

School of Information Management, Wuhan University

2020

asis&t

Asia-Pacific

Regional Conference

(Online)



Wuhan, Hubei, China December 12-13, 2020



Contents



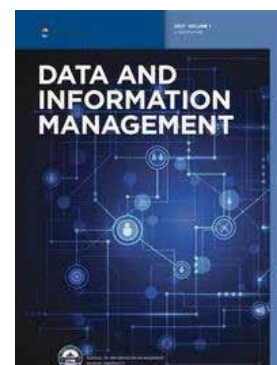
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Sponsor

Data and Information Management

Data and Information Management (DIM) aims to promote cross-disciplinary data-driven information management research, especially targeting large-scale datasets in scientific/academic, government and business domains. The journal focuses on innovative theories and technologies related to data and information processing, creative applications of theories and techniques including patterns, models, and processes in various datasets, and compatible management processes and social systems required for the realization of the substantial value that data and information offers to organizations.



Supporters

School of Information Management, Wuhan University

The School of Information Management of Wuhan University has advantages in library science theory, information science theory, information retrieval, digital publishing, electronic commerce and so on. These disciplines are in the leading position in the country.



Over the years, School of Information Management of Wuhan University has established long-term and stable cooperative relations with many international organizations and maintained good academic exchanges with many colleges. Numerous organized academic seminars and exchange activities have a far-reaching influence both at home and abroad.

Center for Studies of Information Resources, Wuhan University

The Center for Studies of Information Resources (CSIR) of Wuhan University is the national key research base of humanities and social sciences in ordinary institution of higher learning, and it is the only key research institution in this field. The purpose of CSIR is to gather social resources at home and abroad, innovate academic research mechanism, undertake major scientific research projects, produce major scientific research results, and make the institute a research base of information resources with a great influence and popularity in the world.



武汉大学
信息资源研究中心
Center for Studies of Information Resources
Wuhan University



The Big Data Institute of Wuhan University

The Big Data Institute of Wuhan University is an interdisciplinary and comprehensive academic research and service institution that engages in data science research, data platform development and data resource service. With focus on finance, business and humanity and other research fields, the institute aims to promote the theoretical and methodological innovation in data science, advance the shift towards data-driven research paradigm, spawn new academic growth points and cultivate interdisciplinary research teams. The institute aspires to become an innovation platform for theoretical research, talent training, consulting services and industrial incubation in the field of national big data strategic research and application development.



The Center for Studies of Human-Computer Interaction and User Behavior at Wuhan University

The Center for Studies of Human-Computer Interaction and User Behavior at Wuhan University (HCI-UB) is an interdisciplinary and international research institution, which is committed to understanding user cognition and behaviour in the information environment, and then improving their experience. On the basis of multi-channel, multi-group and multi-situation user experiments, HCI-UB aims to improve user participation and machine interpretability, optimise collaborative decision-making between human and AI by means of user modeling, personalized prediction, information recommendation, machine adaptive enhancement, and system fairness evaluation based on big data and artificial intelligence technology. The ultimate goal of HCI-UB is to promote the construction of intelligent service ecology in the interactive AI environment, especially in the field of public cultural service.



Asia Pacific Chapter of the Association for Information Science and Technology (AP-ASIS&T)

Asia Pacific Chapter of the Association for Information Science and Technology (AP-ASIS&T) was established in October 2012. This regional chapter aims to facilitate networking and exchange among ASIS&T members located in all Asia Pacific countries. It is also striving to contribute to their professional development and help publicize ASIS&T and its activities within the professional community in the Asia Pacific region.



Conference Introduction

ASIS&T Asia-Pacific Regional Conference (Online)

December 12-13, 2020

School of Information Management, Wuhan University

Wuhan, China

Theme: Information Behavior and Human-Computer Interaction

Introduction

Welcome to ASIS&T Asia-Pacific Regional Conference 2020! In light of the ongoing global COVID-19 pandemic, the Organizing Committee of the ASIS&T Asia-Pacific Regional Conference has decided to virtually hold this conference, and we aim to provide opportunities for both intellectually stimulating discussions and also socially engaged meetings during the virtual conference.

As an essential part of ASIS&T, the Asia-Pacific Regional Conference provides a platform to advance the information sciences and related applications of information technology, and support information professionals and organizations within the Asia Pacific area.

