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35 YEARS OF BINUS FOR A GREATER NUSANTARA

KICSS 2016

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The Eleventh 2016 International Conference on Knowledge, Information and Creativity Support Systems (The KICSS 2016)

Proceeding

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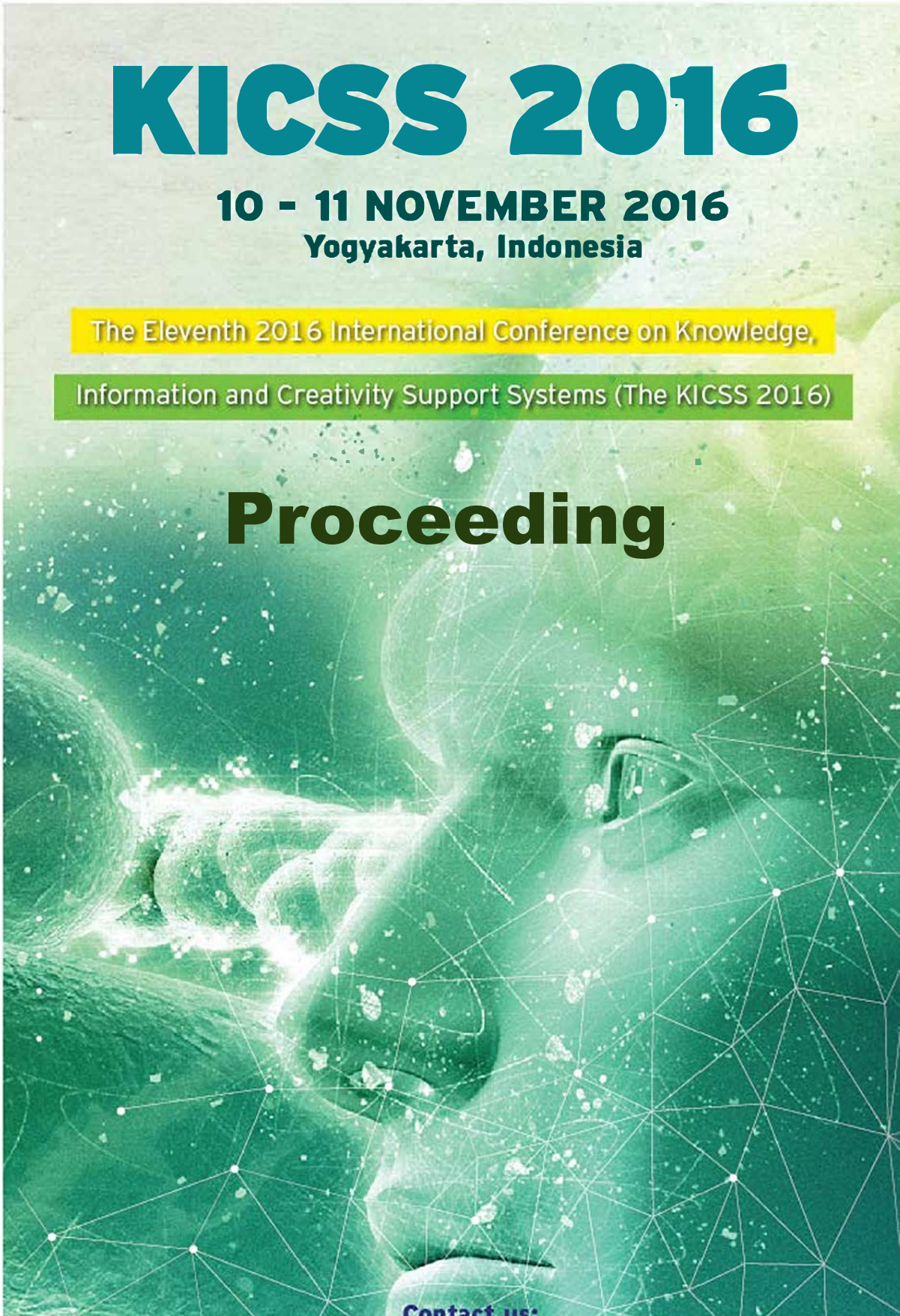

Contact us:
kicss2016@binus.edu, kicss2016@gmail.com 0821 1120 0419 http://www.kicss.org/home.html

KICSS 2016

The Eleventh International Conference on Knowledge, Information and Creativity Support Systems aims to facilitate technology and knowledge exchange between International researchers/scholars in the field of knowledge science, information systems, and system science and creativity support systems intensively in November 2016. The conference covers a broad range of research topics in the fields of knowledge engineering and science, information technology, creativity support systems and complex system modeling.

