ICBL 2020 – Call for Papers
October 14th – 16th; 2020; McMaster University, Hamilton, Canada

9th International Conference on Interactive, Collaborative, and Blended Learning: Visions and Concepts for Education 4.0

The ICBL is a bi-annual conference of the International Association of Online Engineering (IAOE).

ICBL 2020 is the 9th in a series of bi-annual events concerning the fundamentals; applications and experiences in the field of Blended Learning and related new technologies including:

- General Topics in Interactive, Collaborative, and Blended Learning
- Computer Supported Collaborative Learning
- Education 4.0
- Pedagogical and Psychological Issues
- Real World Experiences

Another objective of the conference is to discuss guidelines and new concepts for engineering education in higher and vocational education institutions including emerging technologies in learning; MOOCs and Open Resources. ICBL2020 will offer an exciting technical program as well as networking opportunities.

Pre-conference
The program for Wednesday October 14th includes tutorials presented by academics and industry. A social program is planned for Saturday 17th. This will enable ample opportunities to learn more about the ICBL community.

Other opportunities to participate
Posters / thematic workshops / tutorials / technical sessions; as well as interactive demonstrations and exhibitions; may also be proposed. Prospective organizers of other ICBL2020 events are encouraged to contact the conference chair.

Important Dates

<table>
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<tr>
<th>Date</th>
<th>Event</th>
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<tr>
<td>13 Apr 2020</td>
<td>Submission of structured abstracts for full and short papers; Submission of proposals for special sessions</td>
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<tr>
<td>23 Apr 2020</td>
<td>Invitation to submit a full paper or short paper</td>
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<td>31 May 2020</td>
<td>Submission deadline for complete full and short papers and all other submissions (Special sessions papers; Work in progress; Demos; Poster; Tutorials; Workshops)</td>
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<tr>
<td>22 Jun 2020</td>
<td>Notification of acceptance</td>
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<td>20 Jul 2020</td>
<td>Camera-ready due and author registration</td>
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<td>14 Oct 2020</td>
<td>Conference opening</td>
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Steering Committee Chair
Michael E. Auer; IAOE President & CEO

ICBL2020 Chairs
Dan Centrea, Canada
Andreas Pester, Egypt
Christian Guett, Austria

Program Chairs
Kostas Apostolou, Canada
Seshasai Srinivasan, Canada

Topics of Interest (but not limited to)

General Topics in Interactive, Collaborative, and Blended Learning
Collaborative learning environments; Adaptive and intuitive environments; Mobile learning environments and applications; Learning analytics; Ontologies and e-Learning; New learning models and applications.

Technology Based Collaborative Learning
Immersive environments and Virtual Reality in Education; Cloud-Based systems; Mobile Learning (M-learning); Integrating smart devices as collaborative learning tools; Virtual and online labs and virtual classrooms; Net-based learning; MOOCs and MOOLs.

Education 4.0:
Aligning Education 4.0 with Industry 4.0; Micro-credentials; digital credentials; AI-led teaching; AI, big data and IoT in education; Learning analytics; Competency-based education; Disruptive technologies and skill sets; Virtual assistants; Accessible learning; Remote learning; Lifelong learning; Personalized learning.

Innovation and Issues in Education:
Innovative research in pedagogy; Collaborative learning pedagogical approaches and methods; Advanced evaluation and assessment methods; Blended learning; E-mentoring and e-tutoring; Project-based learning; Problem-based learning; Integration of social networking and social computing in education; Critical success factors in distance and online learning; Novel interdisciplinary programs and approaches; Cognitive science and education; Psychology of learning; Psychological issues in education.

Real World Experiences:
E-learning success stories and case studies; Practical experiences in Blended Learning; Practices in Borderless Education.

Review / Proceedings
All submissions are subject to a double-blind reviewing process. All accepted submissions will be published as ICBL2020 Proceedings in Springer ‘Advances in Intelligent Systems and Computing’.

More Information: www.icbl-conference.org
info@icbl-conference.org