

## CONFERENCE NOTIFICATION

### **Third International Conference on the Networked Digital Technologies (NDT 2011)**

July 11-13, 2011  
University of Macau, China  
<http://www.dirf.org/ndt>

The NDT 2011 proceedings will be published in the Communications in Computer and Information Science (CCIS) Series of Springer LNCS

The proposed conference on the above theme will be held at the University of Macau, Macau, China from July 11-13, 2011 which aims to enable researchers build connections between different digital applications.

Currently, a number of institutions across the countries are working to evolve better models to provide collaborative technology services for scholarship by creating shared cyberspace thro expert collaboration, but this is a challenge for the institutions for a number of reasons. In the last few years, the landscape of digital technology applications projects for the various disciplines in humanities, social sciences, and sciences appears induced by many initiatives. For the creation of research clusters, the research community has thousands of databases, websites, local computing clusters, and web-based tools around individual themes, interests and projects. In most cases, these tools and resources are and were created to meet the specific needs of a particular community. In many cases, the funding and support for these critical initiatives is fragile and temporary, and directed in piecemeal fashion. There is a need to provide concerted efforts in building federated digital technologies that will enable the formation of network of digital technologies.

- Information and Data Management
- Data and Network mining
- Intelligent agent-based systems, cognitive and reactive distributed AI systems
- Internet Modeling
- User Interfaces, Visualization and modeling
- XML-based languages
- Security and Access Control
- Trust models for social networks
- Information Content Security
- Mobile, Ad Hoc and Sensor Network Management
- Web Services Architecture, Modeling and Design
- New architectures for web-based social networks
- Semantic Web, Ontologies (creation , merging, linking and reconciliation)
- Web Services Security
- Quality of Service, Scalability and Performance
- Self-Organizing Networks and Networked Systems
- Data management in mobile peer-to-peer networks
- Data stream processing in mobile/sensor networks
- Indexing and query processing for moving objects
- User interfaces and usability issues form mobile applications
- Mobile social networks
- Peer-to-peer social networks
- Sensor networks and social sensing
- Social search
- Social networking inspired collaborative computing
- Information propagation on social networks
- Resource and knowledge discovery using social networks
- Measurement studies of actual social networks
- Simulation models for social networks
- Green Computing

- Grid Computing
- Cloud Computing

All the papers will be reviewed and the accepted papers in the conference will be published in the “Communications in Computer and Information Science” (CCIS) of Springer Lecture Notes Series ([www.springer.com/series/](http://www.springer.com/series/)), and will be indexed in many global databases including ISI Proceedings and Scopus.

In addition, selected papers after complete modification and revision will be published in the following special issues journals.

1. Journal of Digital Information Management (JDIM)
2. International Journal of Information Studies (IJIS)
3. International Journal of Green Computing (IJGC)
4. International Journal of Web Applications (IJWA)
5. Journal of E-Technology

#### **General Chairs**

Simon Fong, University of Macau, Macau, China  
Sabah M.A. Mohammed, Lakehead University, Canada  
Sohail Asghar, Mohammad Ali Jinnah University, Islamabad

#### **Program Chairs**

Ezendu Ariwa, London Metropolitan University, UK  
Daniel Lemire, university of Quebec at Montreal, Canada  
John Hamilton, James Cook University, Australia  
Amr Abdel-Dayem, Laurentian University, Australia  
Ralph Deters, University of Saskatchewan, Canada

#### **Co-Chairs**

Eric Pardede, La Trobe University, Australia  
Farookh Hussain, Curtin University of Technology, Australia

#### **Workshop Chairs**

Russel Pears, Auckland University of Technology, Auckland, New Zealand  
Sun Aixin, Nanyang Technological University, Singapore

#### **Local Arrangement Chairs**

Zhuang Yan, University of Macau, Macau, China  
Yang Hang, University of Macau, Macau, China

# The Fourth International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2011)

August 04-06, 2011  
University of Wisconsin- Stevens Point  
USA  
<http://www.dirf.org/diwt>

## Preliminary Call for Papers

The Fourth International Conference on the Applications of Digital Information and Web Technologies (ICADIWT 2011) is a forum for scientists, engineers, and practitioners to present their latest research results, ideas, developments and applications in the areas of Computational Intelligence, Artificial Intelligence, Networking, Neural networks, Network security, Biometrics Technologies and Applications, Pattern Recognition and Biometrics Security, Bioinformatics and IT Applications in the above themes.

This conference (ICADIWT 2011) will include presentations of contributed papers and state-of-the-art lectures by invited keynote speakers.

