

PAPER • OPEN ACCESS

The 2nd International Seminar on Innovation in Mathematics and Mathematics Education (ISIMMED 2018)

To cite this article: 2019 *J. Phys.: Conf. Ser.* **1320** 011001

View the [article online](#) for updates and enhancements.



IOP | ebooks™

Bringing together innovative digital publishing with leading authors from the global scientific community.

Start exploring the collection—download the first chapter of every title for free.

**The 2nd International Seminar on Innovation
in Mathematics and Mathematics Education (ISIMMED 2018)**

Universitas Negeri Yogyakarta, Indonesia

20-24 November 2018

Editors:

Dr. Agus Maman Abadi

Fakultas Matematika dan Ilmu Pengetahuan Alam,
Universitas Negeri Yogyakarta, Indonesia
agusmaman@uny.ac.id

Dr. Ariyadi Wijaya

Fakultas Matematika dan Ilmu Pengetahuan Alam,
Universitas Negeri Yogyakarta, Indonesia
a.wijaya@uny.ac.id

José Antonio Vallejo, Ph. D.

Facultad de Ciencias,
Universidad Autónoma de San Luis Potosí, Mexico
jvallejo@fc.uaslp.mx



Preface: Proceedings of the 2nd International Seminar on Innovation in Mathematics and Mathematics Education 2018

A Wijaya¹, A M Abadi¹, and J A Vallejo²

¹Mathematics Education Department, Yogyakarta State University, Indonesia

²Facultad de Ciencias, Universidad Autónoma de San Luis Potosí, Mexico

We are honored to present a collection of articles from the 2nd International Seminar on Innovation in Mathematics and Mathematics Education (ISIMMED 2018) which was conducted in Universitas Negeri Yogyakarta, Indonesia from 20 to 24 November 2018.

The theme of the conference was '*innovative technology in mathematics: new ways for learning, teaching, and researching mathematics*'. In the era of Industrial Revolution 4.0, the use and integration of technology into various aspects of everyday life is rapidly increasing. The availability and development of advanced technology have a great impact on the practices of educational research and classroom activities in the fields of mathematics and mathematics education. This situation becomes a great challenge and motivation for researchers and educators. Various technological innovations have been invented and developed to improve the quality of research and education in the field of mathematics. The advanced technological tools such as computer algebra systems (CAS), interactive and dynamic geometry software, and hand-held devices, have been enabling the effectiveness of mathematics teaching and learning.

During the ISIMMED 2018, scholars, educators, and researchers in the field of mathematics and mathematics education from many countries gathered to share their expertise and works. After a series of review process, 108 articles are selected to be published in this Scopus-indexed proceeding. The remaining articles are published in the regular proceeding.

The editors and the committees of ISIMMED 2018 would to thank the participants who have contributed and shared their scientific works in this proceeding. We also would to to express our gratitude to every committee member for organizing the conference and to Universitas Negeri Yogyakarta for the financial support.

15 March 2019

Editors

Ariyadi WIJAYA

Agus Maman ABADI

José Antonio VALLEJO

List of Committees

International Program Committee (IPC)

International Program Co-Chairs

Wei-Chi YANG , Radford University, U.S.A.

Weng Kin HO , NIE/ Nanyang Technological University, Singapore

International Program Committee

Paul ABBOTT , University of Western Australia, Australia

Tilak de ALWIS , Southeastern Louisiana University, U.S.A.

Keng Cheng ANG , NIE/ Nanyang Technological University, Singapore

Yiming CAO Beijing Normal University, China

Jen-Chung CHUAN , National Tsing Hua University, Taiwan

Jean-Jacques DAHAN , Paul Sabatier University Toulouse France

Ma. Louise Antonette De Las Penas , Ateneo De Manila University, Philippines

Hongguang FU , University of Electronic Science and Technology-Chengdu (UESTC), China

Masami ISODA , University of Tsukuba, Japan

Matthias KAWSKI , Arizona State University, U.S.A.

Mirosław MAJEWSKI , New York Institute of Technology, United Arab Emirates

Krongthong KHAIRIREE , Suan Sunandha Rajabhat University, Thailand

Barry KISSANE , Murdoch University, Australia

Carl LIU , Leshan Vocational and Technical College, China

Alasdair McANDREW , Victoria University, Australia

Douglas MEADE , The University of South Carolina, U.S.A.

Eva Milková , University of Hradec Králové, Czech Republic

Vladimir Nodelman , Holon Institute of Technology, Israel

Inder K RANA , Indian Institute of Technology, Powai, India

Tadashi TAKAHASHI , Konan University, Japan

José Antonio VALLEJO , Universidad Autónoma de San Luis Potosí Mexico

Tianfei WANG, Leshan Normal University, China

Yuan YUAN , Chung Yuan Christian University, Taiwan

Local Organizing Committee (LOC)

Dr. Hartono

Dr. Ali Mahmudi

Dr. Ariyadi Wijaya

Dr. Sri Andayani

Dr. Agus Maman Abadi

Dr. Sugiman

Prof. Dr.rer.nat. Widodo, M.S.

Dr. Wahyudi Wahyudi

Endah Retnowati, PhD.

Wahyu Setyaningrum, PhD.

Kismiantini, PhD.

Sahid, MSc.

Advisory Committee

Bruno BUCHBERGER, LINZ, Austria

Peng Yee LEE, NIE/ Nanyang Technological University, Singapore

Lu YANG, Chinese Academy of Sciences, China