

# Selected Peer-Reviewed Articles from the First International Joint Conference on Science and Technology (IJCST 2016), Bali, Indonesia, 12–13 October, 2016

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**Submission date:** 06-Oct-2020 11:22AM (UTC+0700)

**Submission ID:** 1406719350

**File name:** ASL-2.pdf (4.57M)

**Word count:** 789

**Character count:** 4888



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The IJCST 2016 is an international scientific conference held in the beautiful island of Bali, Indonesia which was jointly organized by Faculty of Industrial Technology of Universitas Pembangunan Nasional “Veteran” Jawa Timur, Bali State Polytechnic, National Cheng-Kung University, Faculty of Social Science and Law of Universitas Negeri Surabaya, Faculty of Mathematics and Natural Sciences of Universitas Negeri Surabaya, and Faculty of Engineering of Universitas Trunojoyo Madura.

The event was a place for international researchers, lecturers, students and practitioners to meet, greet, share and exchange their valuable ideas in the advancement of science and technology in the area of engineering, mathematics, natural science, education, and social. The IJCST 2016 believed in the view that to solve current and future potential complicated problems require a multidisciplinary approach and a joint effort of people and resources of various backgrounds.

The parallel session was divided into six groups where each group discussed topics in the domain guided by experts invited to lead. The followings are short descriptions of what was discussed in each group.

### 1. Engineering

This session discussed the theme “Science and Technology Innovation for Sustainable Development of Globally Competitive and Socio-Environmentally Friendly Industry.” Researchers from various backgrounds which are Chemical Engineering, Industrial Engineering, Food Technology, Information Technology and Information Systems, Civil Engineering, and Mechanical Engineering exchanged ideas on how to solve problems from their respective backgrounds in order to sustain the industrial development globally but with less negative excess.

### 2. Social

The participants in this session came from social discipline and discussed the main theme “Role of Social Sciences, Education,

Humanities to Realize Dignified Nation in Global Society.” The sub-themes include Intellectual Community Rights, Social Change, Sustainable Development, Cultural Heritage, Media Literacy, Civics Education, Good Electronic Government, Education to Realize Dignified Nation, Role of Humanities Science to Realize Human Welfare, Development of Cross Cultural Communication in Global Society, Sustainable Development for Human Welfare, and Green Tourism.

### 3. Mathematics, Natural Sciences and Education

The last session discussed “Enhancement and Acceleration on Research and Learning in Mathematics, Natural Sciences and Education” with sub-themes in Education which include Mathematics, Physics, Chemistry, Biology, Science, Computer and Instructional Technologies, and Environment. Other sub-themes are Teacher Training, E-Learning, Mathematics, Computer Science, Applied Mathematics and Statistics, Physics, Chemistry, Biology, Geophysics.

### Guest Editors

**A. P. Bayuseno  
Jamari**

Universitas Diponegoro, Semarang, Indonesia

**Bill Atweh**

Curtin University, Australia

**Wolfgang W. Schmahl**

Ludwig-Maximilians-University of Munich, Germany

**Sheng Zhang**

University of Twente, The Netherlands

## ABOUT THE GUEST EDITORS



**A. P. Bayuseno** received a doctorate degree in Mechanical Engineering from Ruhr Universitat Bochum, Germany. He is interested in doing research in the area of Engineering particularly in Ceramic Engineering, Ceramic and Composite. He has published more than 40 papers indexed in Scopus. He is a full professor at Universitas Diponegoro, Semarang, Indonesia and visiting professor at University of Munchen, Germany.



**Bill Atkinson** completed his Ph.D. at the University of Wisconsin, USA. He is particularly interested in the socio-cultural aspects of mathematics education. His recent works included some writings and research on the Socially Responsible Mathematics Education, a project involving the use of mathematics to increase democratic participation of students.



**Wolfgang W. Schmahl** is the Director of the mineralogical state collection Munich and professor in Ludwig Maximilian Universitat Munchen, Germany. His working areas are inorganic and biogenic materials. He has more than 140 papers published in scopus indexed journals.

IP: 182.255.1.11 On: Thu, 17 May 2018 04:16:33  
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**Jamari** is currently working at Universitas Diponegoro, Semarang, Indonesia. He completed his doctorate degree from University of Twente, Netherland. His research interests are in the area of mechanical, material, and structural engineering. He has particularly expert knowledge and skills in the Finite Element Analysis, Solid Mechanics, Structural Analysis, Finite Element Modeling, and Stress Analysis. He has written more than 80 scopus indexed papers including those in top journals. He is also currently one of the senior staffs in University of Twente.



**Sheng Zhang** is Ph.D. researcher at the University of Twente, Netherland. His research interests are in the area of: Multi-asperity contact behavior between human skin and micro-textured surfaces; Surface texture design for tactility enhancement; Steel sheet texture for functionality.

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