

Scientific Program of PNC 2004

October 19 (Tuesday), 09:00-09:45, Room 1
Opening Ceremony

Chaired by: Ovid J.L. TZENG, Vice-President of Academia Sinica, Taiwan / Chair of Pacific Neighborhood Consortium

09:00-09:30

Welcome Remarks:

Ts'ui-jung LIU, Vice- President of Academia Sinica, Taiwan

James H.Y. TAI, Director General of Department of Humanities and Social Sciences, National Science Council, Taiwan

Tony FERGUSON, Chair of Pacific Rim Digital Library Alliance

Lewis LANCASTER, President of University of the West/ Electronic Cultural Atlas Initiative

October 19 (Tuesday), 09:45-10:45, Room 1
Session: Digital Library 1

Chaired by: Tony FERGUSON, Hong Kong University

09:45-10:05

The Emerging Context of the Digital Library – e-Asia II

Robert FELSING, University of Oregon

10:05-10:25

The USC Digital Archive: Past, Present and Future

Lynn O'LEARY, Timothy STANTON, Jewel WARD
University of South California

10:25-10:45

Korean Digital Materials

Joy KIM, University of South California

October 19 (Tuesday), 09:45-10:45, Room 2

Session: GIS 1

Chaired by: Ruth MOSTERN, University of California, Merced

09:45-10:05

Applications and Prospects of Historical GIS in Digital Archive

I-Chun FAN, Piling PAI, Hsiung-Ming LIAO

Academia Sinica, Taiwan

10:05-10:25

Time Map on Historical Maritime Exchanges between Vietnam, Thailand, and Japan

Mamoru SHIBAYAMA, Kyoto University

Atsushi KAJIYAMA, Venkatesh RAGHAVAN, Osaka City University

10:25-10:45

Integrating Digital Resources in Space and Time: GIS in the Arts and Humanities

Paul S. ELL, Centre for Data Digitisation and Analysis, Queen's University, Belfast

October 19 (Tuesday), 11:00-12:40, Room 1

Session: Digital Library 2

Chaired by: Assunta PISANI, Stanford University

11:00-11:25

California Explores the Ocean Digital Library Initiative

Luc DECLERCK, University of California, San Diego Libraries

11:25-11:50

Digital Projects of the National University of Singapore Libraries

Sylvia YAP, National University of Singapore

11:50-12:15

Current East Asia Digital Resource Center at SDSC

Jim CHENG, UCSD Libraries

12:15-12:40

SNU Digital Library Special Collections Digitization and Digital Preservation of e-Kyujanggak Royal Library Collections

Nam-jin HUH, Young-ae KIM, Seoul National University Library

October 19 (Tuesday), 11:00-12:40, Room 2

Session: GIS 2

Chaired by: I-Chun FAN, IHP, Academia Sinica, Taiwan

11:00-11:20

Using Spatial Analysis with Historical GIS: Problems and Opportunities

Ian N GREGORY, Centre for Data Digitisation and Analysis, Queen's University, Belfast

11:20-11:40

Design of Visualization for Historical Statistic Datasets

Chun-Lin KUO, Keio-GSEC Rekisow Project, Keio University, Tokyo

Makoto HANASHIMA, Institute for Areal Studies, Foundation (IAS), Tokyo

Kenichi TOMOBE, KEIO University, Tokyo

***PAPER**

11:40-12:00

Animations Online: Extending the OGC Web Map Server Specifications

Ian JOHNSON, Archaeological Computing Laboratory, Spatial Science Innovation Unit, University of Sydney

12:00-12:20

Community GIS Over the Web: A Categorization and Analysis

Tyng-Ruey CHUANG, Andrea Wei-Ching HUANG

Institute of Information Science, Academia Sinica, Taiwan

12:20-12:40

GIS-Based Approach for Participatory Indigenous Mapping

Bor-Wen TSAI, Changyi CHANG, Tsujen DING, Chunchiang LIN

National Taiwan University

October 19 (Tuesday), 14:00-15:50, Room 1
Session: Digital Library 3

Chaired by: Tony FERGUSON, Hong Kong University

14:00-14:35

East Asian Digital Library Developments in UC Berkeley

Peter ZHOU, Tom LEONARD

University of California, Berkeley

14:35-15:10

Moving Toward a Virtualized Digital Library: On the Digital Content Services of the National Central Library

