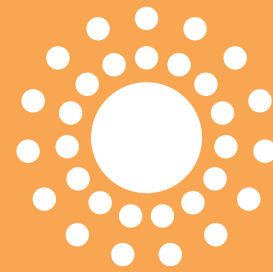




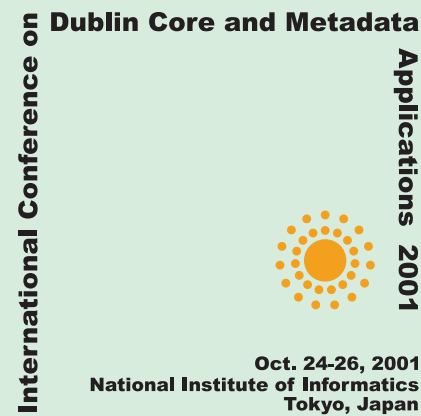
Proceedings of the International Conference on Dublin Core and Metadata Applications 2001



DC-2001 Dublin Core and Metadata Applications 2001

# Proceedings of the International Conference on Dublin Core and Metadata Applications 2001

National Institute of Informatics  
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Organized by: **National Institute of Informatics (NII)**  
**Dublin Core Metadata Initiative (DCMI)**  
**Japan Science and Technology Corporation (JST)**  
**University of Library and Information Science (ULIS)**  
**Communications Research Laboratory (CRL)**  
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(alphabetical order of names)

# **DC-2001**

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## Message from the Organizing Chair

DC-2001, International Conference on Dublin Core and Metadata Applications 2001, is the first attempt to hold an event where researchers and practitioners can exchange new ideas and demonstrate practical aspects of metadata standardization and applications by means of technical presentations, tutorials and discussions.

Since 1995 the Dublin Core workshop series has provided a forum for international, crossdisciplinary metadata development. In this context, DC-2001 is the ninth in the series, and for the first time, includes an international technical conference for the broader metadata community.

In 2000 the Dublin Core Metadata Initiative (DCMI) asked us to hold the ninth workshop in Tokyo, 2001. It is our pleasure to hold the first expanded conference here in Japan. At the same time we wished people, in particular Japanese and Asian people, to have an opportunity to obtain the latest information on a variety of aspects of metadata standardization, applications, and practices.

Despite the tragic attacks of September 11, we have among us participants from nearly 30 countries. I really appreciate the attendance of each one of you at the conference at this terrible time. The organizing committee and I also extend our condolences to those who have suffered because of this tragedy.

Six organizations, the National Institute of Informatics (NII), the National Diet Library (NDL), Japan Science and Technology Corporation (JST), the University of Library and Information Science (ULIS), the Communication Research Laboratory (CRL), and the Dublin Core Metadata Initiative (DCMI) jointly organize DC-2001. I would like to express our special thanks to these six organizations for their financial support of our activities through the domestic advisory board.

Many people have worked tirelessly to organize this conference, and, in particular, I mention Dr. Keizo Oyama, the local organizing chair, Dr. Hironobu Gotoda, Dr. Noriko Kando, Dr. Koji Eguchi, Dr. Ichiro Ide, Ms Yuko Miyamoto and Ms Urara Numata for their endeavors to make this conference successful. I also express our deepest gratitude to the Dublin Core Advisory Committee members who gave us advice.

On behalf of the organizing committee, I would like to express our heartfelt thanks to all attending DC-2001.

Professor Jun Adachi  
DC-2001 Organizing Committee Chair  
Director, Research Center for Information Resources  
National Institute of Informatics

## Message from Dublin Core Metadata Initiative

The Dublin Core Metadata Initiative has helped to create a community of people united in the common purpose of promoting cross-disciplinary resource discovery. This community, comprised of practitioners and theoreticians from many domains and sectors, is global in orientation and diverse in perspective.

DC-2001 is the first annual Dublin Core meeting in Asia, recognizing the growth of activities in the Asian metadata community as well as the growing contributions and importance of metadata developments in this region.

DC-2001 also marks the first Dublin Core meeting that includes a conference track and a tutorial track in addition to the workshop track. This broadening of scope recognizes the complementary roles of research and practice as well as the need to provide educational opportunities for new adopters.

These proceedings capture some of the vitality and diversity of the Dublin Core community—the DC 2001 Program committee received submissions from more than 20 countries. Even as the world struggles to regain its equilibrium in the face of turmoil and strife, registrants from nearly thirty countries will be in Tokyo for DC-2001 to share their ideas, work, and expectations for making information easier to find on the Internet.

The DC-2001 Program Committee, Local Organizing Committee, NII staff, and DCMI welcome participants in the hope that our collective efforts will advance the metadata agenda in particular, and the goal of better access to knowledge in general.

With sincere wishes for a productive conference,

Stuart Weibel  
Executive Director  
Dublin Core Metadata Initiative

## Message from the Program Co-chairs

The International Conference on Dublin Core and Metadata Applications 2001 (DC-2001) is, in one respect, the ninth in a series of metadata workshops that began six years ago in Dublin, Ohio, USA. These workshops have focused on the technologies, policies, semantics, and use of Dublin Core as an emerging metadata standard.

Over the past few years, however, issues related to the broader context for Dublin Core have come to the fore, such as XML and, since 1997, the Resource Description Framework, now part of a Semantic Web Activity; harvesting approaches such as Open Archives Initiative; domain-specific metadata standards and their relation to a “core”; and the constructs and policies necessary for managing namespaces and “application profiles” for automatic processing by machines.

DC-2001 has acknowledged this broadening of scope and interest by following the traditional workshop, focused on Dublin Core working groups, with a conference on metadata in general. Within the Dublin Core series, moreover, this is the such event to be held in Asia.

The conference program includes a keynote by Dr. Makoto Nagao, President of Kyoto University, leader of academic societies in computer and information sciences, and President of the Japan Library Association, who is widely known for his distinguished work in digital libraries.

As program co-chairs, we have sought to organize this conference as a forum for the exchange the ideas and experiences within the broader global metadata community. We solicited not just research papers but also implementation reports. The submissions have come from over twenty countries on five continents, on topics ranging from application profiles for various fields and reports on metadata developments in specialized areas such as government and education to advanced technologies and metadata models. Some of these topics are the focus of special sessions with invited papers.

We are particularly grateful to Dr. Jun Adachi and his colleagues at the National Institute of Informatics (NII) for hosting this event at their beautiful new facilities in central Tokyo. Our thanks, as well, to the dedicated work of a program committee of experts from fifteen countries, and to Stuart Weibel and Makx Dekkers of the Dublin Core Metadata Initiative.

Shigeo Sugimoto  
Thomas Baker