



CALL FOR PAPERS

The *24th* IASTED International Conference on Parallel and Distributed Computing and Systems ~*PDCS 2012*~

November 12 – 14, 2012
Las Vegas, USA

SPONSOR

The International Association of Science and Technology for Development (IASTED)

CONFERENCE CHAIR

[Dr. Teofilo Gonzalez](#)

UC Santa Barbara, USA



LOCATION

[Las Vegas](#), dubbed the Entertainment Capital of the World, lies in the heart of the stunning Nevada desert, a glamorous getaway for anyone in search of exciting nightlife, glittering casino hotels, and dazzling lights. Over 38.9 million visitors pour into the city every year, and it's easy to see why: nowhere else in the world hosts such

an overwhelming combination of 5-star hotels, celebrity-chef restaurants, and world-famous attractions unique to the area. In fact, there you'll find 17 of the 20 biggest hotels in the US. Stay in the world-famous Caesar's Palace, take gambling lessons and then show off your skill at the MGM Grand, shop at malls with resident DJs, cheer with the crowd at a boxing match, and be amazed at incredible Cirque du Soleil shows. While cruising the Strip, you'll walk through the Bellagio Fountains, see magic shows, and laugh the night away at one of many comedy clubs. If you decide to visit the Fremont East District downtown instead, you'll find countless bars and bistros with live music and eclectic cocktails, and stroll through the artist collective in the Emergency Arts building, complete with writing, photography, clothing designs, and more. You might also catch the Fremont Street Experience: 12.5 million lights and 550,000 watts of sound that will blow you away. If you prefer to be outside the city's nightlife, try swimming with the sharks at the Shark Reef Aquarium, ride the roller-coasters, sky-dive over the city, and zip-line over the sky-scrapers. For a quieter day, relax for hours at a health spa, golf, wander through the Las Vegas Zoo (home to over 150 species of animals and plants), or discover the city's history at the Neon Museum. The Smith Centre for the Performing Arts, in Symphony Park, hosts Broadway shows as well as orchestra, opera, and dance performances. There is no shortage of fun-filled activities in Vegas.

PURPOSE

Exploring parallelism and concurrency is an efficient way of sharing interconnected processing and data resources to speed up time critical computation, lower costs of design and production, increase profit, create a better business environment, and improve societal welfare. PDCS is an international conference series that focuses on the design, analysis, implementation, evaluation, and application of parallel and distributed processing architectures, networks, algorithms, software, and systems. The goal of PDCS is to bring together researchers, engineers, and practitioners from academia, industry and governments around the world to advance the theories and technologies of parallel and distributed computing and systems by sharing their ideas, results, insights, and experiences on these topics.

All papers submitted to this conference will be double-blind peer reviewed by at least two members of the International Program Committee and related technical committees. Acceptance will be based primarily on originality, significance, technical soundness, presentation, and references. The conference chair makes the final decision on the acceptance or rejection of the paper.

SCOPE

The topics of interest to be covered by PDCS 2012 include, but are not limited to:

DISTRIBUTED SOFTWARE SYSTEMS AND APPLICATIONS

- Applications
- Data Mining
- Distributed Agents
- Distributed Databases
- Distributed Image Processing
- Distributed Workflow Management
- Fault-Tolerant Systems
- Internet Tools
- Multimedia Systems
- Compilers and Run Time Support
- Data Warehousing
- Distributed Computing
- Distributed e-Commerce
- Distributed Shared Memory
- Embedded Systems
- Information Systems
- Knowledge-based Systems
- Object-Oriented Systems

- Operating Systems
- Parallel Data Structures
- Parallel Programming
- Real-Time Systems
- Software Reuse
- Web-based Systems
- Parallel and Distributed Compilers
- Parallel I/O Systems
- Power Aware Systems
- Software Development
- Software Tools

HIGH PERFORMANCE COMPUTING AND NETWORKING

- Broadband Networks
- Cluster Computing
- Grid Computing
- Home Networks
- Mobile Computing
- Network Interfaces
- Network Optimization
- Network Protocols
- Optical Networks
- Peer-to-peer Computing
- Supercomputing
- Web Computing
- Cloud Computing
- Computer and Communications Networks
- Heterogeneous Computing
- Interconnection Networks
- Modelling and Simulation
- Network Management
- Network Performance
- Network Security
- Parallel Computing
- Sensor Networks
- TCP/IP Networks
- Wireless Networks

PARALLEL ALGORITHMS AND ARCHITECTURES

- Algorithm Design
- Algorithms for Quality of Service
- Communication Algorithms
- Embedded Algorithms
- Load Balancing
- Modelling and Simulation
- Multicasting Algorithms
- Neural Networks
- Parallel and Distributed Algorithms
- Parallel VLSI Design
- Protocol Design
- Real-Time Scheduling
- Resource Allocation
- Task Scheduling
- Algorithms for Heterogeneous Systems
- Applications
- Computational Models
- Genetic Algorithms
- Message Routing
- Multicast Protocols
- Multicore Computing
- Optimization Algorithms
- Parallel Computer Architectures
- Power Aware Routing
- Randomized Algorithms
- Re-Configurable Architecture
- Security and Reliability
- Visualization Tools

SUBMISSION

Submit your paper via our website at: www.iasted.org/conferences/submit-789.html. All submissions should be in Adobe Acrobat (.PDF) format.

