

**2018 the 3rd International Conference on Computational
Intelligence and Applications
ICCIA 2018**

**2018 the 2nd International Conference on Bioinformatics and
Computational Intelligence
ICBCI 2018**

July 28-30, 2018

Hong Kong

REGAL ORIENTAL HOTEL

Address: 30 - 38 Sa Po Road, Kowloon City, Hong Kong

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Instructions

Registration Guide

Arrive at the Conference Venue→Inform the conference staff your paper ID→Sign your name on the Participants List→Check your conference materials.

Checklist:

1 receipt, 1 name card, 1 conference program, 1 lunch coupon, 1 dinner coupon, 1 USB (papers collection), 1 computer bag

Devices Provided by the Conference Organizer:

Laptops (with MS-Office & Adobe Reader)

Projectors & Screen

Laser Sticks

Materials Provided by the Presenters:

PowerPoint or PDF files

Duration of each Presentation (Tentatively):

Regular Oral Session: 15 Minutes of Presentation including 2-3 Minutes of Q&A

Notice:

*Certificate of Listener can be collected in front of the registration counter.

*Certificate of Presenter can be collected from the session chair after each session.

*The organizer will not provide accommodation, so we suggest you make an early reservation.

*One best presentation will be selected from each session. The best one will be announced when each session ends, and will be awarded by the session chair after each session in the meeting room.

Message from Conference Chair

After a successful organization of the international conference series of Computational Intelligence and Applications in Jeju, South Korea in 2016 and in Beijing, China in 2017, now we have its 3rd event in Hong Kong, China this year. This year's international conference continues its aim to provide a forum for accessing to the most up-to-date and authoritative knowledge from both industrial and academic worlds, sharing best practice in the field of Computational Intelligence and Applications.

The objective of the conference is to address and deliberate on the latest technical status and recent trends in the research and applications of Computational Intelligence and Applications. This conference has been designed with the view to provide an opportunity for researchers and engineers from both industrial and academic to interact and exchange their new ideas and research outcomes for future collaboration.

This year, we have more than 100 research paper submissions from about 10 countries and regions from the world. With high quality in research and practice, these submissions represent most comprehensive and worldwide state-of-the art knowledge in the field of measurement instrumentation and electronics. All the papers to be included in this collection had undergone the careful peer-review by the conference technical committee members and international reviewers before they're selected for publication. Studies presented in this volume cover, among others, the following research areas: neural network, imaging and signal processing, data analysis and system modeling, hardware design.

We would like to take this opportunity to thank many people. First and foremost we want to express our deep appreciation to keynote speakers, session chairs, as well as all the reviewers for their efforts and kind help in this congress. Final thanks go to all authors and participants at ICCIA 2018 and ICBCI 2018 for contributing to the conference and make it a successful event.

Prof. William W. Song, *Dalarna University, Sweden and Jiangxi University of Finance and Economics, China*

June 2018, Hong Kong, China.

Message from Conference Committees

Dear Participants,

Welcome to 2018 the 3rd International Conference on Computational Intelligence and Applications (ICCIA2018) and 2018 the 2nd International Conference on Bioinformatics and Computational Intelligence (ICBCI2018) which will both be held in Hong Kong during July 28-30, 2018. The objective of these two conferences is to provide a premium platform to bring together researchers, scientists, engineers, academics and graduate students to share up-to-date research results.

We are confident that during this time you will get the theoretical grounding, practical knowledge, and personal contacts that will help you build a long-term, profitable and sustainable communication among researchers and practitioners in the related scientific areas.




We wish to express our thanks to our distinguished speakers, Prof. David Zhang (IEEE Fellow), Prof. C. L. Philip Chen (IEEE Fellow), Prof. Manuel Núñez, Prof. Ning Xiong, Prof. William W. Song, Prof. Hesham H. Ali and other distinguished scholars for sharing their deep insights.

Special thanks to all reviewers, researchers and students who participate in the conference with their works.

Hope you could enjoy the conference and have an unforgettable experience in Hong Kong!

Conference Organizing Committees

Agenda Overview

<p>July 28, 2018, Saturday 10:00-17:00 Registration (Lobby)</p>	<p>11:20-12:00 Keynote Speaker IV (Conference Room I&II) Prof. Manuel Núñez, Complutense University of Madrid, Spain</p> <p><i>Speech Title: An Application of Fuzzy Automata to Analyze Heart Data</i></p>
<p>July 29, 2018, Sunday</p> <p>9:00-9:05 Opening Remarks (Conference Room I&II) Prof. William W. Song, Dalarna University, Sweden</p> <p>9:05-9:45 Keynote Speaker I (Conference Room I&II) IEEE Fellow, Prof. David Zhang, Chinese University of Hong Kong (Shenzhen), China</p> <p><i>Speech Title: Facial Multi-Characteristics and Applications</i></p> <p>9:45-10:25 Keynote Speaker II (Conference Room I&II) IEEE Fellow, Prof. C. L. Philip Chen, Dean and Chair Professor of Faculty of Science and Technology, University of Macau, Macau</p> <p><i>Speech Title: Universal Approximation Capability of Broad Learning System and its Structural Variations</i></p>	<p>12:00-13:00 Lunch (Cantine)</p> <p></p>
<p>10:25-10:40 Coffee Break and Group Photo (Foyer)</p> <p></p>	<p>13:00-13:40 Keynote Speaker V (Conference Room I&II) Prof. Ning Xiong, Mälardalen University, Sweden</p> <p><i>Speech Title: Fuzzy and Case-Based Reasoning</i></p>
<p>10:40-11:20 Keynote Speaker III (Conference Room I&II) Prof. William W. Song, Dalarna University, Sweden</p> <p><i>Speech Title: Does Semantic Structure Guide Logic Reasoning in Big Data?</i></p>	<p>13:40-16:00</p>
	<p>Plenary Speaker + Session 1- Bioinformatics and Statistical Analysis (Conference Room I&II) Prof. Hesham H. Ali, University of Nebraska Omaha, USA</p> <p><i>Speech Title: Next Generation Tools for Big Data Analytics in Bioinformatics</i></p>
	<p>Session 2-System Modeling, Optimization and Analysis (Conference Room III) Session 3-Intelligent Algorithms and Applications (Conference Room IV)</p>
	<p>16:00-16:20 Coffee Break</p>
	<p>16:20-18:20</p>
	<p>Session 4-Image Processing Technology and Applications (Conference Room I&II) Session 5- Artificial Intelligence and Intelligent Technology (Conference Room III) Session 6- Information Communication and Security (Conference Room IV)</p>
	<p>9:00-18:20 Poster Session</p>
	<p>18:30-20:00 Dinner (Cantine)</p> <p></p>

**Note: Conference Room I&II, III and IV are on the 1st floor.
 Cantine is on the floor B1.**

July 30, 2018, Monday-One Day Tour in Hong Kong

9:00-12:00



Kowloon Walled City Park



Wong Tai Sin

13:00-19:00



Tsim Sha Tsui



Victoria Peak



Repulse Bay



Hong Kong Convention and Exhibition Centre



Golden Bauhinia Square



Victoria Harbour

Note:

Lunch and Attraction tickets are not included in the one day tour fee.

Considering we need to prepare the tour in advance, onsite registration for tour cannot be acceptable.