Call for PAPER
PDGC 2012-The Second IEEE International Conference on Parallel, Distributed and Grid Computing

December 6-8, 2012
Jaypee University of Information Technology (http://www.juit.ac.in/),
P.O. Waknaghat, via Kandaghat, Solan-173234, Himachal Pradesh, INDIA
http://www.juit.ac.in/pdgc-2012/index1.php

The Second IEEE International Conference on Parallel, Distributed and Grid Computing (PDGC-2012) will be organized at Jaypee University of Information Technology, Waknaghat, Solan, Himachal Pradesh, India. PDGC-2012 will serve as an international forum for researchers and practitioners interested in recent advances in the areas of parallel, distributed and grid computing. It will provide an opportunity to present and exchange advanced scientific and technological information in hardware, software and theoretical foundation in these areas. The conference is technically sponsored by IEEE Delhi Section Computer Society Chapter and the proceedings will be published in IEEE xplore.

Topics of interest include but are not limited to:

- **Distributed Systems:** Distributed Algorithms, Distributed Databases, Heterogeneous Distributed Systems, Distributed Shared Memory Systems, Virtual Memory, Distributed Object-oriented Systems, AI in Distributed Systems, Real Time Distributed Systems.
- **Parallel Computer Systems:** Parallel Algorithms, Algorithms Exploiting Clusters and General-Purpose Distributed and Parallel Systems, Hybrid & Embedded Parallel Systems, Memory Organization, Support for Parallel I/O, Multi/Many Core Systems, GPU and FPGA based Parallel Systems.
- **Networks and Interconnection Networks:** Scalable Networks, Reconfigurable Networks, Routing Issues, General-Purpose Network Performance for Distributed Applications, Network Protocols, Internet Technology, Optical Interconnections and Computing, Novel Network Topologies.
- **Network-based Computing:** Web Computing, Cluster Computing, Cloud Computing, Computational Grids, Data Grids, Semantic Grid, Mobile Agents, Distributed Web Services.
- **Dependable Computing and Systems:** Fault-tolerance, Self-stabilization, Performance Prediction and Analysis, Simulation, Knowledge-based Program Development.
- **Cluster and Grid Computing:** Collaboration Technologies, Communication and Networking Systems, Data Analysis and Management on Grids, Data Grids, Grid Computing Infrastructures, Middleware and Tools, Grid Computing Services, Grid Infrastructures for Data Analysis, Grid Standards as related to Applications.
- **Cloud Computing:** Actor Model, Cluster Manager, Redundant Array of Inexpensive Servers, Utility computing, Virtual Private Cloud.
- **Multimedia and Service Networking:** Multimedia Communications and Services, Real-time Networking, Performance Modeling, Networked Real-time Embedded Systems, Services on-Demand, Network Management, Multimedia Architectures and Protocols, Multimedia Applications, Quality of Service Support, Operating System and Networking Support, Internet Tools and Applications, Audio/Video Delivery over the Internet.
- **Peer-to-Peer Computing:** Performance Modeling and Evaluation, Power-aware Computing, Real-Time and Multimedia Systems, Resource Management and Scheduling.
- **Security and Privacy:** Security in Computational and Data Grids, Security in Distributed Environments, Configuration, Policy, Management Issues.
- **Petri Nets:** Theory, Analysis, Tools and Applications.
- **Software Tools and Environments for Parallel and Distributed Platforms:** Operating Systems, Compilers, Languages, Debuggers, Monitoring Tools, Software Engineering on Parallel/Distributed Systems.
- **Related Fields:** Web-based Computing and Service-Oriented Architecture, Wireless and Mobile Computing, Algorithms Design and Analysis, Artificial Intelligence, Computer Vision, Neural Networks and Fuzzy Logic, Biologically Inspired Computing, Systems Biology, Cyber-Physical Systems, Wireless Sensor Networks, Remote Sensing, Social Networks (Social Media), Human Computer Interaction, Graph Embedding, Computer Graphics and Virtual Reality, Nanotechnology in High Performance Computing.

PUBLISHER: IEEE

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PAPER SUBMISSION

Authors are invited to submit full papers in English of not more than 6 pages (including figures, tables & references) in IEEE double-column format. Submissions must present original work that has not been previously published, and is not under submission elsewhere. All articles will be reviewed for scientific quality by the Technical Program Committee and external reviewers. Submissions should use the general IEEE template with the minimum font size of 10 points. All papers must include a title, complete contact information for all authors, and keywords on the cover page. The corresponding author should be identified clearly. Papers must be submitted electronically (in PDF format) via on-line submission using the EDAS system at the following link: http://edas.info/newPaper.php?c=11771. If you encounter problems in submitting the papers through our EDAS conference paper submission system, forward your paper at pdgc2012@gmail.com

SPECIAL ISSUE: The Best 4-6 Selected Papers from PDGC 2012 will be published in the Special Issue of **International Journal of Parallel, Emergent and Distributed Systems** (IJPEDS-http://www.tandf.co.uk/journals/titles/17445760.asp), Taylor and Francis.

IMPORTANT DEADLINES
Paper Submission: August 15, 2012
Acceptance Notification: September 15, 2012
Camera Ready Manuscript: October 15, 2012
Conference Registration: October 01, 2012

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ACCOMMODATION: Free for the Conference Participants.

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