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multiple perspectives on the important factors that contribute to mathematics teaching and learning in different educational systems and cultural contexts Using large scale data generated by numerous international comparative studies the book analyzes and provides context for various methodological perspectives The book raises compelling questions and issues for mathematics education researchers leading to a critical examination of what can be learned from other education systems Authors address four major research perspectives by critically examining cross national similarities and differences such as research on the influence of curriculum on student learning research on institutional systems of mathematics teacher education research on improving teacher knowledge and pedagogical approaches and research using large scale data This collection of perspectives serves as a foundation for reviewing and analyzing the international comparative studies introduced in the book **The 9th Annual International Seminar on Trends in Science and Science Education (AISTSSE) 2022** ,2023-10-04 This is the ninth time we are hosting this seminar and we are proud to inform you that this seminar is an annual event in our calendar and has been held every year since 2014 This year for the third year we are holding it via Zoom meeting online meeting due to Covid 19 pandemic We are inviting internationally recognized speakers from several countries to share their latest discoveries in the fields of Biology Chemistry Physics Mathematics and Science Education Well known researchers in science and science education will share their experiences and knowledge so that we can stay up to date with the latest information This is one of the goals of this seminar As science researchers we realize the importance of information exchange among us The new information enlightens our minds and gives us ideas on what to do next in our research and how to do it This new information often becomes the foundation for our next project in particular and sets the research trends for the upcoming year in general Information exchange also keeps us updated allowing us to give and receive suggestions and critiques that will lead to better results Therefore we need a forum where we can share and exchange information Seminars conferences and other scientific gatherings are the media through which we can do this Organizer Faculty of Mathematics and Natural Sciences of Universitas Negeri Medan Where Web Seminar via Zoom Meeting When Tuesday 8th November 2022 Theme The development of industrial based research in science and science education to improve research innovation strategy Topics AISTSSE 2020 included following topics 1 Mathematics Science 2 Mathematics Education 3 Physics Science 4 Physics Education 5 Biology Science 6 Biology Education 7 Chemistry Science 8 Chemistry Education 9 Computer Science 10 Science Education Scientific Committee 1 Prof Dr Syawal Gultom M Pd Universitas Negeri Medan Indonesia 2 Prof Dr Marleen Kamperman University of Groningen Netherland 3 Prof Manihar Situmorang M Sc Ph D Universitas Negeri Medan Indonesia 4 Prof Tsunenori Mine School of Engineering Department of Electrical Engineering and Computer Science Kyushu University Japan 5 Prof Dian Armanto M Pd Universitas Negeri Medan Indonesia 6 Prof Dr Herbert Sipahutar M Sc Universitas Negeri Medan Indonesia 7 Prof Abedel Karrem Nasser M Alomari Department of Mathematics Faculty of Science Yarmouk University Jordan 8 Prof Dr Bornok Sinaga M Pd Universitas Negeri Medan

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