**SEAMOLEC**

**Universitas Alma Ata**
The Globe Inspiring University

**FITK**

# 1ST ALMA ATA INTERNATIONAL CONFERENCE ON EDUCATION (AAICE)

The International Collaboration Conference between
Faculties of Tarbiyah and Teaching Learning (FITK Alma Ata University)
and Seameo Regional Open Learning Centre (SEAMOLEC)

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**The International Collaboration Conference**
**between**
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_**Theme: Education for Sustainable Development Awareness Toward Society 5.0**_

## A. BACKGROUND

Disruption becomes a social phenomenon that occurs in society. In the disruption era, education will be facing many challenges. One of the challenge in education is how to improve students' skills in global competition in society 5.0 (Salgues, 2018). Competition does not only involve competition between humans and humans, but also competition between humans and a robotic-based work system by utilizing artificial intelligence. Many experts predict that there will be around 130 professions from new sectors that will present and will replace old professions (Baskoro, 2018).

The theory of disruption was present in 2014 by Clayton Christensen. Clayton Christensen predicts that in the next 15 years, 50% of universities will close due to disruption (Strömberg & Thorman, 2019). Universities are disrupted by various kinds of technological innovations in education. There are several disruptions that can be categorized in the world of education, namely, Disruption of Generations, Disruption of Technology, and Disruption of the Industrial Revolution 4.0 (Kilkki et al., 2018). Today, education must understand that generations of students have experienced disruption. The current generation tends to be different from the previous generation because the current generation prefers collaborative learning through interactive learning media, compared to learning that is carried out in class. Technological disruption is related to the existence of technological innovations

(e.g. open educational resources) in the education, such as ruang guru, chem academies and learning gaming that change the educational setting. Classrooms may not be needed too much, teachers as facilitators and learning places more emphasis on collaborative and social activities. The disruption of the industrial revolution 4.0 disrupts existing activities, because they are no longer relevant and have been replaced by artificial intelligence or robots. Not only repetitive work, but also analytical work will also be disrupted, such as analysts, consultants, lawyers, accountants and translators. Advances in machine learning, big data analytics, and artificial intelligence, internet of things, virtual reality, and augmented reality will shift from jobs that are repetitive jobs to creative jobs (Thi My Loc & Tuong, 2021).

Education needs to respond and adapt to this phenomenon, because after all a shift in globalization is a necessity. FITK Alma Ata University and SEAMEAO Regional Open Learning Centre will convene the 1st International Collaboration Conference on Education. The theme of this conference is Future Education in the Disruption Era. This conference will declare by virtually when all experts, policy makers, educators, and other stakeholders to share best practice and discuss on how we as global citizens response to the education challenge in the disruption era.

## B. KEYNOTE TOPICS

The keynote topics in this conference are:

- ✓ Dr. Wahyudi  (Offline)
  Director SEAMEO SEAMOLEC, Jakarta, Indonesia
  (***Digital Ecosystem for Sustainable Education and Community Development***)

- ✓ Professor Masami Isoda, Ph. D (Offline)
  Faculty of Human Sciences/Center for Research on International Cooperation in Educational Development University of Tsukuba
  (***HOTS in Mathematics and Science***)

- ✓ Dr. Andreas Matt (Online)
  Chief Executive Officer bei Imaginary, Berlin, Germany
  (***AI in Mathematics Education***)

- ✓ Professor Zsolt Lavicza (Online)
  Johannes Kepler University, Austria
  (***Technology in STEAM***)

- ✓ Mr. Kok Min Ng, Ph.D (Offline)
  Education Manager Casio Singapore Pte Ltd
  (***TPACK and Educational Technology***)

- ✓ Dr. Nik Md Saiful Azizi Nik Abdullah (Offline)
  Assoc. Prof. Department of Curriculum and Instruction, Kulliyyah of Education, International Islamic University Malaysia
  (***Shifting Paradigm in Islamic Religious Pasca Covid 19***)

## C. INVITED SPEAKER

✓    Dr. Kana Safrina Rouzi, M.Si
     *(Universitas of Alma Ata, Indonesia)*

✓    Dr. Sri Wulandari Danoebroto, M. Pd.
     *(SeaQim, Indonesia)*

✓    Dr. Ahmad Salim, M. Pd.
     *(Universitas of Alma Ata, Indonesia)*

## D. TOPICS COVERAGE

The article topics will be presented in this conference are:

✓ Teaching and Learning in Mathematics

✓ Teaching and Learning in Elementary Schools / Elementary Islamic School

✓ Islamic Education

✓ Technology in Education

✓ HOTS in mathematics education

✓ Ethnomathematics

✓ Educational Psychology

✓ STEM/STEAM education

✓ Mobile Learning in education

✓ Character Education

✓ Other Relevant Topics

## E. OBJECTIVES

This conference aims to:

✓ Identify challenges and opportunities education in the society 5.0.

✓ Provide a platform to showed the best practise in the mathematics, elementary and Islamic education.

✓ Consolidate the policy changes and ways forward for future education.

## F. CONFERENCE MECHANISM

This conference will be done in three parts. The first part will feature the Keynote speeches who shall provide an overview on education for sustainable development awareness toward society 5.0. The second parts are discussion with all participants with keynote speakers. The third parts, each presenter shall share their experiences or best practices in overcome the education for sustainable development.

## G. CERTIFICATE

The e-certificate will be provided and generated by the FITK Alma Ata University and SEAMEO Secretariat as follows:

- ✓ **"Certificate of Appreciation"** will be provided to the speakers and panelists.
- ✓ **"Certificate of Participation"** will be provided to all participants who attend the conference and complete the Certificate Validation and Assessment Form.

## I. TIMELINE

| Activity | Date |
| --- | --- |
| Announcement | March 31, 2023 |
| Deadline Abstract submission | April 30, 2023 |
| Announcement of accepted abstract | May 12, 2023 |
| Deadline Full paper | June 31, 2023 |
| Announcement of Accepted Full paper | July 15, 2023 |
| Deadline of payment | July 31, 2023 |
| Conference | September 16, 2023 |

**REFFERENCE**

Baskoro, G. (2018). Challenges and Opportunities of Higher Education Institution in the disruption era towards Education 4.0. *SemNas TECHNOPEX ITI 2018*, 118–122. http://technopex.iti.ac.id/ocs/index.php/tpx18/tpx18/paper/viewPaper/104

Kilkki, K., Mäntylä, M., Karhu, K., Hämmäinen, H., & Ailisto, H. (2018). A disruption framework. *Technological Forecasting and Social Change*, *129*. https://doi.org/10.1016/j.techfore.2017.09.034

Salgues, B. (2018). Society 5.0 Industry of The Future, Technologies, Methods and Tools. In *British Library Cataloguing-in-Publication Data*.

Strömberg, J. & Thorman, P. (2019). *Disruptive innovation theory in the paper- and packaging industry: applying Clayton Christensen in a new context*. Uppsala: Uppsala Universitet.

Thi My Loc, N., & Tuong, H. S. (2021). University 4.0: Model of University 4.0 Meeting the Development of Industry 4.0. *VNU Journal of Science: Education Research*. https://doi.org/10.25073/2588-1159/vnuer.4491