

Call for papers

The 6th IEEE International Conference on e-Learning in Industrial Electronics (ICELIE 2012)

ICELIE' 2012
25-28 October 2012
ÉTS Montréal, Québec, Canada

Sponsored by: IEEE Industrial Electronics Society
Technically Co-Sponsored by: IEEE Education Society

The purpose of the 6th IEEE International Conference on E-Learning in Industrial Electronics (ICELIE'2012) is to provide a forum for presentation and discussion of modern education and electronic learning methods for teaching in the field of industrial electronics. ICELIE'2012 will be co-located with IECON'2012, the flagship conference of the IEEE Industrial Electronics Society. These two conferences will hold concurrent sessions and joint activities, but each conference will publish its own proceedings.

Participants can enjoy both ICELIE and IECON conferences and receive both conference proceedings for a *single registration* fee

The conference will cover eLeaning aspects in teaching Industrial Electronics–related disciplines such as:

- Power Electronics & Renewable Energy
- Signal and Image Processing & Computational Intelligence
- Electrical Machines & Drives
- Control Systems & Applications
- Mechatronics & Robotics
- Sensors, Actuators & Systems Integration
- Factory Automation & Industrial Informatics

The topics of IEEE-ICELIE 2012 that will be addressed in this conference will include, but are not limited to:

eLearning-oriented devices and networks: Mobility (IEEE 802.11 standards, engineering, smart devices); Mobile communications; Hardware/software systems for mobile communications; Evolution from 3G to 4G and beyond; Mobile networking; Wireless networking; Wireless access (WPAN, WLAN, WLL); Mobile IP, VoIP, IPTV; Satellite technologies for eLearning; Next generation of mobile technology; User-oriented device interfaces; Adaptable student/device interaction; Wearable devices

eLearning-oriented technologies: Architecture of eLearning technology systems; Informal learning; Formal/informal; exploratory and serendipitous learning; Advanced uses of multimedia and hypermedia; Integrated learning and educational environments; Remote and wireless teaching technologies; Anytime/anywhere eLearning and wearable network devices; Adaptive eLearning and intelligent applications/tools; Agents technology; Intelligent tutoring systems; Training eLearning teachers; Practical uses of authoring tools; Application of metadata and virtual reality.

Tools and platforms: eLearning tools (basic infrastructure, content management, cross-media publishing, cooperative learning, lecture recording); Tools and architectures for mobile/ubiquitous eLearning; Web 2.0 and social computing for learning; Ontologies and semantic Web standards for eLearning; Adaptive and personalized educational hypermedia; Peer-to-Peer learning applications; Social software for collaborative learning; e-Learning platforms, portals and virtual learning environments; Embedded systems education; Multimedia environment for teaching; Web-based learning, including Wikis and Blogs; Learning content management systems.

On-line learning: Content engineering (authoring, standards, metadata, process models); Internet based systems; Navigational aspects for on-line learning; Virtual spaces for learning communities; Internet supported ubiquitous learning; Mobile e-Learning applications; Pervasive e-Learning scenarios; Multi-agent technology applications in Web-based education; Semantic social networks; Community discovering in social learning systems; Social structure exploitation in e-learning.

Mobile learning, teaching, and training: Advanced teaching and learning technologies for mobile learners; Advanced software and hardware systems for mobile learning and teaching; Virtual mobile learning environments; Adaptive learning strategies; Advanced curriculum and courseware for mobile learning and training; Security issues of mobile learning; Learning management systems for mobile learning; Ontologies and pedagogical models; Testing, assessment and quality issues of mobile learning; Infrastructure, administrative and organizational issue of mobile learning; Applications of mobile technology in open, distance and corporate education; strategies and policies on mobile learning

Hybrid learning: Didactics of eLearning (informal learning, ambient and augmented learning, cooperative learning); Teacher-centric and student-centric approaches; Self-learning integrated methodology; Learner autonomy; Interactive hybrid learning; Assessment strategy for hybrid learning; Collaborative learning/groupware; Content management for hybrid learning; Digital libraries for eLearning; Effective content development experiences in hybrid learning; Improved flexibility of learning process. Institutional policies; Instructional design issues; Organizational framework for hybrid learning; Outcome based teaching and learning; Pedagogical issues.

Challenging technical aspects: Remote laboratories case studies; Simulation/emulation versus physical experimentation within Remote versus Local laboratories ; Technologies used to create new e-Learning virtual & remote laboratories integrated in the eLearning and distance learning environments Tutoring eLearning applications and services; Teaching eLearning methodologies and technologies; National and international projects on eLearning; eLearning industry and universities programs; Application of instructional design theories; eLearning software and hardware; Social impact metrics on distance learning; Methodologies and processes for education; Curriculum projects and experiences; Educating the educators; Simulated communities; Online mentoring; Cultural, social, and gender issues; Personalization; Corporate training.

Assessing eLearning: Organization of eLearning (quality management, learning networks); Cost models for eLearning; E-market place for higher education; Evaluation of eLearning; Social benefits of eLearning; eLearning effectiveness and outcomes; Global trends in eLearning.

ICELIE'2012: 25 - 28 October 2012

Exhibition: An exhibition of selected works in the area of e-learning in Industrial Electronics will be organized within ICELIE. A diploma will be awarded to the best e-learning solutions presented. Detailed information about submission of works to the Exhibition is available at: http://www.icelie2012.org







Working Language

English is the working language of both ICELIE and IECON. Full papers are to be submitted electronically, with file size limited to 2 MB. Accepted and presented papers will be published in the respective conference proceedings, and included in the IEEE Xplore® online digital library. Detailed information about manuscript formatting and submission is available at: http://www.iecon2012.org

(it should be noted that IECON and ICELIE have separate submission systems)

Accepted papers will be published in an IEEE Proceedings volume and will be included in IEEE Xplorer and indexed by EI Compendex.

In addition, authors are encouraged to submit their papers for publication in the IEEE Transactions on Industrial Electronics, the IEEE Transactions on Industrial Informatics or the IEEE Transactions on education

For additional information please visit:
http://www.icelie2012.org

IMPORTANT 2012 DEADLINES

Contributed papers:	21 May 2012
Exhibition proposals:	7 June 2012
Tutorials proposals:	10 May 2012
Special Sessions proposals:	10 May 2012
Notification of acceptance:	1 July 2012
Final submission due:	15 August 2012
Early registration closes:	15 August 2012

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