semantic web and to take advantage of the increasing stores of data there. The transition will not be an easy one, however, as the library ecosystem is completely dependent on the MARC formats for its structure. A project called Linked Data for Libraries, with financial support from the Mellon Foundation, is finally pushing libraries and their data into the semantic Web where an increasing number of their patrons search for their information needs.

17:15-18:30 **Reception and Posters (YERP Auditorium)**

- Mining Variations in Hangul Orthography
Ju Young An and Robert B Allen

- Development of the Imaginary Beings Knowledge Structure
Wirapong Chansanam and Kulthida Tuamsuk
- Semantic Knowledge Retrieval for Belief Culture
Wirapong Chansanam, Kulthida Tuamsuk, Kanyarat Kwiecien, Taneth Ruangrajitpakorn and Thepchai Supnithi
- Digital Reading Behavior of LIS Graduate Students: A Case Study at National Taiwan Normal University
Chia-Hsiang Chen and Hao-Ren Ke
- Performance of a Cloud-Based Digital Library
Yinlin Chen and Edward Fox
- Encompassing Retrieval of Academic Papers for User's Information Need
Kosuke Furusawa, Hongjun Fan, Yoichi Tomiura and Emi Ishita
- Ontology-Based Digital Humanities System for the Development of Librarianship in Taiwan
Hao-Ren Ke, Xing-Zhi Fu and Shun-Hong Xie
- Designing Interface for Elderly Adults: Accessing the Smartphone to the World
Ling-Ling Lai and Chia-Rou Lai
- Investigating the Use of YouTube as a Self-Directed Learning Platform
Chei Sian Lee, Hamzah Osop, Gani Kelni and Dion Hoe-Lian Goh.
- Recommender Knowledge-based System for the Researches on the Development of Northeastern Thailand
Jirapong Panawong and Kulthida Tuamsuk
- Schema.org for Wikipedia's Articles on Architecture
Jay Park
- Mining Latent Research Groups within Institutions Using an Author-Topic Model
Takeshi Shirai, Yoichi Tomiura, Shosaku Tanaka and Ryutaro Ono
- Evaluating Library Escape: A Prototype Information Literacy Game
Yan Ru Guo and Dion Hoe-Lian Goh
- E-Government in Kazakhstan as a Segment of a Semantic Digital Library
Gulmira S. Sultanbaeva, Nurgul P. Saparkhojayeva and Elmira S. Sultanbayeva
- Study of Color Universal Design in Digital Games
Kazuya Takemata, Tsubasa Takeda, Misa Tanaka and Akiyuki Minamide
- A Survey and a Comparative Study of Natural Disaster Taxonomies of Current Practice
Li Yang and Yejun Wu

- Staff Development of Academic Librarians to Improve Information Literacy Education in the Digital Age
Yukiko Watanabe and Kenshi Hyodo
- A Portal to Digital Libraries and Digital Archives in Hawaii
Andrew Wertheimer
- Extracting Structure from Scientific Abstracts
Paul Willot, Kazuhiro Hattori and Akiko Aizawa
- Linked Data for Professional Education (LD4PE) Project
Marcia Zeng, Sam Oh, Michael Crandall, Stuart Sutton and Thomas Baker

18:30-19:15 **Banquet (YERP Lower Lobby)**

19:15-20:30 **Performance (YERP Auditorium)**

Friday, December 11

ICADL (New Millennium Hall)

08:30-09:30 **Pastries and Coffee**

09:30-10:50 **Invited Speaker: Kaunsan Wang, Microsoft Research** (Auditorium)
From Digital Library to Digital Librarian: A Case Study of Microsoft Academic Services

Since its inception 25 years ago, the World Wide Web has emerged as the largest and fast growing digital library for our civilization. As envisioned in the seminal essay "As we may think" by V. Bush published 70 years ago, it has become commonplace that we retrieve articles from the Web with portable devices, write notes on the pages with a stylus, and store or share them with our fellow netizens with a few clicks. In the meantime, web search technologies have also evolved to the extent that unprecedented amount of documents have been indexed and ready for speedy retrieval. Despite the impressive efficiency and utility, however, the core technologies underlying the search engines have not ventured far from the keyword matching paradigm. The burden of coming up with the keywords that can lead to satisfactory search results still rests largely on the users. A nascent trend to further improve the user experience is to employ advanced natural language processing and dialog technologies so that the search engines can converse with the users to identify the needs and proactively suggest relevant materials or a proper course of actions. In this talk, I will describe the partnership between Microsoft Research and Bing on growing the search engine into an intelligent personal assistant. Although applicable to multiple application domains, I will focus on the area of scholarly communications where Microsoft is also actively sharing data and exploring collaboration opportunities to further advance the state-of-the-art.