ASIS&T Asia-Pacific Regional Conference 2020 aims to promote the multidisciplinary and ever-evolving area of information behavior and human-computer interaction. There are various kinds of users' contextualized interactions with information, including information behavior, information practice, information seeking, information experience and so on. Human-computer interaction (HCI)

refers to a multidisciplinary field of study focusing on the design and deployment of computer technology as well as the interaction between humans (users) and computers. Various information behaviors underlie user-information interactions, which can be transformed to useful patterns to optimize information consumption. Research on relevant topics would lay a key foundation for connecting users and designers.

The conference intends to provide an open platform for the information community to engage with the dynamism of the information field. It will provide an arena for researchers and practitioners to discuss the way people interact with information and technology in a myriad of contexts. The challenging work concerning contextualized information activities will be presented through papers, panel discussions and so on. Scholars, students, and professionals from information science, library science, communication studies, information management, education, management science, psychology, sociology, information systems, computer science, and other disciplines contributing to the research field are warmly welcomed.

The accepted papers' topics include, but are not limited to the followings:

- Contextualized Information Behavior
- Information Behavior during Crises
- Human-computer Interaction, Human-technology Interaction
- User Experience and Usability
- Information Seeking, Needs and Use
- Search Tasks and Evaluation
- Collaborative Information Seeking, Human Collaboration and Cooperation
- Human-Aware Planning and Behavior Prediction
- Information Architecture, Information Design
- Information Ethics, Computing Ethics
- Human Computer / Robot Interactions & Interfaces
- Intelligent User Interface for Web Systems
- Virtual Reality, Augmented Reality
- Dialogue System and Question Answering
- Deep Learning for Information Representation
- Recommendation Systems
- Reasoning in Semantic System
- Opinion Extraction and Trend Spotting
- Evolution and Surveillance of Public Opinion
- Simulating Humans
- Explainable AI
- Active Learning from Imperfect Labeling
- Multi-instance/Multi-label/Multi-view learning
- Information Extraction and Summarization
- Community Informatics, Online Communities
- Computing, Sustainable Computing
- Data Mining, Text Mining and Web Mining in Data Intensive Environments (e.g. Social Media)
- Data Science, Data Analytics, Social Analytics
- Sustainability and Societal Impact of IS
- Social Informatics, Social Computing, Socio-technical Design
- IS in Healthcare
- Health Information Behavior and Smart Health in COVID-19
- Public Opinion Analysis in Emergencies/ Crises

Awards

The Best Paper Awards: The journal Data and Information Management will sponsor for two best paper awards for both long papers and short papers, one for each.

The Best Paper Nominations: The journal Data and Information Management will sponsor for four nominations for both long papers and short papers, two for each.

Contacts

Email: dim@whu.edu.cn

Conference Website

<https://www.asist.org/chapters/asiapac/events/2020-regional-meeting/>



Organizing Committee

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Program Committee

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Yuqiao Jiao (Wuhan University)

Zhongwei Cai (Wuhan University)

Zerui Lin (Wuhan University)

Chongwen Zhao (Wuhan University)



ASIS&T Asia-Pacific Regional Conference Program

Note:

All time shown in the program is in Beijing Time (UTC+8). Please convert to your local time zone.

Date: Saturday, 12/Dec/2020 (Beijing Time UTC+8)

Opening Ceremony

Host: Dan Wu (ASIS&T AP 2020 Conference Chair / Professor, School of Information Management, Wuhan University, China)

Welcoming Address	8:30AM - 8:40AM	Feicheng Ma	ASIS&T AP 2020 Conference Chair / Dean / Senior Professor Big Data Research Institute, Wuhan University, China
	8:40AM - 8:50AM	Clara M. Chu	ASIS&T Immediate Past President / Director / Mortenson Distinguished Professor Mortenson Center for International Library Programs, University of Illinois at Urbana-Champaign, USA
	8:50AM - 9:00AM	Michael Olsson	ASIS&T Chapter Assembly Director / Senior Lecturer and Graduate Course Adviser Faculty of Arts and Social Sciences, University of Technology Sydney, Australia
	9:00AM - 9:10AM	Tina Du	ASIS&T Asian Pacific Chapter Chair / ASIS&T AP 2020 Conference Chair / Associate Professor UniSA STEM, University of South Australia, Australia
	9:10AM - 9:20AM	Wei Lu	Dean / Professor School of Information Management, Wuhan University, China