This conference welcomes papers address on, but not limited to, the following research topics:

- Computational Intelligence
- Biometrics Technologies
- Forensics, Recognition Technologies and Applications
- Biometrics and Ethics
- Fuzzy and neural network systems
- Signal processing, pattern recognition and applications
- Digital image processing
- Speech processing
- Computational biology and bioinformatics
- Parallel and distributed computing and networks
- Information retrieval and internet applications
- Software engineering
- Biometrics and CSR
- Artificial intelligence and applications
- Databases and applications
- Genetic algorithms
- Data mining
- Real time systems
- Computer and network security
- Multi-Agent systems

Modified versions of the selected papers of the conference will be published in the following peer reviewed journals

1. Journal of Digital Information Management
2. International Journal of Web Applications
3. International Journal of Information Studies
4. Journal of E-Technology
5. Journal of Information Technology Review

## General Chair

Robert.Dollinger, University of Wisconsin Stevens-Point, USA

## Program Chairs

Sergiu Nedeveski, Technical University Of Cluj-Napoca, Romania

Weimin He, University of Wisconsin Stevens-Point, USA

Joel Rodrigues, Institute of Telecommunications/University of Beira Interior, Portugal

**Program Co-Chairs**

Patrick Seeling, University of Wisconsin Stevens-Point, USA

Tim Krause, University of Wisconsin Stevens-Point, USA

**Workshop Chair**

Dave Gibbs, University of Wisconsin Stevens-Point, USA

# Research, Funding, Jobs and Scholarships

## 1. University Awards from NEC Labs Data Management - Call for Proposals

The Data Management Department of NEC Labs America is calling for research proposals. NEC Labs conduct high-impact research and development by building upon NEC’s long history of innovation. The purpose of this program is to identify and support world-class research projects at universities and facilitate strong research collaborations. The awards through this selective program are typically for one year in the range of \$40,000-\$75,000 and in the form of unrestricted grants. As the program is supported by the Data Management Department, we are specifically soliciting proposals in the following broad areas:

**Data Management in the Cloud:** The Cloud Computing introduces new challenges and opportunities for data management. The research proposals should identify and propose solution approaches to data management problems particularly motivated by the cloud computing model.

**Data Management for Green:** The green initiatives cover wide range of topics for more efficient and environment-friendly use of natural resources, such as controlling greenhouse gas emissions, climate change, clean water etc. and the creation of new ones, such as renewable energy sources. The proposals should focus on identifying innovative and effective use of data management technologies to help and significantly advance the green initiatives in all areas. The focus of the proposals should be on the data management technologies that can play an enabler role for ambitious green initiatives, which could be extremely hard to achieve without the effective use of data management.

### Application Process:

Eligibility: Full-time faculty members from the universities worldwide may submit research proposals.

### Application Format:

- 1) Proposal Title
- 2) Principal Investigator with contact information and all affiliations
- 3) Research Abstract
- 4) Main Goals
- 5) Technical Description
- 6) Expected Outcomes and Results
- 7) Budget Requirements

The proposals should be in PDF format and maximum of 5 pages long. Please also attach the Principal Investigator’s current CV and send the electronic copy of the proposals to: [dm@nec-labs.com](mailto:dm@nec-labs.com) with the subject line “NEC Labs Data Management University Awards”

### Important Dates:

August 12, 2010: Call for Proposals Posted  
October 8, 2010: Deadline for submitting proposals  
November 15, 2010: Winners will be notified

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## 2. ORACLE

IRC1358617 – Software Engineer 3/4  
Database Manageability - Real Application Testing

Replay Technologies and Proactive Workload Intelligence: Technological progress is rapid and inevitable. Hence, change in modern IT environments is the only constant. Companies that wish to remain competitive as technology progresses, need to maintain their systems as much up-to-date with the state of the art as possible. However, the reality is that adoption of new technology can be cumbersome and very risky. There are not many effective tools that can reassure companies that new technology adoption will not have a negative impact on their day-to-day business operation. The Oracle RDBMS is the only RDBMS that provides effective tools that help with new technology adoption.

Our mission is to provide tools that will allow IT infrastructure operators to answer the following questions with very high confidence: Will my system continue to function properly after I apply change X? How much better performance can I expect if adopt feature Y? To accomplish our mission we have developed technology that allows the recording of production workload that contains the full content of real user interaction with a company's IT infrastructure. Using the production workload, our features in the Oracle Database, allow the replay of the user workload on a system that represents the new technologically more advanced system. Repeated replay sessions can identify and remedy problems before the new technology is adopted on the production systems.

Starting from Oracle 11g, the Real Application Testing feature, which combines Database Replay and SQL Performance Analyzer give Oracle customers a competitive edge in new technology adoption and a glimpse of the exciting future products in the replay technologies area. Using SPA the user can proactively assess the impact on individual SQL of any change in the RDBMS infrastructure. Using Database Replay the full force of a production workload can be unleashed on a staging system that uses new technologies that need to be proven reliable before deployment in production. Replay technologies closely collaborates with Database Manageability to fine tune operation of autonomic technologies using real workloads.

