21st International Conference on Advanced Learning Technologies (ICALT 2021)

Opening Ceremony
21st International Conference on Advanced Learning Technologies (ICALT 2021)

Conference Founder

KINSHUK, University of North Texas, USA
21st International Conference on Advanced Learning Technologies (ICALT 2021)

General Conference Chair
Nian-Shing CHEN, National Yunlin University of Science and Technology, Taiwan
21st International Conference on Advanced Learning Technologies (ICALT 2021)

Report from General Program Chairs
ICALT 2021

☐ Conference Founder
  ▪ KINSHUK, University of North Texas, USA

☐ General Chairs
  (all names listed in alphabetical order based on their last names)
  ▪ Nian-Shing CHEN, National Yunlin University of Science and Technology, Taiwan
  ▪ Demetrios G SAMPSON, University of Piraeus, Greece and Curtin University, Australia

☐ General Program Chairs
  (all names listed in alphabetical order based on their last names)
  ▪ Maiga CHANG, Athabasca University, Canada
  ▪ Ahmed TLILI, Beijing Normal University, China

☐ Finance Chair
  ▪ Rita KUO, New Mexico Institute of Mining and Technology, USA
13 Tracks and Doctoral Consortium

- Track 1. Technologies for Open Learning and Education
  - Diana ANDONE, Politehnica University of Timisoara, Romania [Coordinator]

  - Elvira POPESCU, University of Craiova, Romania [Coordinator]

- Track 3. Wireless, Mobile, Pervasive and Ubiquitous Technologies for Learning
  - Phillip BENACHOUR, Lancaster University, UK [Coordinator]

- Track 4. Digital Game and Intelligent Toy Enhanced Learning
  - Maiga CHANG, Athabasca University, Canada [Coordinator]

- Track 5. Computer Supported Collaborative Learning
  - Andreas LINGNAU, Ruhr West University of Applied Sciences, Germany [Coordinator]

- Track 6. Big Data in Education and Learning Analytics
  - Xiao HU, The University of Hong Kong, Hong Kong [Coordinator]

- Track 7. Technology-Enhanced Science, Technology, Engineering and Math Education
  - Rita KUO, New Mexico Institute of Mining and Technology, USA [Coordinator]

- Track 8. Technology Enhanced Language Learning
  - Sridhar CHIMALAKONDA, Indian Institute of Technology Tirupati, India [Coordinator]
  - Wen-Chi Vivian WU, Asia University, Taiwan [Coordinator]
13 Tracks and Doctoral Consortium

  - Chandan DASGUPTA, Indian Institute of Technology Bombay, India [Coordinator]
- Track 10. Technology Supported Education for People with Disabilities
  - Charalampos KARAGIANNIDIS, University of Thessaly, Greece [Coordinator]
- Track 11. Artificial Intelligence and Smart Learning Environments
  - Nian-Shing CHEN, National Yunlin University of Science and Technology, Taiwan [Coordinator]
- Track 12. Augmented Reality and Virtual Worlds in Education and Training
  - Tassos A. MIKROPOULOS, University of Ioannina, Greece [Coordinator]
- Track 13. Motivational and Affective Aspects in Technology-enhanced Learning
  - Charles HODGES, Georgia Southern University, USA [coordinator]
- Doctoral Consortium
  - Maria Jesus RODRIGUEZ-TRIANA
  - Tallinn University, Estonia
## Track Program Committee Members

- **403 TPC Members** (compared to 2020’s 420 & 2019’s 399)
- **44 Countries** (compared to 2020’s 47 and 2019’s 48)

<table>
<thead>
<tr>
<th>Country</th>
<th>Reviewer</th>
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Submission Stats

- 221 submissions (compared to 2020’s 171 and 2019’s 248)
- from 43 countries (compared 2020’s 40 and 2019’s 35)

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Statistics
## Submission Stats

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Reviewing and Decision Making Process

- Preliminary Scan
  - Paper format should follow template provided
    - Manuscript won’t have too much content and have consistent outlook
    - Avoid different style and format differences distract reviewers
    - Make sure that reviewers focus on paper content
  - Ready for double blind reviewing

- Manuscripts don’t pass preliminary scan
  - Track program chairs contact through submission system and email, program chairs contact through submission system and follow-up emails

- Pre-screen (early rejection) – the paper doesn’t fit into any of the conference scope