Keynote 1

Chair: Yuelin Li (Professor, Business School, Nankai University, China)

9:30AM - 10:30AM

HCI and AI: Keeping the Human in Control
 Gary Marchionini
 Dean / Professor
 School of Information and Library Science, University of North Carolina at Chapel Hill, USA

Full Paper 1

Chair: Jiepu Jiang (Assistant Professor, Information School, University of Wisconsin-Madison, USA)

10:40AM - 12:10PM

Characteristics of Open Government Data (OGD) Around the World: A Country-based Comparative Meta-Analysis
 Rong Tang, Jie Jiang
 Simmons University, USA

Influencing Factors of Health Behavior Change During Public Health Emergency: A Case Study on A Campus Norovirus Outbreak
 Shijuan Li, Qian Jiang, Pengyi Zhang
 Peking University, China

Cross-language Fake News Detection
 Yanshu Wang, Samuel Kai Wah Chu, Runbin Xie
 University of Hong Kong, China

Full Paper 2

Chair: Chengzhi Zhang (Professor, School of Economics and Management, Nanjing University of Science and Technology, China)

1:00PM - 2:30PM

Place, Practice and Flow: Information Practices in the Mahamevnawa Buddhist Monastery
 Pethigamage Perera and Michael Olsson
 University of Technology Sydney, Australia

Factors Influencing User Behavior Intention to Use Mobile Library Application: A Theoretical and Empirical Research Based Grounded Theory
 Junren Ming¹, Rong Chen¹, Ruide Tu²
 1. Wuhan Institute of Technology, China; 2. Central China Normal University, China

An Empirical Study on the Cueing Effect of the Emotional Post Title in a Virtual Community
 Guihua Li¹, Siyan Lin¹, Weiping Yu¹, Sang Guo²
 1. Sichuan University, China; 2. Wenzhou Medical University, China



Short Paper 1

Chair: Ying Li (Associate Professor, Business School, Nankai University, China)

- 2:40PM - 4:10PM
- A Comparison Study of Measures to Quantify the Evolution of Prolific Research Teams
Bentao Zou, Yuefen Wang
Nanjing University of Science and Technology, China
- Public Sector Employee Perspective Towards Adoption of E-Government in Pakistan: A Proposed Research Agenda
Nisar Ahmad, Muhammad Waqas, Xiaojuan Zhang
Wuhan University, China
- Quality Assessment for Digital Stories by Young Authors
Joana Ka Yang Tse¹, Stephanie Wing Yan Chan², Samuel Kai Wah Chu²
1. The Education University of Hong Kong, China; 2. The University of Hong Kong, China
- Exploring Occupation Differences in Reactions to COVID-19 Pandemic on Twitter
Yi Zhao, Haixu Xi, Chengzhi Zhang
Nanjing University of Science and Technology, China

Panel 1

- 4:20PM - 5:50PM
- The Use of Social Media in Information Research
Jiang Li¹, Chris Chu², Songphan Choemprayong³, Xiao Hu⁴, and Chris Khoo⁵
1. Nanjing University, China; 2. City University of Macau, China; 3. Chulalongkorn University, Thailand; 4. University of Hong Kong, China; 5. Nanyang Technological University, Singapore

Poster

Chair: Yuxiang Zhao (Professor, School of Economics and Management, Nanjing University of Science and Technology, China)

- 6:30PM - 8:00PM
- #08 Academic versus Leisure: A Comparison of Reading and Purchasing Behaviors of Chinese E-book Users
Yu Zhu and Zhiqiang Zhang
Nanjing University, China
- #15 Not Just for the Money? An Examination of the Motives behind Physicians' Sharing of Paid Health Information
Ruidi Song, Xuekun Zhu, Yulin Yang and Xiaofei Zhang
Nankai University, China
- #22 Health Apps Assessment Under COVID-19: A Cased Study on College Students
Xinglong Tang, Jiajia Li and Shijuan Li
Peking University, China

