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## International Conference on Information System, Computer Science and Engineering

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The banner features a decorative top border with a repeating pattern of red, white, and blue diagonal stripes. On the left, the ECS logo is displayed in green and blue, followed by the text 'The Electrochemical Society' and 'Advancing solid state & electrochemical science & technology'. To the right of this text is a logo for the 18th International Meeting of the Chemical Society (IMCS18), consisting of a stylized 'E' and 'S' with '18th' below it. The main text of the banner reads '239th ECS Meeting with IMCS18' in large blue font, followed by 'DIGITAL MEETING • May 30-June 3, 2021' and 'Live events daily • Free to register' in black font. On the right side, there is a red button with white text that says 'Register now!'. The background of the banner is a collage of images: a person's face, a laptop, and abstract digital network patterns.

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**International Conference on Information System Computer  
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ICONISCSE 2018**



**(ICONISCSE 2018)**

**NOV 26-27, 2018 — PALEMBANG, INDONESIA**

Accepted, peer reviewed papers from ICONISCSE 2018

Edited by

ICONISCSE Committee  
Palembang – Indonesia

2018



## **PREFACE**

The objectives of the International Conference on Information System Computer Science and Engineering (ICONISCSE) are to gain and expand knowledge of the latest issues, opinions, brilliant ideas about constructive comprehensive technological developments from students, researchers, and academics to bring new innovations in technology to a better future especially in the field of software engineering, computer engineering, computer science and information system.

The International Conference on Information System Computer Science and Engineering is a place of debate and sharing research ideas and results related to the topics of the conference.

ICONISCSE 2018 aims to be a hub for sharing research ideas and results, built on the scientific contributions of the participants, in accordance with the conference sections.

ICONISCSE 2018 brings together researchers, experts and representatives from maritime academia, companies, and public authorities, eager to review, discuss, and explore the latest opportunities and strengths in the software engineering, computer engineering, computer science and information system domain.

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## Preface

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