



Full Paper Submission: **deadline expired**

Position papers (work in progress): **deadline expired**

Author Notification: **23th December 2003**

Final Camera-Ready Submission and Registration: **25th January 2004**

6th International Conference on Enterprise Information Systems

Call for Papers

ICEIS 2004 will be hosted by Universidade Portucalense - Porto (Portugal), in collaboration with INSTICC.

SCOPE

The purpose of the 6th International Conference on Enterprise Information Systems (ICEIS) is to bring together researchers, engineers and practitioners interested in the advances and business applications of information systems. Five simultaneous tracks will be held, covering different aspects of Enterprise Information Systems Applications, including Enterprise Database Technology, Systems Integration, Artificial Intelligence, Decision Support Systems, Information Systems Analysis and Specification, Internet Computing, Electronic Commerce and Human Factors.

ICEIS focuses on real world applications; therefore authors should highlight the benefits of Information Technology for industry and services. Ideas on how to solve business problems, using IT, will arise from the conference. Papers describing advanced prototypes, systems, tools and techniques and general survey papers indicating future directions are also encouraged. Papers describing original work are invited in any of the areas listed below. Accepted papers, presented at the conference by one of the authors, will be published in the Proceedings of ICEIS. Acceptance will be based on quality, relevance and originality. Both full research reports and work-in-progress reports are welcome. There will be both oral and poster sessions.

Special sessions, dedicated to case-studies and commercial presentations, as well as tutorials dedicated to technical/scientific topics are also envisaged: companies interested in presenting their products/methodologies or researchers interested in holding a tutorial are invited to contact the conference secretariat. Information concerning the previous ICEIS editions (ICEIS'99, ICEIS 2000, ICEIS 2001, ICEIS 2002 and ICEIS 2003) can be found at <http://www.iceis.org>.

TOPIC AREAS / CONFERENCE TRACKS

Each of these topic areas is expanded below but the sub-topics list is not exhaustive. Papers may address one or more of the listed sub-topics, although authors should not feel limited by them. Unlisted but related sub-topics are also acceptable, provided they fit in one of the following main topic areas:

1. Databases and Information Systems Integration
2. Artificial Intelligence and Decision Support Systems
3. Information Systems Analysis and Specification
4. Software Agents and Internet Computing
5. Human-Computer Interaction

AREA 1: Databases and Information Systems Integration

- Coupling and Integrating Heterogeneous Data Sources
- Enterprise Resource Planning
- Middleware Integration
- Legacy Systems
- Organisational Issues on Systems Integration
- Distributed Database Applications
- Object-Oriented Database Systems
- Enterprise-Wide Client-Server Architecture
- Database Security and Transaction Support
- Data Warehouses
- Multimedia Database Applications
- Web Databases
- Mobile Databases
- Software Engineering
- Software Measurement

AREA 2: Artificial Intelligence and Decision Support Systems

- Intelligent Agents
- Industrial Applications of Artificial Intelligence
- Strategic Decision Support Systems
- Group Decision Support Systems
- Applications of Expert Systems
- Advanced Applications of Fuzzy Logic
- Advanced Applications of Neural Network
- Natural Language Interfaces to Intelligent Systems
- Bayesian Networks
- Evolutionary Programming
- Coordination in Multi-Agent Systems
- Intelligent Social Agents and Distributed Artificial Intelligence Applications
- Intelligent Tutoring Systems
- Datamining
- Case-Based Reasoning Systems
- Knowledge-based Systems Engineering
- Knowledge Management

AREA 3: Information Systems Analysis and Specification

- Systems Engineering Methodologies
- Information Engineering Methodologies
- Organisational Semiotics
- Semiotics in Computing
- Requirements Analysis
- Ontology Engineering

- Modelling Formalisms, Languages, and Notations (e.g. UML, ER variants)
- CASE Tools for System Development
- Modelling of Distributed Systems
- Modelling Concepts and Information Integration Tools
- Business Processes Re-engineering
- Security, Freedom and Privacy

AREA 4: Software Agents and Internet Computing

- B2B and B2C Applications
- Process Design and Organisational Issues in e-Commerce
- E-Procurement and Web-based supply chain management
- Market-spaces: market portals, hubs, auctions
- E-Learning and e-Teaching
- Intranet and Extranet Business Applications
- Agents for Internet Computing
- Web Information Agents
- Case studies on Electronic Commerce
- Public sector applications of e-Commerce
- Interactive and Multimedia Web Applications
- Network Implementation Choices
- Object Orientation in Internet and Distributed Computing
- Internet and Collaborative Computing
- Semantic Web Technologies
- Wireless and Mobile Computing
- Agent-Oriented Programming

