

# The 24<sup>th</sup> International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT'23)

18 August, 2023 – Jeju, Ko

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The International Conference on Parallel and Distributed Computing, Applications and Technologies (PDCAT) is a major forum for scientists, engineers, and practitioners throughout the world to present the latest research, results, ideas, developments and applications in all areas of parallel and distributed computing. Started in Hong Kong in 2000, PDCAT 2023 will be held in Jeju, Korea, after 23 years of success in countries/regions including Taiwan, Japan, China, Korea, Singapore, Australia and New Zealand across Asia-Oceania. We are inviting new and unpublished papers on, but not limited to, the following topics:

2. Software Systems and Technologies:
Task mapping and job scheduling Formal methods and programming

languages
Internet computing
Image processing and computer vision
Agent technologies
Operating systems
Software tools and environments

Parallelizing compilers Web services Component-based and OO Technology Simulation and Visualization

#### 1. Networking and Architectures:

Interconnection networks Parallel/distributed architectures Heterogeneous and multimedia Systems ATM networks

Reliability, and fault-tolerance Ubiquitous computing systems

Computer networks

Communication and telecommunication Wireless networks and mobile computing

Internet of Things Optical networks

Cloud/Grid computing systems

Edge computing

Reconfigurable architecture

# 3. Algorithms and Applications:

Parallel/distributed algorithms Big data computing and analysis Distributed data and knowledge based systems

Image processing and computer graphics High-performance scientific computing Reconfigurable high-performance computing

Resource allocation and management Network routing and communication algorithms

Bioinformatics

Database applications and data mining Intelligent computing and neural networks

Machine learning

Artificial intelligence based algorithms

## 4. Security and Privacy:

Access control and authorization Authentication, biometrics, smartcards Distributed systems security Mobile code and mobile agent security RFID applications Privacy preserving computation Applied cryptography Database security

Intrusion detection and survivability P2P & ad hoc networks

Cloud security Security protocols

#### PAPER SUBMISSION GUIDELINE:

Papers reporting original and unpublished research results and experience are solicited. Papers will be selected based on their originality, timeliness, are solicited. Papers will be selected based on their originality, timeliness, significance, relevance, and clarity of presentation. Accepted and presented papers will be published in the conference proceedings. Papers must be written in English and submitted electronically as a PDF/Word file at <a href="http://www.pdcat.org/">http://www.pdcat.org/</a>. Submissions should be made in IEEE conference proceedings format, and must not exceed 6 pages in length. Conference proceedings is planned to be published by IEEE Computer Society. Extended versions of selected papers will be published in special issues of some SCI-indexed international journals:

Human-Centric and Information Sciences (HCIS)-KIPS, (SCIE, IF 6.558), Symmetry - MDPI (SCIE, IF 2.713), Journal of Internet Technology - National Dong Wha Univ(SCIE, IF 1.140), Journal of Information Processing Systems (JIPS)- KIPS (SCOPUS), etc.









## **IMPORTANT DATES:**

Paper submission deadline: May 22, 2023 Author notification: May 29, 2023 Camera-ready version due: June 5, 2023 Conference: August 16-18, 2023

#### **ABOUT JEJU:**

Jeju Island is the central city of Jeju Free International City, which boasts one of the world's 7 natural wonders, and is a city of traditional culture with a thousand-year history and unique culture. On December 16, 2002, UNESCO recognized the ecological value of climate and biodiversity and designated Jeju Island as a Biosphere Reserve. In addition to Gapado, Hallasan, Seongsan Ilchulbong, and Geomunoreum lava tube systems were recognized for their academic, cultural, tourism, and ecological value and importance, and in June 2007, Jeju Volcanic Island and Lava Tubes were registered as World Natural Heritage. On October 3, 2010, the UNESCO Global Geoparks Network (GGN) certified Jeju Island as a Global Geopark.







## **CONTACT US:**

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