

Track 6: Engineering Education

Synopsis:

This track is dedicated to advancing the field of engineering education, focusing on innovative approaches and best practices that prepare the next generation of engineers to meet the challenges of a rapidly evolving world. It will cover a range of topics, including the integration of emerging technologies into the engineering curriculum, the development of interdisciplinary programs that bridge the gap between traditional engineering disciplines and new fields, and the adoption of pedagogical strategies that enhance student engagement and learning outcomes. The track will also explore how engineering education can be aligned with industry needs, ensuring that graduates are equipped with the skills and knowledge required to contribute effectively to the workforce. Additionally, discussions will address the importance of fostering diversity and inclusion within engineering programs, as well as the role of continuous professional development for educators. Participants will gain insights into the latest trends and research in engineering education, aimed at creating a more dynamic, inclusive, and industry-relevant learning environment.

[Click here to join Track 6](#)

Track Chair: **Professor Ir. Dr. Leong Wai Yie**

Co-Track Chair: **Lt. Dr. Subash T. D.**



Professor Ir. Dr. Leong Wai Yie



Lt. Dr. Subash T. D.

ICETSD 2024

Sustainable Engineering and Technologies' Best Practices for a Better Tomorrow

PLENARY KEYNOTE ADDRESS



Professor Dr. Muhammad Tariq Bashir,
CECOS University



Dr. Enyonam Kpekpena, World Federation of
Engineering Organisation

ICETSD 2024

Sustainable Engineering and Technologies' Best Practices for a Better Tomorrow

Conference Track "Engineering Education"

28th August 2024

Track Chair: Professor Ir. Dr. Leong Wai Yie

Co-Track Chair: Lt. Dr. Subash T.D.

Plenary Keynote Speakers & Parallel Session, 28th August 2024: 1.30 pm – 4.15 pm (MYT*)

1.30 pm - 1.55 pm	Plenary Keynote Speaker Click here to join Track 6	Professor Dr. Muhammad Tariq Bashir , CECOS University Title: <i>The Integration of Blockchain and AI in Engineering Education: Transforming Learning and Skill Development</i>
1.55 pm - 2.05 pm	Presenter 1: Tang YenFei INTI International University	Title: Preliminary exploration of AI and AR technology in the role reshaping of Dream of the Red Chamber ("Hong Lou Meng") Authors: Tang YenFei, Wai Yie Leong
2.05 pm - 2.15 pm	Presenter 2: Zeng Cheng INTI International University	Title: Tracing the Path from Industry 4.0 to Industry 5.0 through Topic Modeling Analysis Authors: Zeng Cheng, Wai Yie Leong
2.15 pm - 2.25 pm	Presenter 3: Li Yan INTI International University	Title: Employment Status Analysis and Response Strategies of students majoring in mechanical manufacturing and automation in higher vocational colleges under the background of Industry 5.0 Authors: Li Yan, Wai Yie Leong
2.25 pm - 2.35 pm	Presenter 4: Muhammad Nadzirin Anshari Nur Universitas Halu Oleo	Title: An integrated Internet of Things virtual laboratory development model adapted from the waterfall method Authors: Muhammad Nadzirin Anshari Nur
2.45 pm - 3.00 pm	TEA BREAK	
3.00 pm - 3.25 pm	Plenary Keynote Speaker	Dr. Enyonam Kpekpena , World Federation of Engineering Organisation Title: <i>Harnessing the potential of females in engineering education</i>
3.25 pm - 3.35 pm	Presenter 5: Zhang Naixin INTI International University	Title: Future-Oriented Engineering Education in the Digital-Intelligence Era Authors: Zhang NaiXin, Leong Wai Yie
3.35 pm - 3.45 pm	Presenter 6: Peng Guinong INTI International University	Title: Analysis of the effectiveness of virtual reality technology in improving the community garbage classification behavior Authors: Peng Guinong, Wai Yie Leong

ICETSD 2024

Sustainable Engineering and Technologies' Best Practices for a Better Tomorrow

3.45 pm - 3.55 pm	Presenter 7: Yiting Qiu INTI International University	Title: Promoting Sustainability in Academic Guidance: A Design Science Approach to Developing an Artificial Intelligence Agent for Education 5.0 Authors: Yiting Qiu, Shuqing Zhu, MMH Khan, Chan Choon Kit,
3.55pm- 4.05pm	Presenter 8: Zhang Hongli INTI International University	Title: Industry 5.0 and Personalized Education: Application of Intelligent Technology in the Optimization of Vocational Education Resources and Improvement of Teaching Methods Authors: Zhang Hongli, Leong Wai Yie, Liyan