Hsiao-Ming YU, Shu-Fen LIN, Mei-Jane SUN, Li-Ling CHEN, Huei-Chin SUNG, Cheng-Ruei CHEN

Information Division of the National Central Library

15:10-15:45

Digitalizing the Heritage Archives in National Taiwan University Library

Chiung-min TSAI, National Taiwan University Library, Taipei

Jieh HSIANG, Department of Computer Science and Information Engineering, National Taiwan University Library

October 19 (Tuesday), 14:00-15:50, Room 2
Session: ECAI Plenary

Chaired by: Lew LANCASTER, University of California, Berkeley

14:00-14:25

ECAI-Where Are We? Accomplishments and Challenges

Jeanette ZERNEKE, University of California, Berkeley

14:25-14:50

Recent Developments in TimeMap and the TimeMap Open Source Consortium

Ian JOHNSON, University of Sydney

14:50-15:15

Gazetteers and Maps to Improve Library Catalogs

Michael K. BUCKLAND, University of California, Berkeley

15:15-15:40

The Religious Atlas of China and the Himalayas: Digital Gazetteer Design for Cultural Atlas Development

Ruth MOSTERN, University of California, Merced

October 19 (Tuesday), 16:20-18:00, Room 1

Session: Digital Museum

**Chaired by: Paritta Chalernpow KOANANTAKOOL, Maha Chakri Sirindhorn
Anthropology Centre(SAC)**

16:20-16:45

***Unified Knowledge-based Content Management for the Digital Archives
Project of National Museum of Natural Science, Taiwan***

Tienyu HSU, Department of Information, National Museum of Natural Science

16:45-17:10

***Innovative Value-added Applications of Digitized Art Content at the National
Palace Museum, Taipei***

Chi-Fang CHANG, Shu-Chen TSUI, Chienchih CHEN, Jewel LIN
Information Management Center, National Place Museum

17:10-17:35

The Digital Development of the National Museum of History

Andrea Ming-Chu LEE, National Museum of History

17:35-18:00

***Digital Museum as An Outreaching and Marketing Tool: A Case Study of
“Digital Museum of Peinan Site and Peinan Culture Project” of National
Museum of Prehistory”***

Chian-Jin YEH, Research and Collection Division, National Museum of
Prehistory, Taitung

October 19 (Tuesday), 16:20-18:00, Room 2
Session: Cultural Atlas Resource Development

Chaired by: Ruth MOSTERN, University of California, Merced

16:20-16:40

Taiwan Buddhist Digital Archive and the Rare Books Cataloging in Dublin Core

Aming TU, The Chung Hwa Institute of Buddhist Studies & Chinese Buddhist Electronic Text Association

16:40-17:00

Digital Research Collection Supporting Scholarship in American-Philippine Relations at the Turn of the Twentieth Century

Carla Q. MONTORI, University of Michigan

17:00-17:20

Historical Atlas of Brazilian Cities. The Capitals Cities

Francisco da COSTA, Federal University of Brazil

17:20-17:40

Towards an Integrated Monitoring System for Angkor: Applications of GIS, Remote Sensing and TimeMap for Managing World Heritage Sites

Damian EVANS, University of Sydney

17:40-18:00

Integration Scientific Data in Distributed Information System of Russian Academy of Sciences

A.N. BEZDUSHNY, M.V. KULAGIN, V.A. SEREBRIAKOV

Center for Scientific Telecommunications and Information Technologies of Russian Academy of Sciences

October 20 (Wednesday), 09:15-10:00, Room 1
Session: Keynote Speech

Chaired by: Ovid J.L. Tzeng, Academia Sinica, Taiwan

09:15-10:00

A Duet of Ancient Artifacts with Modern Technology at the National Palace Museum

Shou-chien SHIH, National Palace Museum, Taiwan

October 20 (Wednesday), 10:20-12:00, Room 1
Session: Electronic Theses and Dissertations

