# International Workshop on Adaptive Cyber Learning 2020 (ACL 2020)

## Calgary, Alberta, Canada,
## June 22-26, 2020

**Conference Co- Chairs**

Wu-Yuin Hwang, National Central University, Taiwan
Oscar Lin, Athabasca University, Canada
George Ghinea, Brunel University, London, UK

**Program Co-Chairs**

Ali Dewan, Athabasca University, Canada
Rustam Shadiev, Nanjing Normal University, China
Jun-Ming Su, National University of Taiwan, Taiwan

**Publicity Chairs**

Hongxin Yan, Athabasca University, Canada
Saranya Saetang, Kasetsart University, Thailand
Somchoke Ruengittinun, Kasetsart University, Thailand
Tosh Yamamoto, Kansai University, Japan

**Technical Program Committee**

(to be added)

**Advisory Committee**

(to be added)

The first International Workshop on Adaptive Cyber Learning (ACL 2020) will be held in Calgary, Alberta, Canada and co-located with IEEE Cyber Science and Technology Congress 2020 (www.cyber-science.org). ACL 2020 is an international major forum for researchers and practitioners in educational technologies to share and exchange experiences in the emerging research area of advanced e-learning.

Cyberlearning uses technology tools which actually carry out and facilitate learning experiences that would otherwise be impossible without the technology itself. Adaptive learning systems customize pedagogy and learning experiences according to the needs of a learner. Nowadays, cyberlearning increasingly seeks to offer personalized learning experiences via adaptive learning. Cyber learning research is design research. We believe that a good way to explore how people learn is by designing innovative technologies that incorporate findings from the learning sciences, AI, machine learning, and experimenting with those designs in real-world settings.

The workshop of this year will focus on cyberlearning that facilitates healthy, happy, and fun learning in authentic learning environments or ecosystems with wearable devices, IOT, cloud service, deep learning or other advanced pedagogical and technological tools. Therefore, ACL 2020 encourages experts to exchange novel and imaginative ideas to explore and meet the needs of these above-mentioned rapidly expanding and exciting fields of research.

The proceedings will be published by IEEE and best papers will be recommended for publication in special issues of leading international journals. The topics of interests include but not limit to the following:

Smart edutainment technologies
Neural science and technologies for learning
Context-based and ubiquitous learning
Social learning technologies/services
Simulation/Animation and computer vision
Cloud based technologies for learning Virtual Reality/Augmented Reality in education
Authentic Edutainment theory and design
Pedagogical issue for interaction design
Business/Management/Marketing Education
Remote scientific labs
Virtual peers and coaches
Collaborative learning with touch interfaces
Digital performance spaces
Expressive construction
Multimodal analysis
Analytics for assessment
Learner- and community- centered design

Wearable technology for learning/interaction
Affective learning
Robots for learning/interaction
Algorithms for adaptive learning
Sensor technologies for
    learning/interaction
Open Educational Resources
Smart learning environments
Game-based learning
Pedagogical models for collaboration
Knowledge management/Creation

**IMPORTANTDATES**
**Paper Submission due:  March 10, 2020**
**Author Notification:      April 1, 2020**
**Final Manuscript Due:   May 10, 2020**
**Early Registration Due: May 10, 2020**

**MANUSCRIPT FORMAT**
The Workshop paper should be 4-6 pages, following the same Paper Submission Guidelines  as the main congress papers (http://cyber-science.org/2020/).

**SUBMISSION DETAILS**
Submissions should represent original and substantive research results. We will not accept any paper which, at the time of submission, is under review for or has already been published (or accepted) for publication in another conference or journal. All papers will be refereed by at least two members of the technical program committee. Submitted papers will be carefully evaluated based on originality, significance, technical soundness, and clarity of exposition. Authors should submit their manuscripts in PDF format through the congress website (http://cyber-science.org/2020/). If authors have any queries on submissions, please contact Dr. Ali Dewan (adewan@athabascau.ca), Dr. Rustam Shadiev (rustamsh@gmail.com), Dr. Wu-Yuin Hwang (wyhwang@cc.ncu.edu.tw) or Dr. Oscar Lin (oscarl@athabascau.ca).