- Passed preliminary scan, pre-screen and entered into peer reviewing stage

- Each submission is averagely reviewed by 3.4 Track Program Committee members
  - Track program chairs conducted meta-reviews for each submission based on
    - Manuscript and reviews

- Decision made
- Final decision made

- IEEE CrossCheck on the final proceeding files (IEEE’s policy)
## Acceptance Stats

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<tr>
<th>Location</th>
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Keynote Speech

- Stealth assessment — What, why and how?
  - Valerie SHUTE, Florida State University, USA
  - Session 1-4A (Monday, TODAY)
    - 2021-07-12 16:00 to 2021-07-12 17:00 (in GMT)

- Implementing Learning Analytics for Adaptive Learning in Schools
  - Barbara WASSON, University of Bergen, Norway
  - Session 3-2ª (Wednesday)
    - 2021-07-14 11:00 to 2021-07-14 12:00 (in GMT)

- Finding tools to improve student learning in unexpected places
  - David WILEY, Lumen Learning, USA
  - Session 2-2A (Tuesday)
    - 2021-07-13 11:00 to 2021-07-13 12:00 (in GMT)
Features

- Doctoral Consortium

- IEEE TCLT Annual Report *(TODAY, just after Open Ceremony)*
  - Open to everyone, everyone is welcome
  - General meeting of the IEEE TCLT
  - Introduces TCLT's activities and opportunities for everyone!
  - Join IEEE TCLT as participating members for FREE

- Women in Engineering Panel (on Tuesday)
  - open to & **strongly** encourage everyone attend

- Future Collaboration Panel (on Thursday)
  - just before
    - the **Best Paper Awards** Announcement & **Close Ceremony**
  - open to & encourage everyone attend
Women in Engineering Panel

- Session 2-5A (Tuesday, TOMORROW)
  - 2021-07-13 16:00 to 2021-07-13 17:00 (in GMT)
- Open to & strongly encourage everyone attend
- Chaired by
  - Rita KUO
    - IEEE TCLT Vice Chair, EDI & Event
    - New Mexico Institute of Mining and Technology, USA
- Panelists
  - Michelle BANAWAN
    - Computer Science Department, Ateneo de Davao University, Philippines
    - Science of Learning and Educational Technology (SoLET) Laboratory, Arizona State University, USA
  - Jaelyn DOMINGO
    - Department of Computer Science & Software Engineering, California Polytechnic State University, USA
  - Elvira POPESCU
    - Computers and Information Technology Department, University of Craiova, Romania
    - Vice Chair for the IEEE Women in Engineering Romania Section Affinity Group
  - RAMYAA
    - Computer Science & Engineering, New Mexico Institute of Mining and Technology, USA
Future Collaboration Panel

- Session 4-5A (Thursday)
  - 2021-07-15 16:00 to 2021-07-15 17:00 (in GMT)
- Just before the **Best Paper Awards** Announcement & **Close Ceremony**
- **Chaired by**
  - Phillip BENACHOUR
    - IEEE TCLT Vice Chair, Webinar & Collaboration
    - Lancaster University, UK
- **for ICALT participants who**
  - have intention, ideas, and plan to collaborate with other participants **AFTER** they
  - see the correspondent published works, or
  - attend the correspondent presentations, or
  - be inspired by the talks, conversations and discussions
- **panelists** will be selected and invited through self-application made by
  - Up to 6 PM on the 3rd day of ICALT 2020, Wednesday 14th July
  - via email: p.benachour@lancaster.ac.uk
- **all applications** will be further reviewed and invited to submit an article to the "**Collaboration Opportunity**" section in the **Bulletin of the Technical Committee on Learning Technology**
  - The Bulletin is published by IEEE TCLT and is included in Web of Science’s Emerging Sources Citation Index (ESCI)
Discord ICALT Channels for general and tracks
Best Paper Awards

- Best Full Paper Award
  - submitted as Full Paper and accepted as Full Paper
- Best Short Paper Award
  - submitted as Short Paper and accepted as Short Paper
- Best Student Paper Award
  - first author of the paper needs to be a student
  - a student paper can be nominated for more than one award
  - but only one award will be given
- Best Discussion Paper Award
  - submitted as Discussion Paper and accepted as Discussion Paper
Nominations for Best Full Paper Awards