Our group is constantly exploring ground breaking ideas in this relatively new area. Many problems still are unsolved and a lot of research is still ahead. As a group member, you get to take charge and be involved in the entire development process, from research to design, coding and release. We're looking for intelligent, highly motivated engineers to help build unique technological solutions and have fun doing so as a team!

Other facts about our group:

- Filed 10 patents for the technologies released in Oracle Database 11g.
- Regularly publishes papers in well respected database conferences (SIGMOD, VLDB).
- Has the most fun outings (annual ski trip, rafting, gokarting, and many more).

If this sounds like interesting and challenging work to you, talk to us. You need a BS/MS in CS or equivalent

C/Java/Perl Linux/Linux and "distributed systems" proficient on Parallel or File Systems", transactional processing, database performance would be useful

Please contact : [colette.arno@oracle.com](mailto:colette.arno@oracle.com)

Prior to any consideration for this opportunity, Oracle requires that you complete the following 3-step process:

- Logon to <https://irecruitment.oracle.com> and create a user profile
- Keyword search IRC1358617
- Apply for the role

As part of Oracle's standard employment process, candidates will undergo a complete background check prior to an offer being extended. These background checks are conducted by a professional third party firm at no charge to the applicant and include: prior employment verification, education verification, social security trace, criminal background check and motor vehicles records (where required for position).

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### 3. Lecturer – Computing

Applications are invited for a continuing academic position to deliver high quality teaching of university level computing at the University of Southern Queensland (Australia). Candidates will be expected to have a PhD or a doctoral dissertation at submission stage. In addition to demonstrating ability to teach at undergraduate and postgraduate levels in the area of computing, a capacity to teach entry-level mathematics or statistics is essential, as are excellent written and verbal communication skills, and a proven capability to contribute to research activities.

Relevant industry or academic experience, especially in team-based ICT projects, while not essential, will be highly regarded. This position is ideal for a recent PhD graduate wishing to build an academic career in a supportive environment with a pleasant work-life balance.

Salary: Academic Level B (AUD \$69,724 to \$82,412 pa)

Ref No: 0101226B

Term: Full-time continuing (tenure track)

Posted: 06.08.2010

Closes: 20.09.2010

USQ's Toowoomba Campus is located on the beautiful Darling Downs, a scenic 90 minute drive west of Brisbane. A Toowoomba lifestyle has all the benefits of urban living, with the charm of a regional city — making it a great place for those wishing to advance their careers while escaping the hustle and bustle of the big cities.

To Apply

1. Complete a USQ Application Cover Sheet  
<https://www.usq.edu.au/hr/jobs/vacant/0101226b>
2. Complete a statement addressing each selection criteria contained in the position description
3. Attach your CV
4. Send all documentation to [jobs@usq.edu.au](mailto:jobs@usq.edu.au) by 5pm on the closing date

For more information, please contact the Head of Department (Mathematics & Computing), Dr Stijn Dekeyser.

<http://www.sci.usq.edu.au/contact.php>

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### 4. Funded postdoc position in the area of middleware for data dissemination

The group of Networks and Distributed systems at the Department of Informatics, University of Oslo is announcing a position of a postdoctoral research fellow in the area of middleware for distributing and disseminating information in large-scale dynamic systems.

The research will be carried out in collaboration with the Computer Systems group of VU University Amsterdam, in particular with the group headed by Prof. Maarten van Steen.

\*\*\* The closing date for applications is Sep 18, 2010. \*\*\*

Full version of this announcement including detailed information about the project, position, and application procedures can be found using the following links:

<http://www.ifi.uio.no/~romanvi/tdnewsopening-postdoc.html>

<http://uio.easycruit.com/vacancy/438912/64290?iso=no>

### Employment Details

A postdoc position is a regular job with social benefits and with salary starting from 448.200 NOK per year.

The position is for the period of two years.

**Host Institution and Environment**

The University of Oslo is Norway's largest and oldest institution of higher education. Founded in 1811, today the University of Oslo has approx. 30,000 students and 4,600 employees. Four Nobel Prize winners and two Turing award recipients indicate the quality of the research at the University in general and at the Department of Informatics in particular.

The country, also known for its unique scenic beauty, has been ranked by the UN as having the highest standard of living in the world. Oslo is considered one of the sunniest places in Northern Europe, with summer temperatures averaging 21 degrees Celsius.

**Suitable Background And Requirements**

Applicants must have a PhD degree in Computer Science, or in a related study, with excellent results. They must also be able to demonstrate interest in scientific research. The ideal candidate for the position will have strong background in distributed computing.

You may apply if you have not yet completed your degree, but expect to do so before the position starts.

University of Oslo is an equal opportunity employer.

Knowledge of Norwegian is not a prerequisite for application. English is our working language for research. The current PhD students and postdocs in our group are coming from more than 5 different countries.