The conference has so far been an important event and has attracted many scientists, engineers and researchers from academia, government laboratories, and industry internationally.

Following the tradition of previous conferences on Knowledge, Information and Creativity Support Systems, KICSS 2016 will cover all aspects of knowledge management, knowledge engineering, intelligent information systems, and creativity in an information technology context, including computational creativity and its cognitive and collaborative aspects. Papers reporting original unpublished research results on theoretical foundations, IT implementations of decision support and expert systems, as well as case studies of successful applications of the above-mentioned ideas in various fields are equally solicited.

The main objectives of KICSS are to:

1. Disseminate the state-of-the-art information and knowledge on scientific findings in the area of Knowledge, Information and Creativity Support Systems,
2. Initiate working network and offer appropriate platform for knowledge sharing and exchange among local and international academicians, researchers, engineers and industrial practitioners who are actively involved in the field of Knowledge, Information and Creativity Support Systems,

More than 150 papers have been submitted and 57 papers have been accepted and will be presented in the two-day conference which gathers participants, keynote and plenary speakers from Indonesia, Japan, Malaysia, German, and Thailand. It is hoped that this conference will provide a golden opportunity for everyone to discuss and share ideas on issues pertaining to product designs and concurrent engineering for the benefit of the learning institutions, companies and global society at large.

FOREWORD BY THE RECTOR OF BINA NUSANTARA UNIVERSITY

In the current global economy which embraces the Knowledge, Information and Creativity Support Systems with more contribution to the Knowledge, Information and Creativity Support Systems. It is our belief that the Knowledge, Information and Creativity Support Systems can provide the right tools and methodology to the science and knowledge in enhancing the level of education in their field. The KICSS also provides the platform for experts in the Knowledge, Information and Creativity Support Systems to exchange and generate ideas in transformation towards the global education.

I would like to congratulate the Binus Graduate Program, Binus University, Japan Advanced Institute of Science and Technology (JAIST) and Jalap Creativity Society (JCS) for their effort in organizing the KICSS 2016. To all speakers, presenters and participants, I thank you all for participating and welcome you to this conference. The success of this conference depends on your participation and contribution in promoting the Knowledge, Information and Creativity Support Systems philosophies and activities as well as fostering closer mutual ties between the academicians, industry and society at large.

All the best to KICSS 2016.

PROFESSOR DR. IR. HARJANTO PRABOWO, MM
Rector, Bina Nusantara University

FOREWORD BY THE CHAIRMAN OF KICSS 2016

I would like to extend my warmest welcome to all keynote and plenary speakers, paper presenters and participants of KICSS 2016. It is a great pleasure to have you all here.

The Eleventh International Conference on Knowledge, Information and Creativity Support Systems aims to facilitate technology and knowledge exchange between International researchers/scholars in the field of knowledge science, information systems, and system science and creativity support systems intensively in November 2016. The conference covers a broad range of research topics in the fields of knowledge engineering and science, information technology, creativity support systems and complex system modeling.

I would like to thank all the KICSS 2016 main and working committees for their dedication and hard work in making this conference a successful and memorable event, particularly the Binus Graduate Program, Bina Nusantara University, Japan Advanced Institute of Science and Technology (JAIST) and Jalap Creativity Society (JCS).

On behalf of the committee, I would like to thank the Research & Technology Transfer Office, Binus University for the continuous support to this conference event. Last but not the least, I express my gratitude to the paper reviewers and contributors for your endless support.

Thank you very much.

DR. FORD LUMBAN GAOL
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