(listed in alphabetic order)

- A mobile educational platform based on peer influence and instructional scaffolding for engaging students in out-of-class activities
- Augmented and virtual environments for students with intellectual disability: design issues in Science Education
- Can Students Learn from Grading Erroneous Computer Programs?
- Cross-platform annotation development for real-time collaborative learning
- Effectivity of an online platform for training language teachers on providing quality feedback in writing activities
- Enabling Precision Education by Learning Analytics Applying Trace, Survey and Assessment Data
- Exploring the Effect of Virtual Currency on Learners Engagement
- Learning about learners: Understanding learner behaviours in software conceptual design TELE
- Remote Special Education during COVID-19: A Combined Bibliometric, Content and Thematic Analysis
- The Impact of Gender on Online Learning Behavioral Patterns: A Comparative Study Based on Lag Sequential Analysis
- Web-based videoconferencing in online teaching during the COVID-19 pandemic: University students’ perspectives
Nominations for Best Short Paper Awards

(listed in alphabetic order)

- Development of a Computer Vision Interactive Game for Supporting Dental Care Education in Taiwan
- Effectiveness of Integrating AR and IoT technologies into Environmental Education for Elementary School Students
- Enhancing the Visual Efficiency for communicating students' personal relevant information
- EnLighten: A Photovoltaics Learning Environment in Virtual Reality
- Goal-Directed Reaching in Real, Augmented, and Virtual Environments
- ReDrEw: A Drawing based Knowledge Organization Task in LA-enhanced Platform
- Shimo-based collaborative argumentative writing: Do grouping patterns matter?
- Unsupervised Clustering of Skills for an Online Learning Platform
Nominations for Best Student Paper Awards

(listed in alphabetic order)

☐ Exploring Learning Strategies by Sequence Clustering and Analysing their Correlation with Student's Engagement and Learning Outcome
☐ Fostering Autonomy through Augmentative and Alternative Communication
☐ Investigating the Factors that Influence Technology Acceptance of an Educational Game Integrating Mixed Reality and Concept Maps
☐ Learners’ non-cognitive skills and behavioral patterns of programming: A sequential analysis
☐ MBOX: Designing a Flexible IoT Multimodal Learning Analytics System
☐ Micro-Prompt: A Strategy for Designing Pedagogically Effective Assignment Free Micro-Lectures for Online Education Systems
☐ Mindmap-Supported Writing Model: The Effect of Mindmap as a Prewriting Activities on Elementary Students’ Writing Performances through Private Social Network Learning Sites
☐ Modeling students' flow experience through data logs in gamified educational systems
☐ Teachers’ Information and Communication Technology (ICT) Assessment Tools: A Review
☐ The Mediation Effects of Task Strategies on the Relationship Between Engagement and Cognitive Load in a Smart Instant Feedback System
Nominations for Best Discussion Paper Awards

(listed in alphabetic order)

☐ No Nomination this year.
Check out the sessions where nominated papers are

<table>
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<tr>
<th>TIME</th>
<th>EVENT</th>
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<td>12:40 – 13:00</td>
<td>Opening Ceremony</td>
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<td>13:00 – 14:00</td>
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<td></td>
<td>Chaired by</td>
</tr>
<tr>
<td></td>
<td>Maiga Chang, Athabasca University, Canada (IEEE TCLT Chair)</td>
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<td>(open for everyone)</td>
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<tr>
<td>14:00 – 14:20</td>
<td>Break</td>
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<td>Charalampos KARAGIANNIDIS, University of Thessaly, Greece</td>
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<td>Fostering Autonomy through Augmentative and Alternative Communication</td>
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<td></td>
<td>João Pedro Cavalcanti Lichoa, Taciana Portual da Rocha Falcão, André</td>
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<td>Camara Alves do Nascimento, Rafael Ferreira Leite De Mello and</td>
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<tr>
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<td>Fêncides Barbosa Cunha de Miranda</td>
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<td>* Nominated for Best Student Paper Award</td>
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Best Paper Awards

- Best Full Paper Award
- Best Short Paper Award
- Best Student Paper Award
- Best Discussion Paper Award

- Best Papers Award winners will be announced in Close Ceremony!
ICALT 2021 Banners
Welcome to ICALT 2021

The 21st IEEE International Conference on Advanced Learning Technologies

Online

July 12-15, 2021

© Conference Time: GMT [https://time.is/GMT]

NEW! 2nd Prior-to-conference test session had successfully done!