<p>6:30PM - 8:00PM</p>	<p>#24 University Library Management System development future on achieving optimal library-user interaction in China Zhengyuan Pan University Of Sheffield, UK</p> <p>#32 Research on Influencing Factors of User Information Acquisition in Virtual Reality Environment — Take Virtual Reality Travel Magazine as an example Xiwei Wang, Ying Meng, Xiang Zhang, Duo Wang and Yueqi Li Jilin university, China</p> <p>#33 Research on Persona of Health Data Sharing Based on Wearable Devices Le Ma Wuhan University, China</p> <p>#37 Participations and Communications of Myanmar Academicians on ResearchGate among Differences Disciplines Khin Mar Shwe Wuhan University, China</p> <p>#42 Research on the Prediction Model of Users' Attention Transfer in the Context of Multi-topic Competition Lu An, Yan Shen and Gang Li Wuhan University, China</p> <p>#46 When I know your eWOMs are Fertilized: Identifying the Impact of Monetary Incentives on Product Sales Yue Ding¹, Fei Wan², Xumei Wang¹ and Zhiyi Zeng¹ 1. Southwest Jiaotong University, China; 2. Shanghai International Studies University, China</p> <p>#60 Examining the Relationship between Group Intimacy and Collaborative Sensemaking Behaviours Ke Li, Yujia Li and Pengyi Zhang Peking University, China</p> <p>#61 Users' Interactive Behavior and Emotional Experience in Using Danmu of Reading Promotion Videos Yijin Chen¹, Xiaoying Sun¹, Pengyi Zhang² and Jiazheng Zhuang¹ 1. South China Normal University, China; 2. Peking University, China</p>
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Keynote 2

Chair: Xunhua Guo (Associate Professor, School of Economics and Management, Tsinghua University, China)

<p>8:10PM - 9:10PM</p>	<p>Science Wants Numbers About People: The Numbers are Probably Wrong Jim Jansen Professor Qatar Computing Research Institute, Qatar The College of Science and Engineering, Hamad bin Khalifa University, Qatar College of Information Sciences and Technology, Pennsylvania State University, USA</p>
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Date: Sunday, 13/Dec/2020 (Beijing Time UTC+8)

Keynote 3

Chair: Pengyi Zhang (Associate Professor, Department of Information Management, Peking University, China)

8:30AM - 9:30AM

Human Information Behavior Research: From Ivory Tower to Main Street
Sanda Erdelez
Professor / Director
School of Library and Information Science, Simmons University, USA

Full paper 3 (including 1 short paper)

Chair: Rong Tang (Associate Professor, School of Library and Information Science, Simmons University, USA)

9:40AM - 11:10AM

Language and Intercultural Information Ethics Concepts: A Preliminary Discussion of Privacy
Yuanye Ma
University of North Carolina at Chapel Hill, USA

Examining User Perception and Usage of Voice Search
Ning Sa, Xiaojun Yuan
University at Albany, State University of New York, USA

International Cooperation of Artificial Intelligence Research Teams Based on Regional Cooperation Models
Jiajun Cao, Yuefen Wang
Nanjing University of Science and Technology, China

Full paper 4

Chair: Xiwei Wang (Professor, School of Management, Jilin University, China)

11:20AM - 12:50PM

Research on Influencing Factors of Personal Information Disclosure Intention of Social Media in China
Anrong Fan, Qiao Wu, Xiaofei Yan, Xiaotong Lu, Yue Ma and Xue Xiao
Nankai University, China

Information Search Trail Recommendation Based on Markov Chain Model and Casebased Reasoning
Afeng Wang¹, Yiming Zhao¹, Yijin Chen²
1. Wuhan University, China; 2. South China Normal University, China

Analysis of User Social Support Network in Online Tumor Community
Hui Lin, Shijuan Li
Peking University, China

Full paper 5

Chair: Chang Liu (Associate Professor, Department of Information Management, Peking University, China)

1:30PM - 3:00PM

Exploring Public Response to COVID-19 on Weibo with LDA Topic Modeling and Sentiment Analysis

Runbin Xie, Samuel Kai Wah Chu, Dickson Kak Wah Chiu, Yangshu Wang, Runbin Xie
University of Hong Kong, China

Visualization of Emergency Needs Posted on Social Media by Metaphor Map

Xiaoyue Ma¹, Kecheng Cui², Chuwei Ji¹, Pengzhen Xue²

1. Xi'an Jiaotong University, China; 2. Xidian University, China

How Users' Gaze Behavior is Related to Their Quality Evaluation of a Health Website Based on HONcode Principles?

