1ˢᵗ International Conference
on Computer Science and Engineering

Converging Technologies
for Smart Environments

**Palembang, South Sumatera
Indonesia
October 1-2, 2014**

PROCEEDING
PROCEEDING

PROCEEDING

Secretariat of ICON-CSE 2014
Kampus Progam Diploma Komputer, Universitas Sriwijaya
Jl. Srijaya Negara, Bukit Besar, Palembang
South Sumatera - Indonesia
Telp : 0711-379249, Fax : 0711-379248, 0711-581710
Email : iconcse2014@gmail.com

http://iconcse.unsri.ac.id

Faculty of Computer Science
Sriwijaya University

i

ORGANIZING COMMITTEE

Conference Board of Director

1. Prof. Dr. Germano Lambert-Torres,
2. Prof. Dr. Serhat Şeker,
3. Prof. Dr. Sci. Ildar Z Batyrshin. Ph.D,
4. Prof.Dr. Badia Parizade,
5. Prof. Dr. Ir. H. Anis Saggaff
6. Dr. Darmawijaya

Universidade Federal de Itajuba, Brazil
Istanbul Technical University, Turkey
Mexican Petroleum Institute, Mexico
Universitas Sriwijaya, Indonesia
Universitas Sriwijaya, Indonesia
Universitas Sriwijaya, Indonesia

Conference Chair	: Assoc.Prof. Dr. Siti Nurmaini
Vice Chair	: Rossi Passarella, M.Eng
Secretary	: Firdaus, M.Kom
	Atika Mailasari
Technical and Logistic	: Ahmad Zarkasih, MT
	Bambang Tutuko, MT
Food and Berverages	: Nurhefi
Schedule and program	: Dr. Deris Stiawan
	Drs. Saparudin, PhD
Website	: Dr. Reza Firsandaya Malik
	Tasmi Salim, SSi
Registration and Visa	: Ahmad Fali Oklilas, MT
	Erwin S.Si M.Si
General Info	: Ahmad Heriyanto, M. Kom
	Sri Desy, MT
Publication and Documentation	: Sutarno, MT
Proceeding	: Huda Ubaya, MT
	Ahmad Rifai, MT

PREFACE

First of all, I would like to say " Welcome to Palembang, Indonesia" to all participants. It is an honor fo us to be enstrusted to organize **The first international conference on computer science and engineering 2014 (ICON CSE 2014).** The aims of this conference is to promote exchange ideas and research result related to computer science and engineering.

In partnership between Faculty of Computer Science, Sriwijaya University, Kirklareli University and Institute of Advanced Engineering and Science (IAES), we are delighted to be hosting the first international conference on computer science and engineering 2014 from September 30- October 2 and welcome all the Scientists, engineers and students from various countries in world. This is a great privilege and we are honored to host the conference this year.

The first international conference on computer science and engineering 2014 is more than just a conference but a good educational platform, to generate a good research and publication among young and talented students, scientists and engineers who will be the future scientists, engineers and technology innovators. For this year the paperswere 28 papers and 60 posters.

I would like to take this opportunitytothank all of the authors, who have shown interest to contribute to this conference, and also to thank all of keynote speakers :Assoc. Prof. Dr. Jafri Din, from UniversitiTeknologi Malaysia(UTM) and Augie Widyotriatmo, Ph.D, from InstitutTeknologi Bandung (ITB)as well as from the stakeholder PT TELKOM, Ir. HenriyantoToha for the short talk session. Without your contribution and participation this conference will not happen.

Last but not least, I would like to thank our faculty and university and also sponsor for the support of this conference. My deepest gratidtude goes to all members of organizing committee have worked extremely hard to prepare this special conference

I hope that all participats enjoy the conference and have a memorable time visiting our city, Palembang.

Palembang, 1 October 2014

Assoc.Prof.Dr. Ir. Siti Nurmaini, MT
Conference Chair ICONCSE 2014
http://iconcse.unsri.ac.id

iii

TABEL OF CONTENTS