10:50-12:00 **Papers #6 Applications of Text Processing** (Auditorium)
Chair: Kun Lu

- Evaluation of a General Purpose Sentiment Lexicon on a Product Review Corpus
Christopher S.G. Khoo, Sathik Basha Johnkhan and Jin-Cheon Na
- Exploring Context-Sensitive Query Reformulation in a Biomedical Digital Library
Hea-Jin Kim, Jung Sun Oh and Min Song
- Xamobile: Usability Evaluation of Text Input Methods on Mobile Devices for Historical African Languages (tentatively rescheduled for Session #3)
Sunkanmi Olaleye and Hussein Suleman

10:50-12:00 **Papers #7 Human Computation Games** (Room 302)

Chair: Jung-ran Park

- Aesthetic Experience and Acceptance of Human Computation Games
Xiaohui Wang, Dion Hoe-Lian Goh, Ee-Peng Lim and Adrian Vu
- Crowdsourcing a Text Corpus is not a Game
Sean Packham and Hussein Suleman
- The Effects of Collaboration and Competition on Players' Perceptions in Human Computation Games
Ei Pa Pa Pe-Than, Dion Hoe-Lian Goh and Chei Sian Lee

12:00-13:10 **Lunch** (Hangyeong Hall)

13:10-14:20 **Panel #2 eScience and Digital Humanities** (Auditorium)

Chair: Maja Zumer

- eScience and Living Analytics
Palakorn Achananuparp
- Sharing Scientific Literature, Ontologies, Databases and Annotations for Open Science
Jin-Dong Kim
- Exploring Smart Data Approaches to the History of Innovation and Invention at Liquid Crystal Institute at Kent State University
Marcia Zeng, Yin Zhang, Hongshan Li and Serhiy Polyakov
- Linking Digital Art History Content to the Web of Data: from Online Exhibitions to Linked Taiwan Artists
Shu-Jiun Chen

13:10-14:20 **Papers #8 Crowdsourcing Information** (Room 302)

Chair: Lu An

- Investigating the Antecedents of Playing Games for Crowdsourcing Location-based Content

Dion Hoe-Lian Goh, Ei Pa Pa Pe-Tham and Chei Sian Lee

- Searching for Health Information Online for My Child: A Perspective from South East Asia
Anushia Inthiran and Ireneous Soyiri
- A Comparison of User Engagement in the CDC Facebook Page During Health Crisis and Ordinary Periods
Sue Yeon Syn

14:20-15:30 Papers #9 Metadata and Linked Data (Auditorium)

Chair: Shu-Jiun (Sophy) Chen

- A Linked Data Model to Aggregate Serialized Manga from Multiple Data Providers
Senan Kiryakos and Shigeo Sugimoto
- Adaptive Web Crawling through Structure-Based Link Classification
Muhammad Faheem and Pierre Senellart
- Enhancing Digital Heritage Archives Using Gamified Annotations
Job King'Ori Maina and Hussein Suleman

14:20-15:30 Papers #10 Museums, Archives, and Citizen Journalism (Room 302)

Chair: Yejun Wu

- Visual Topical Analysis of Museum Collections
Lu An, Liqin Zhou, Xia Lin and Chuanming Yu
- Exploring the Kyoto Digital Archives Project: Challenging the Funding Model of Digital Archive Development
Noriko Asato and Andrew Wertheimer
- Participatory Journalism, Blurred Boundaries: Introducing Theoretical IS Frameworks to Re-orient Research Practices
Nora Martin

15:30-15:45 Break

15:45-16:35 Invited Speaker: Seamus Ross, Universities of Toronto and Glasgow (Auditorium)

Data Analytics and Digital Curation

We can hardly overlook the ways information and communication technology (ICT) has transformed the means by which contemporary society creates, accesses, uses, and needs to manage digital entities. The dependence by public sector institutions, commercial enterprises, and everyday products on ICT is producing massive reservoirs of digital material waiting to be assessed for disposal or long term retention. These digital materials include ever more diverse types of data, encapsulate the memories of our society, evidence of contemporary decisions, and records of discrete events (e.g. metrological

conditions, astronomical measurements) that cannot be recorded a second time. They are resources of increasingly significant social value and economic potential in the context of the methods and tools of data science. At the same time many aspects inherent in the very digitality of this material itself conspires to obscure its meaning and to make it inaccessible. Continuing to unlock the potential of data depends not only on innovation in data analytics but also on advances in digital curation. This paper examines the interdependence of data analytics and digital curation and sketches key research challenges in digital curation.

16:35-17:00 **Closing** (Auditorium)

Saturday, December 12

CiSAP 2015 (Widang Hall, Room 6th Floor)

See program on CiSAP 2015 web site

CiSAP Ideathon (Widang Hall, Room 6th Floor)

Doctoral Consortium (Widang Hall, Room 501 1PM-4:30M, by invitation only)

- Jongwook Lee, Florida State University, United States “Information Exchanged in Mentoring between Faculty Advisors and their Doctoral Students”
- Sun Guangyuan, Nanyang Technological University, Singapore “Knowledge Representation of Social Science Research Data for Data Curation and Reuse”
- Muzammil Khan, Preston University, Islamabad “Digital News Story Preservation Framework”
- Chitlada Prommakorn, Khon Kaen University, Thailand “Ontology Model for Community Enterprise Management of Thai Local Wisdom”
- Juthatip Chaikhambung, Khon Kaen University, Thailand “Development of a Semantic Digital Library of the Knowledge on Ethnic Groups in Thailand”
- Teerapol Suebchompu, Khon Kaen University, Thailand “Development of 3D Virtual Museum for Ban Chiang Masterpiece of Potteries”