Qin Qin¹, Qing Ke¹, Jia Tina Du², Yushan Xie¹

1. Nanjing University, China; 2. University of South Australia, Australia

Short paper 2

Chair: Yongqiang Sun (Professor, School of Information Management, Wuhan University, China)

3:10PM - 4:40PM

Examination of Effects of Time Constraint and Task Type on Users' Query Typing Behaviors

Hanqi Peng¹, Yanyi Qian², Chang Liu¹

1. Peking University, China; 2. Carnegie Mellon University, USA

Exploring Significant Characteristics and Models for Classification of Structure Function of Academic Documents

Bowen Ma, Chengzhi Zhang, Yuzhuo Wang

Nanjing University of Science and Technology, China

Examining Cooking Hobbyists' Information Seeking Behavior in Different Situations and in Different Stages from a Serious Leisure Perspective

Tien-I Tsai, Hsuan-Yi Chen

National Taiwan University, China

Adoption of E-Services and Quality of Life Among Older Consumers in China

Muhammad Waqas, Nisar Ahmad, Jiang Wu

Wuhan University, China

Panel 2

4:50PM - 6:20PM

INFODEMIC: Standpoints and Solutions from Information scientists

Hui Yan¹; Chang Liu²; Pengyi Zhang²; Lei Pei³; Kun Huang⁴; Lin Wang⁵; Zhenjia Fan⁶; Dan Wu⁷

1. Renmin University of China; 2. Peking University; 3. Nanjing University; 4. Beijing Normal University; 5. Tianjin Normal University; 6. Nankai University; 7. Wuhan University



Keynote 4

Chair: Qinghua Zhu (Professor, School of Information Management, Nanjing University, China)

7:30PM - 8:30PM

Challenges and Opportunities in Real NLP Applications
Bin Wang
Director / Chief Scientist
Artificial Intelligence Laboratory, Xiaomi Technology Co., Ltd, China

Closing

Host: Jiang Wu (Associate Dean / Professor, School of Information Management, Wuhan University, China)

Closing Remark

8:40PM - 8:50PM

**Lihong
Zhou**

Associate Dean / Professor, School of Information Management, Wuhan University, China

**Award
Announcement**

8:50PM - 9:00PM

**Tingting
Jiang**

ASIS&T AP 2020 Program Chair / Professor
School of Information Management, Wuhan University, China

**Volunteer
Recognition
Certificate**

9:00PM - 9:10PM

Lu An

ASIS&T AP 2020 Local Chair / Professor
School of Information Management, Wuhan University, China

Closing Remark

9:10PM - 9:20PM

Sam Chu

ASIS&T Chapter Assembly Director / Associate Professor
Faculty of Education, University of Hong Kong, China

Keynotes

Saturday, December 12

HCI and AI: Keeping the Human in Control

Gary Marchionini, Dean / Professor

School of Information and Library Science, University of North Carolina at Chapel Hill, USA

ABSTRACT

For 50 years, scholars have studied the ways that people interact with computers (HCI) to both discover how to give people better control over systems that aid their work and lives, and to understand how computers and these interactions affect people. As technology and the field of HCI advanced most of the attention focused on the former aim, resulting in more human-oriented control. Direct manipulation, multi-modal input and output, and wearable devices make computational power naturally "at hand". As computers became more ubiquitous and embedded in the environment, attention shifted from focus on interacting with physical devices to human information interaction because it is the

units and streams carried in and by the technology that have physiological and psychological effects. In effect, as Wieser predicted, the computer became the ubiquitous and invisible medium of information flow. Scholars study how people interact with novel representations for digital streams (e.g., audio visuals, dynamic visualizations) and attention is shifting to consider not only how to make these more effective for control and engagement but how they are affecting us. I suggest that the rapid advance of AI techniques and the data-driven surveillance economy signal another important shift in what scholars in HCI, UX, HIB, HCIR, and ICT will investigate. As the electronic ecology anticipates our individual and collective needs before

we even realize we have those needs, and crucially, suggests or motivates needs, it is important that we understand how this ecology affects us. We have gone from studying how we can give people control over new and distinctive (discrete) built entities to a full environment of computational agents that increasingly exercise control over us. I refer to the collective effects of the electronic ecology as the digital exposome. I suggest that our research agenda should more actively investigate the digital exposome so that we can learn and build strategies and tools that return control to humans, including the option of making conscious decisions to give control to the computational agent.