Chaired by: Jieh HSIANG, National Taiwan University

10:20-10:50

Current Developments in UK e-theses
Neil BEAGRIE, British Library/JISC

10:50-11:10

The Electronic Theses and Dissertations Services of National Taiwan University
Jieh HSIANG, National Taiwan University

11:10-11:20

eThesys: Histories and Lessons
Sanyih HWANG, Shing-Han WANG, Shiou-Wen SUN
National Sun Yat-sen University

11:20-11:40

The Electronic Thesis and Dissertation System at the National Central Library: Its Present and Future
Hsiao-Ming YU, Li Yuan CHEN, Hsiao-Chi HSU
National Central Library

11:40-12:00

The Current Situation and Future Development of ETD Consortium in Taiwan
Arthur CHEN, Academia Sinica Computing Centre, Taiwan

October 20 (Wednesday), 10:20-12:00, Room 2
Session: e-Learning

Chaired by: Kim-joan CHEN, Ministry of Education, Taiwan

10:20-10:40

The Next Generation of e-Learning – Challenges and Opportunities in Australia and Globally
Darren ROSSITER, Griffith University

10:40-11:00

E-Learning Development in Higher Education in Taiwan
Kim-Joan CHEN, Ministry of Education, Taiwan

11:00-11:20

The National Central Library and E-Learning

Bau-Mei CHENG, National Central Library, Taiwan

11:20-11:40

A Social Construction of Technology (SCOT) Model of the Failure of Web-based Distance Delivery Programs in Traditional Universities

John LEHMAN, University of Alaska Fairbanks

11:40-12:00

From Education to e-Learning : An Union Catalog Service of Learning Resources in Taiwan

Jan-Ming HO, National Science Council

Pei-Xian KUO, Jyun-Jie YAN, Institute of Information Science, Academia Sinica, Taiwan

October 20 (Wednesday), 12:30-14:00, Lecture Hall

Session: Demo 1

12:30-13:00

Chiung-min TSAI, National Taiwan University

13:00-13:30

Chi-Fang CHANG, Chiu-Ping WANG, National Palace Museum

13:30-14:00

National Central Library, Taiwan

October 20 (Wednesday), 14:00-15:30, Room 1

Session: Metadata

Chaired by: Michael BUCKLAND, University of California, Berkeley

14:00-14:30

A Review on Metadata Development in National Archives Program in Taiwan

Arthur CHEN, Academia Sinica Computing Centre, Taiwan

14:30-15:00

Towards Data Discovery, Reuse And Integration: Standard for Ecological Metadata

Jian-Hui LI, Yanfei HOU, Lianglin HU

Computer Network Information Center, Chinese Academy of Sciences, China

15:00-15:30

A Tool for Metadata Management

Shih LIN, Academia Sinica Computing Centre, Taiwan

October 20 (Wednesday), 14:00-15:30, Room 2

Session: Cultural Atlases as Learning Resources

Chaired by: Ian GREGORY, University of Portsmouth

14:00-14:20

ECAI in the Classroom

Lewis LANCASTER, University of California, Berkeley

14:20-14:40

Visualising British and Irish Census Data in the Classroom: A SECOS Database

Paul S. ELL, Centre for Data Digitisation and Analysis, Queens University, Belfast

14:40-15:00

ECAI in the Classroom: The Relationship Between Resources and Teaching

Jeanette ZERNEKE, University of California, Berkeley

15:00-15:20

Preliminary Thoughts on Spatial Information in the Humanities and Social Science Classroom

Ruth MOSTERN, University of California, Merced

October 20 (Wednesday), 14:00-15:30, Room 3

Session: Culture Heritage

Chaired by: Ts'ui Jung LIU, Academia Sinica, Taiwan

14:00-14:20

Anthropology and Cultural Heritage for Community Museums in Thailand

Paritta ChalermPow KOANANTAKOOL, Maha Chakri Sirindhorn Anthropology Centre (SAC)

14:20-14:40

From Commons to Communications

Inghai PAN, Academia Sinica, Taiwan

14:40-15:00

Cultural Heritage of Betel Nut Chewing in Hainan and Taiwan: An Electronic Dissertation Prototype