On this Sunday morning, we have our second prior-to-conference participant test session (Session 0-3L). We have great opportunity to meet another eight participants. For registered participants who want to use IEEE ICALT virtual backgrounds while doing the presentations, you could take a look at them at https://icalt.online/lobby.php?news after sign in.

We can’t wait to see you all in the Opening Ceremony and TCLT Annual Report sessions tomorrow morning at 12:40 (Noon) in GMT on July 12. You can always sign in and check the Forthcoming Program at https://icalt.online/program.php?view=left. You could double check if the [System Detected] local time is correct. If so, then you can always refer to the [System Gues] local date/time to plan ahead and perhaps write down on your calendar.

Looking forward to “seeing” you all soon.

NEW! Conference Program (July 10, 2021.R1)
ICALT 2021 Official Website

Special Thanks for
ICALT 2021 Conference Program (earlier version)

Program of 21st International Conference on Advanced Learning Technologies (ICALT 2021)

21st IEEE International Conference on Advanced Learning Technologies

(ICALT 2021)

July 12-15, 2021 in GMT (Online)

Conference Presentation

The 21st IEEE International Conference on Advanced Learning Technologies (ICALT 2021) is organized by IEEE Technical Committee on Learning Technology virtually online.

Hosted

Online

Organized by

IEEE Technical Committee on Learning Technology (https://tc.computer.org/tc/)

Chat/Voice/Video Discussion Channel

See last page for the details. The invite url will be sending to all registered participants through the event web system.

Keynotes

"Stealth assessment – What, why and how?"
Valerie SHUTE
Florida State University, USA
Session 1-4A at 16:00 to 17:00 on July 12, 2021 in GMT

"Implementing Learning Analytics for Adaptive Learning in Schools"
Barbara WASSON

Special Thanks for
ICALT 2021 Conference Program (latest version)

21st IEEE International Conference on Advanced Learning Technologies
(ICALT 2021)
July 12-18, 2021 in GMT (Online)

PROGRAM

Contents

Conference Presentation ......................................................... 2
Hosted ................................................................................ 2
Organized by ....................................................................... 2
Chat/Voice/Video Discussion Channel ........................................ 2
Keynotes ............................................................................... 2
Presentation Guidelines ......................................................... 3
Available ICALT Virtual Background for meetings ..................... 4
CONFERENCE AGENDA ......................................................... 5
7/12/2021 (Monday) ............................................................. 5
7/13/2021 (Tuesday) ............................................................ 8
7/14/2021 (Wednesday) ....................................................... 15
7/15/2021 (Thursday) .......................................................... 21
Chat/Voice/Video Discussion Channel ........................................ 28

Special Thanks for
ICALT Virtual Backgrounds

Available ICALT Virtual Background for meetings.

ICALT has the following four virtual background prepared for participants to use in their meetings freely. If you would like, you can download any of them and use it:

- **https://icalt.online/resource/icalt_vb_colorful.jpg**
- **https://icalt.online/resource/icalt_vb_blue.png**
- **https://icalt.online/resource/icalt_vb_yelloworange.png**
- **https://icalt.online/resource/icalt_vb_purpleorange.png**

Special Thanks for
Tutorial Video for How-To Use Zoom

How to share your screen and computer sound in a Zoom meeting?

https://youtu.be/Qq6xtfupBvl
OR
https://icalt.online/watch/?v=Qq6xtfupBvl

How to switch in-between breakout rooms in a Zoom meeting (e.g., in the two Discussion Sessions and Lobby session)?

https://youtu.be/cnAf8lIIZC8
OR
https://icalt.online/watch/?v=cnAf8lIIZC8

NOTE: Special thanks for Dr. Rita Kuo, the IEEE TCLT Vice Chair (2021.6~2023.7), EDI (Equity, Diversity & Inclusion) & Event; New Mexico Institute of Mining and Technology (New Mexico Tech), USA, to help the preparation and the creation of this video.

NOTE: If you cannot access Youtube, you could access the same video on ICALT event’s web system.
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New Mexico Institute of Mining and Technology, USA
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More **secrets** info will be revealed later in TCLT Annual Report session

Don’t miss it!