BIOGRAPHY



Gary Marchionini is the Dean and Cary C. Boshamer Professor at the School of Information and Library Science of University of North Carolina at Chapel Hill. His research interests include

information interaction, human-computer interaction, human-centered computing, information retrieval, digital libraries, information architecture, digital government, cyberspace identity, information policy. He heads the Interaction Design Laboratory at SILS. His Ph.D. was from Wayne State University in mathematics education with an emphasis on educational computing. He was previously professor in the College of Library and Information Services at the University of Maryland and a member of the Human-

Computer Interaction Laboratory. Professor Marchionini served for ten years as the Director of Evaluation for the Perseus Project (a digital library devoted to classical culture) and served for two years as the General Editor of Hypertext Publications for the Association of Computing Machinery. He was Editor-in-Chief for the ACM Transaction on Information Systems from 2002-2008. Now, he is the Editor-in-Chief of Data and Information Management.

Keynotes

Saturday, December 12

Science Wants Numbers About People: The Numbers are Probably Wrong

Jim Jansen, Professor

Qatar Computing Research Institute, Qatar

The College of Science and Engineering, Hamad bin Khalifa University, Qatar

College of Information Sciences and Technology, Pennsylvania State University, USA

ABSTRACT

Science (as well as the industry, government, non-profits, and university sectors) want, use, and depend on numbers for situational awareness and then make decisions based on these numbers. However, what if the numbers are wrong? Unfortunately, for numbers concerning people and behaviors, there is ample evidence that the numbers are often wrong. As a case study, we "peel back the onion" on the numbers from a large-scale web traffic study of 86 worldwide websites comparing two web analytics tools. One tool is a site-centric service, and one uses a triangulation of user, site, and network-centric methods. The resulting numbers for the three standard analytics metrics evaluated are statistically different. However, which set of numbers is "more" right? A deductive analysis shows that both approaches are inaccurate and imprecise, even though advertising and other decisions worth hundreds

of billions of US dollars annually are made using these numbers. The talk ends with recommendations to move forward for the reporting of numbers in this and related contexts.

BIOGRAPHY



Jim Jansen is a Principal Scientist in the social computing group at the Qatar Computing Research Institute, Professor in the College of Science and Engineering, Hamad bin Khalifa University, and Adjunct Professor at the College of Information Sciences and

Technology at The Pennsylvania State University. He is a graduate of West Point and has a Ph.D. in computer science from Texas A&M University, along with master degrees from Texas A&M (computer science) and Troy State (international relations). Jim is the editor-in-chief of Information Processing & Management. He has served as a Senior Fellow at the Pew Research Center with the Pew Internet and American Life Project. Jim has authored or co-authored 300 or so research publications, with articles appearing in a multi-disciplinary and extremely wide range of journals and conferences .



Keynotes

Sunday, December 13

Human Information Behavior Research: From Ivory Tower to Main Street

Sanda Erdelez, Professor / Director

School of Library and Information Science, Simmons University, USA

Abstract:

If you asked someone “How is your information behavior today?” they would give you a strange look. While human information behavior (HIB) is a well-established field of library and information science (LIS) research, outside of academic research circles there is little popular understanding of it even though it is experienced in every aspect of people’s lives. Hidden from top-of-mind awareness, information behavior is embedded in our everyday activities from work and education to shopping, politics and dating. Since the early 1950s, all these areas have been extensively studied by HIB researchers and numerous theories and models have emerged. On the applied side, this research often aims to improve provision of information services and information system design that ultimately, but indirectly, benefit users. Outside of academic research, massive amounts of digital HIB are routinely being collected, analyzed with most sophisticated computing tools,

and monetized for corporate profits. Building upon growing trends in self-tracking and quantified self, how can LIS researchers popularize information behavior to help people recognize its value, learn how to self-evaluate it and ultimately own it as a dimension of their personal growth and achievement?

