

Proceedings of the 6th International Conference on Innovation in Education, Science, and Culture

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Preface

We are delighted to introduce the proceedings of the 6th International Conference on Innovation in Education, Science and Culture (ICIESC). This conference has brought researchers, developers and practitioners around the world who are leveraging and developing Education, Science and Culture. The theme of ICIESC 2024 was "Synergies in Interdisciplinary Research: Bridging Education, Science, Culture, and Material Applications for Sustainable Development".

The ICIESC 2024 organized by the Research and Community service institution Unimed collaboration with Physical Society of Indonesia, it gives me great pleasure and honour to extend to you all a very warm welcome on behalf of the international conference committee. I wish to take this opportunity to welcome the participants from Universitas Negeri Medan and also other universities as the representative of the students, lecturers, and researchers. I also wish to welcome our keynote speaker Prof. Dr. Syawal Gultom, M.Pd. (*Chairman of the Senate of Universitas Negeri Medan*), Prof. Ir. Dr. Sulaiman Wadi Harun (Head of Department Electrical Engineering, Faculty of Engineering, Universiti Malaya, Kuala Lumpur, Malaysia), Prof. Dr. Tosawat Seetawan (Director CEAE Sakon Nakhon Rajabhat University –Thailand), Assoc. Prof. Dr. Sonja Kuzich (Director of Learning and Teaching, School of Education Faculty of Humanities, Curtin University) and five invited speakers Assoc. Prof. Dr. Kerista Tarigan, M.Eng.,Sc (Chief of PSI North Sumatra), Dr. Izziah, M.Sc (Engineering Faculty, Universitas Syiah Kuala), Dr. Solihatul Hamidah Daulay, M.Hum (Linguistic Faculty, Universitas Islam Negeri Sumatera Utara), Dr. Ida Liana Tanjung, M.Hum (Head of Center for Cultural and Tourism Studies of LPPM Hasanuddin University), Grasiyanto, Ph.D. (Department of Chemistry, Institut Teknologi Sepuluh Nopember, Surabaya, Indonesia), for coming to Medan. I hope, today's event will serve as a catalyst for strengthening international cooperation on the transfer of knowledge. In addition, we were most thankful for the ceaseless efforts of staff members of The Institute of Research and Community, Universitas Negeri Medan including our Rector, Prof. Dr. Baharuddin, M.Pd and our Chief, Dr. Hesti Fibriasari, M.Hum. Conferences such as this one provide an opportunity to talk about common challenges, share best practices, and discuss ground-breaking scientific research and technology that will help our field to be balanced with hard efforts to improve the right, fast, and accurate information system to produce innovative and creative research results that can provide added value to the business world and the industrial world (DUDI). Moreover, we have provided full support so that technology and knowledge developed at other distinguished universities in Indonesia can be spread globally, with Universitas Negeri Medan serving as the channel. Our interest can succeed only with continued interest and support from diverse parties including not only Universitas Negeri Medan itself but also industries, the academia, the government, and investors.

There are 372 articles submitted to the committee including short and full paper type. Some of which were presented orally in parallel sessions, and extended abstract form. All participants in the presenter form divided to 12 parallel rooms. The articles have been reviewed by double blind review and 200 of them were accepted to be published by EAI indexed by International Indexation.

Grateful thanks to all of the members of the 6th International Conference on Innovation in Education, Science and Culture (ICIESC) for their outstanding contributions. Thanks also given to the EAI publishing for producing this volume.

The Editors:
Hesti Fibriasari
Ricky Andi Syahputra

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