Christian ANDERSON, Anthropology Department, University of Southern California

15:00-15:20

Boudhnath Stupa and Its Environs: A Vatican of Tibetan Buddhism in Nepal

Min Bahadur SHAKYA, Nagarjuna Institute, A Center for Buddhist Studies

October 21 (Thursday), 09:00-10:30, Room 1

Session: e-Resource

Chaired by: Curtis HARDYCK, University of California, Berkeley

9:00-9:30

E-Journal Initiatives at the Chinese University of Hong Kong

Rita WONG, The Chinese University of Hong Kong

9:30-10:00

A Database of Documents and Bibliographies for Social Sciences in Northeast Asia (NEARDB)

Masatoshi ISHIKAWA, Department of Electrical Engineering and Computer Science, Osaka Prefectural College of Technology

Toshihiko KISHI, Osamu INOUE, Department of Policy Studies, the University of Shimane

10:00-10:30

e-Resources Development for South-East-Asia

i-Group Inc.

October 21 (Thursday), 09:00-10:30, Room 2

Session: Biodiversity 1

Chaired by: Kwang-Tsao SHAO, Institute of Zoology, Academia Sinica, Taiwan

09:00-09:30

Conserving Biodiversity through the Internet: the Fish Example

Eli AGBAYANI, WorldFish Center Philippine Office

09:30-10:00

Taiwan Biodiversity Information Facility Project: Developing Information Infrastructure and Integrating Databases

Jr-Chuan HUANG, Kwang-Tsao SHAO, Ching-I PENG, Research Center for Biodiversity, Academia Sinica, Taiwan

Hsin-Hui WU, Kun-Chi LAI, Eric YEN, Computing Centre, Academia Sinica, Taiwan

10:00-10:30

The Taiwan Malacofauna Database : Biodiversity, Website and Humanity

Wen-Lung WU, Institute of Zoology and Research Center for Biodiversity, Academia Sinica, Taiwan

Wen-Cheng CHANG, Hen-Wei LIN, Wen-Shuo CHANG, Institute of Zoology, Academia Sinica, Taiwan

Shih-Jye JIAN, Chi-Yung CHEN, Research Center for Biodiversity, Academia Sinica, Taiwan

Yen-Chen LEE, Institute of Life Sciences, National Taiwan Normal University

October 21 (Thursday), 09:00-10:30, Room 3

Session: e-Science & Grid

Chaired by: Simon C. LIN, Computing Centre, Academia Sinica, Taiwan

9:00-9:20

The EGEE Grid Infrastructure Project: First Experience and Future Plans

Fabrizio GAGLIARDI, CERN

9:20-9:40

Using Data Grids to Manage Distributed Data

Reagan MOORE, San Diego Supercomputer Center

9:40-10:00

e-Science Activities in CAS and Scientific Data Grid

Kai NAN, Computer Network Information Center, Chinese Academy of Sciences

10:00-10:20

Content Management Infrastructure for e-Science

Eric YEN, Computing Centre, Academia Sinica, Taiwan

October 21 (Thursday), 10:45-12:30, Room 1
Session: Digital Archive 1

Chaired by: C.C. HSIEH, Academia Sinica, Taiwan

10:45-11:05

National Digital Archives Program of Taiwan

Der-Tsai LEE, Institute of Information Science, Academia Sinica, Taiwan

11:05-11:30

Digital Archive with Information Grid: Development in Thailand

Thaweesak KOANANTAKOOL,

National Electronics and Computer Technology Center (NECTEC)

National Science and Technology Development Agency (NSTDA)

11:30-11:55

The JISC Continuing Access and Digital Preservation Strategy

Neil BEAGRIE, British Library/JISC

11:55-12:20

Metadata and Retrieval for Digital Archives

Ray LARSON, School of Information Management and Systems, University of California, Berkeley

October 21 (Thursday), 10:45-12:30, Room 2
Session: Biodiversity 2

Chaired by: Ching-I PENG, Institute of Botany, Academia Sinica, Taiwan

10:45-11:20

Increasing Usability of Biodiversity Databases through Semantic Enrichment

Klaus RIEDE, Alexander Koenig Research Institute and Museum of Zoology

11:20-11:55

Building a Web Services Based Information System in Long Term Ecological Research Network, Taiwan