BIOGRAPHY

Sanda Erdelez is a Professor and Director at Simmons University School of Library and Information Science. She received her LL.B. and LL.M degrees from the University of Osijek Law School (Croatia) and Ph.D. in information transfer from Syracuse University. She was also a faculty member at the University of Missouri, University of Texas at Austin and University of Osijek. Her research interests include human information behavior, human-computer interaction and usability evaluation in online environments. She published over 80 scientific papers and gave more than 70 research presentations. She has



been internationally recognized for her pioneering research on information encountering (the role of serendipity in information behavior). Her research has received funding from both corporate and government sources including Dell Inc., SBC Communication, Texas State Government, and NSF. She is an active member of ASIS&T, where she has served in numerous leadership roles including the chair of Special Interest Group on Information Seeking and Use (SIG USE) and the member of ASIS&T Board of Directors. In 2015, Dr. Erdelez received the Outstanding Contribution to Information Behavior Research Award from SIG USE and also became a member of the SIG USE Academy of Fellows.

Keynotes

Sunday, December 13

Challenges and Opportunities in Real NLP Applications

Bin Wang, Director / Chief Scientist

Artificial Intelligence Laboratory, Xiaomi Technology Co., Ltd, China

ABSTRACT

In this talk, I will first briefly review how NLP research and applications affect each other in the past decades. These applications include machine translation, information search, opinion mining and news feeds. Then I will summarize some possible challenges in real NLP applications, which involve data sparseness, model selection and high cost problems. Some experiences or solutions for these problems at Xiaomi will also be introduced, as well as the real effects in our NLP applications or products. Finally, I will try to list some opportunities in future NLP applications.



joining MI, he was engaged in scientific research related to natural language processing and information retrieval in the Chinese Academy of Sciences. And he has worked as a doctoral supervisor and a researcher of the Chinese Academy of Sciences and a professor at the University of Chinese Academy of Sciences. He has published and co-published nearly 150 academic papers, and his achievements in scientific research have won 2 Second Class Prizes of The State

Scientific and Technological Progress Award and 3 provincial and ministerial technology awards. He is the director of Chinese Information Processing Society of China and the editorial board member of Journal of Chinese Information Processing. He is also the member of the special committee of many famous institutions including the Computational Linguistics, Information Retrieval, Language & knowledge Computing and Social Media Processing of Chinese Information Processing Society and so on. And he is the member of China Computer Federation Technical Committee on Chinese Information Technology. Moreover, he has been a member of the procedure committee of SIGIR, ACL, WWW, IJCAI, AAAI, CIKM and other important conferences for a long time.

BIOGRAPHY

Bin Wang is the Director of the Artificial Intelligence Laboratory of MI and the Chief Scientist of NLP. Before



Awards

The Best Paper Awards

Long Paper:

Title: How Users' Gaze Behavior is Related to Their Quality Evaluation of a Health Website Based on HONcode Principles?

Authors: Qin Qin, Qing Ke, Jia Tina Du and Yushan Xie

Affiliation: Nanjing University; University of South Australia.

Abstract:

While the health website is an easily accessible source for patients to use when seeking health information, the quality of online health information has been a critical issue that concerns all stakeholders in healthcare. The aim of this research was to examine the relationship between users' evaluation of the health website quality and their gaze behavior on the web pages. Eye tracking and a self-report questionnaire based on the HONcode principles were used to address the objective. We found that (1) the evaluations of authority, privacy, financial disclosure, and advertising policy are positively correlated with the fixation count and total fixation duration toward corresponding page components,

while the evaluations of complementarity and attribution are negatively correlated with the fixation count and total fixation duration to corresponding page components; and (2) the fixation count and total fixation duration toward health information sources are negatively related to the evaluation of health website quality, while the fixation count and total fixation duration to site owner are positively related to the quality evaluation. Users' attention to page components is closely related to the evaluation of principles, and also has a certain impact on the overall quality evaluation of a health website. Based on the findings, our research may serve to improve the health website design and be a foundation to develop an automatic evaluation approach of the health website quality.

Link:

<https://content.sciendo.com/view/journals/dim/5/1/article-p75.xml>

Short Paper:

Title: Examination of Effects of Time Constraint and Task Type on Users' Query Typing Behaviors

Authors: Hanqi Peng, Yanyi Qian and Chang Liu

Affiliation: Peking University; Carnegie Mellon University

Abstract:

Contextual factors have been found to be an important factor in information searching behaviors, however, little attention has been paid to the influence of contextual factors on users' query typing behaviors. This study aims to explore the influence of two different contextual factors (with or without time constraint and two kinds of task

type) on users' query typing behaviors. We recruited 40 college students and conducted a user experiment, in which each participant completed two types of search tasks (Fact Finding and Information Understanding) in two different time conditions. The results show that time constraint encourages users to increase their query typing speed. Furthermore, the task type affects query length and rate of keystroke errors.