The IASTED Secretariat must receive your paper by **August 1, 2012**. Receipt of paper submission will be

confirmed by email.

Initial Paper Requirements

All papers submitted to IASTED conferences must be previously unpublished and may not be considered for publication elsewhere at any time during IASTED's review period. Authors are limited to a maximum of three paper submissions.

Initial paper submissions should be **full papers**. Papers of up to 8 pages in length are included in the conference registration fee. An extra charge will apply for every additional page for papers longer than 8 pages. Authors are responsible for having their papers checked for style and grammar before submitting to IASTED. Papers may be rejected if the language is not satisfactory.

When submitting a paper, complete the online initial paper submission form, designating an author who will attend the conference, and provide four key words to indicate the subject area of your paper. At least one of the key words must be taken from the list of topics provided under [Scope](#), above.

Formatting instructions for initial papers are available at www.iasted.org/formatting-initial-page.html.

Reviewing

All papers submitted to this conference will be double-blind peer reviewed by at least two members of the International Program Committee and related technical committees. Acceptance will be based primarily on originality, significance, technical soundness, presentation, and references. The conference chair makes the final decision on the acceptance or rejection of the paper.

Acceptance and Registration

Notification of acceptance will be sent via email by **September 1, 2012**. Final manuscripts are due by **September 24, 2012**. Registration and final payment are due by **October 1, 2012**. Late registration fees or paper submissions will result in the papers being excluded from the conference proceedings.

Only one paper of up to eight pages is included in the regular registration fee. There will be an added charge for extra pages and additional papers.

Final Paper Requirements

The final paper must be correctly formatted and submitted online at <http://pdfportal.iasted.org>.

The formatting instructions can be found at: www.iasted.org/formatting-final-page.html and must be strictly followed. The page limit for final papers is eight single-spaced pages in 10 point Times New Roman font.

TUTORIALS

Submission

Proposals for three-hour tutorials must be submitted online by **August 1, 2012**. Submit tutorial proposals via the following web site address:

www.iasted.org/conferences/tutorialsubmit-789.html.

Proposal Format

A tutorial proposal should clearly indicate:

- The topic.
- Background knowledge expected of the participants.
- Objectives.
- Time allocations for the major course topics.
- The qualifications of the instructor(s).

SPECIAL SESSION

Special session proposals must be emailed to calgary@iasted.org by **August 1, 2012**. Proposals should include a session title, a list of the topics covered, and the qualifications and brief biography of the session organizer(s).

Papers submitted to the special session must be received by **August 1, 2012**, unless otherwise stipulated by the Special Session Organizer. A minimum of five papers must be registered and fully paid in order for this session to be included in the conference program.

More information on special sessions is available at www.iasted.org/conferences/specialsession-789.html.

JOURNALS

All papers submitted to this conference will be considered for possible publication in the



[Parallel and Distributed Computing and Networks](http://www.actapress.com/ParallelandDistributedComputingandNetworks). For additional information about the submission of papers, please visit: www.actapress.com/SubmissionInfo.aspx.

INDEXING

The proceedings will be sent for indexing in the following:

- [EI Compendex](#)
- [Inspec](#)
- [Google Scholar](#)
- [Scopus](#)

IMPORTANT DEADLINES

Submissions Due	August 1, 2012
Notification of Acceptance	September 1, 2012
Final Manuscripts Due	September 24, 2012
Registration Deadline	October 1, 2012

Concurrent Conferences

PDCS 2012 will be held in conjunction with the IASTED International Conferences on:

- [Power and Energy Systems and Applications \(PESA 2012\)](#)
- [Software Engineering and Applications \(SEA 2012\)](#)

CONTACT US

For more information, or to be placed on our mailing list, please contact:

IASTED Secretariat – PDCS 2012
B6, Suite 101, Dieppe Avenue SW
Calgary, AB, Canada T3E 7J9
Tel: +1 403-288-1195
Fax: +1 403-247-6851
Email: calgary@iasted.org
Web site: www.iasted.org