AREA 5: Human-Computer Interaction

- HCI on Enterprise Information Systems
- Functional and non-functional Requirements
- Internet HCI: Web Interfaces and Usability
- Design Methodology and Cognitive Factors in Design
- Multimedia Systems
- Machine perception: vision, speech, other
- Virtual Reality and Augmented Reality
- Intelligent User Interfaces
- User Needs
- Human Factors
- Accessibility to Disabled Users
- Geographical Information Systems
- E-Learning
- Computer Art

WORKSHOPS

- Pattern Recognition in Information Systems
- New Developments in Digital Libraries
- Wireless Information Systems
- Verification and Validation of Enterprise Information Systems
- Software Audit and Metrics

- Natural Language Understanding and Cognitive Science
- Business Information Technology Ethics
- Ubiquitous Computing
- Security In Information Systems
- Computer Supported Activity Coordination
- Web Services: Modeling, Architecture and Infrastructure
- Tele-Care and Collaborative Virtual Communities in Elderly Care

KEYNOTE SPEAKERS

Kalle Lyytinen, Case Western Reserve University, USA

Thomas Greene, MIT, USA

Tom Gilb, Norway

Leszek Maciaszek, Macquarie University, Australia

Peri Loucopoulos, UMIST, UK

Jim Coplien, University of Manchester Institute of Science and Technology, UK

TUTORIALS

Tom Gilb, Norway

Juan Carlos Augusto, University of Ulster at Jordanstown, Northern Ireland

Balbir S. Barn, Thames Valley University, UK

SUBMISSION OF PAPERS

Authors should submit a paper in English of about 8 A4 pages, up to 5.000 words, using the paper format indicated below. The program committee will review all papers and the contact author of each paper will be notified of the result, by email. Each paper should clearly indicate the nature of its technical/scientific contribution, and the problems, domains or environments to which it is applicable. Authors must also indicate the conference track to which the paper is submitted. The paper must be carefully checked for correct grammar and spelling.

Authors should use the ICEIS web-based submission facility available at the conference web site, to enter the contact information of all paper authors plus the file containing the paper. The facility will automatically send a submission acknowledgement, by email, to the author indicated as "contact author".

A "blind" paper evaluation method will be used. To facilitate that, the authors are kindly requested to produce and provide the full paper, WITHOUT any reference to the authors. The manuscript must contain, in its first page, the paper title, an abstract and a list of keywords but NO NAMES OR CONTACT DETAILS WHATSOEVER are to be included in any part of this file.

If the author is unable to use the web-based procedure then he/she can send the paper by email to the **secretariat** attaching a second file containing: the title, author(s), affiliation(s), contact details, a list of keywords and an abstract.

The camera-ready format should be strictly used for all submitted papers. Please check and carefully follow the **instructions and templates provided**.

Due to space limitations in the Proceedings, the camera-ready version will be limited to 8 (eight) pages for full papers, 6 (six) for short papers (progress reports) and 4 (four) for poster presentations. If absolutely needed, it will be allowed to increase the total number of pages, by 4 extra pages. However, for each excess page the author will have to pay an additional fee.

IMPORTANT DEADLINES

Full Paper Submission: **deadline expired**

Position papers (work in progress): **deadline expired**

Author Notification: 23th December 2003

Workshops Submission: 15th January 2004

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VENUE

Porto, located on the banks of the river Douro, is one of the oldest cities in Europe. With a population of about 300.000, it is the country's second most important city in terms of economic output and cultural influence. Porto made its name over two centuries ago because of its connection with the Porto wine industry. It was elected as "Porto 2001: European Capital of Culture" and recently designated by UNESCO as a World Heritage City, a fitting recognition not only for its granite sculpted beauty, but also for the unforgettable panorama of its historic centre with narrow streets and typical houses arrayed like a cascade right down to the river, and for its passionate history which determined the country's destiny. The city's symbols are the "Rabelo" boat, which can still be found docked on the banks of the river, the baroque Clérigos Tower (built by the Italian architect Nicolau Nasoni) and the century-old iron bridges, one of them designed by Gustave Eiffel. Porto is also at the heart of a knowledge and business intensive region, offering several universities and research institutes, which stimulate a strong connection with industry, the service sector and IT enterprises.

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