Link:

<https://content.sciendo.com/view/journals/dim/5/1/article-p48.xml>



The Best Long Paper Honorable Mention

Title: Exploring Public Response to COVID-19 on Weibo with LDA Topic Modeling and Sentiment Analysis

Authors: Runbin Xie, Samuel Kai Wah Chu, Dickson Kak Wah Chiu and Yangshu Wang

Affiliation: University of Hong Kong

Abstract:

Coronavirus disease 2019 (COVID-19) pandemic-related information are flooded on social media, and analyzing this information from an occupational perspective can help us to understand the social implications of this unprecedented disruption. In this study, using a COVID-19-related dataset collected with the Twitter IDs, we conduct topic and sentiment analysis from the perspective of occupation, by leveraging Latent Dirichlet Allocation (LDA)

topic modeling and Valence Aware Dictionary and sEntiment Reasoning (VADER) model, respectively. The experimental results indicate that there are significant topic preference differences between Twitter users with different occupations. However, occupation-linked affective differences are only partly demonstrated in our study; Twitter users with different income levels have nothing to do with sentiment expression on covid-19-related topics.

Link:

<https://content.sciendo.com/view/journals/dim/5/1/article-p86.xml>

Title: Characteristics of Open Government Data (OGD) Around the World:
A Country-based Comparative Meta-Analysis

Authors: Rong Tang and Jie Jiang

Affiliation: Simmons University

Abstract:

In this paper, we report the results of a meta-analysis of 50 publications on international Open Government Data (OGD) practices instantiated via their OGD sites or portals. Specific information about 67 individual countries'/regions' OGD sites was extracted and compared, including the levels of OGDs, the number and types of data formats, the number of datasets, and the number and

types of data categories. Upon comparing the data characteristics by types and countries, the top 10 countries based on the number of data formats, datasets, and data categories were presented. Significant correlations were found among individual countries' number of data formats, datasets, and data categories. Follow-up research that examines, confirms, and traces the data processing capacity of international OGDs is currently underway.

Link:

<https://content.sciendo.com/view/journals/dim/5/1/article-p11.xml>



The Best Short Paper Honorable Mention

Title: A Comparison Study of Measures to Quantify the Evolution of Prolific Research Teams

Authors: Bentao Zou and Yuefen Wang

Affiliation: Nanjing University of Science and Technology

Abstract:

Scientific research teams play an increasingly significant role in scientific activities. To better understand the dynamic evolution process of research teams, we explored measures that quantify the evolution of prolific research teams. We collected our data from the Web of Science in the field of artificial intelligence, and applied the label propagation algorithm to identify research teams in the co-authorship

network. The Top 1‰ prolific teams were selected as our research object, whose node stability and two types of edge stabilities were measured. The results show that prolific teams are much more stable during the evolution process, in terms of both member and membership stability. The measure of stability has varying degrees of impact on teams with different sizes, and small-sized teams get considerably different stability results by different measures.

Link:

<https://content.sciendo.com/view/journals/dim/5/1/article-p56.xml>

Title: Examining User Perception and Usage of Voice Search

Authors: Ning Sa and Xiaojun Yuan

Affiliation: University at Albany, State University of New York

Abstract:

With the development of mobile technologies, voice search is becoming increasingly important in our daily lives. By investigating the general usage of voice search and user perception about voice search systems, this research aims to understand users' voice search behavior. We are particularly interested in how users perform voice search, their topics of interest, and their preference toward voice search. We elicit users' opinions by asking them to fill out an online survey. Results indicated that participants liked voice search

because it was convenient. However, voice search was used much less frequently than keyboard search. The success rate of voice search was low, and the participants usually gave up voice search or switched to keyboard search. They tended to perform voice search when they were driving or walking. Moreover, the participants mainly used voice search for simple tasks on mobile devices. The main reasons why participants disliked voice search are attributed to the system mistakes and the fact that they were unable to modify the queries.

Link:

<https://content.sciendo.com/view/journals/dim/5/1/article-p40.xml>



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