Chau-Chin LIN, Hen Biau KING, Taiwan Forestry Research Institute

11:55-12:30

An e-Book Approach to Ecological Knowledge from Biodiversity Stakeholders: Fishers, Hunters, Trappers, Traders, Consumers, and Scientists

Alan POTKIN, Digital Conservation Facility, Laos (DCFL)

October 21 (Thursday), 12:30-14:00, Lecture Hall

Session: Demo 2

12:30-13:15

Reagan MOORE, San Diego Supercomputer Center, UCSD

13:15-14:00

The Buddhist Digital Text and the Reader

Aming TU, Library and Information Center

Bhikkhu Huimin, Yen-jen OYANG, Buddhist Informatics Program, The Chung Hwa Institute of Buddhist Studies, and Chinese Buddhist Electronic Text Association

October 21 (Thursday), 14:00-15:50, Room 1

Session: National Palace Museum Plenary

Chaired by: James Quo-Ping LIN, National Palace Museum

14:00-14:20

Digitization of the Rare Books and Archival Materials in the National Palace Museum

Cheng-yun LIU, Department of Rare Books and Historical Documents

14:20-14:40

The Digitization of Antiquities Project

Alan C. CHEUNG, Pang-yen CHENG, Digital Archives Project of Antiquities, National Palace Museum

Mei-li YANG, Department of Antiquities, National Palace Museum

14:40-15:00

Towards A Museum Without Walls — Introduction of NPM E-Learning Courses on Bronze

Hsiu-ling HUANG, National Palace Museum

15:00-15:20

An Overview of Digitization Projects in National Palace Museum

James Quo-Ping LIN, Director, Information Management Center, National Palace Museum

October 21 (Thursday), 14:00-15:50, Room 2
Session: Digital Archive 2

Chaired by: C.C. HSIEH, Academia Sinica, Taiwan

14:00-14:25

OCR for Japanese Classical Documents - Segmentation of Cursive Characters

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Shoichiro HARA, National Institute of Japanese Literature

14:25-14:50

JHTI (Japanese Historical Text Initiative): A Design and Implementation of the Full Text Coordinated Retrieval System of Japanese Historical Resources Using XML

Ikuo OKETANI, Osaka International University

Delmer BROWAN, Yuko OKUBO, University of California, Berkeley

14:50-15:15

Description for Restoring Process of "Shoso-in Monjo" Using the XML/XSLT

Makoto GOTO, Graduate School of Literature, Osaka City University

Mamoru SHIBAYAMA, Kyoto University

15:15-15:40

Buddhist Digital Archive and Its Knowledge Structure – Mani Jewels Reflecting in the Indra Net

Aming TU, The Chung Hwa Institute of Buddhist Studies

Huimin BHIKKHU, Yen-jen OYANG, Buddhist Informatics Program, The Chung Hwa Institute of Buddhist Studies, and Chinese Buddhist Electronic Text Association

October 21 (Thursday), 14:00-15:50, Room 3
Session: Electronic Atlas Projects

Chaired by: Ian GREGORY, University of Portsmouth

14:00-14:20

Basic Figures on the Web: Atlas of the Metropolitan Area of Guadalajara

Edith Rosario Jiménez HUERTA, Heriberto Cruz SOLIS,

Jesús Rábago ANAYA, Maria de la Luz AYALA

Universidad de Guadalajara

14:20-14:40

Political Centers and Cultural Regions in Early Mediaeval North India

Alexander A. STOLYAROV, Russian Academy of Sciences, Moscow

14:40-15:00

Memorable Landscapes: A Digital Historical Atlas of an American College, 1837-1980

Robert M. SCHWARTZ, Mount Holyoke College

15:20-15:40

Language Mapping: Lan-Yu (Taiwan) and the Batanes of the Philippines

David BLUNDELL, National Chengchi University

Michael K. BUCKLAND, University of California, Berkeley, USA

October 21 (Thursday), 16:00-17:00, Room 1

Closing Ceremony

Chair: Simon C. LIN, Pacific Neighborhood Consortium/ Academia Sinica Computing Centre, Taiwan