

**2018 7th International Conference on Software
and Computer Applications
(ICSCA 2018)**

**2018 6th International Conference on Information
and Computer Networks
(ICICN 2018)**

February 8-10, 2018

**Kuantan, Malaysia
Supported by Universiti Malaysia Pahang**

Conference Abstract

Welcome Letter

Welcome to Kuantan, Malaysia to attend 2018 7th International Conference on Software and Computer Applications (ICSCA 2018) and 2018 6th International Conference on Information and Computer Networks (ICICN 2018). We're confident that over the 3 days you'll get theoretical grounding, practical knowledge, and personal contacts that will help you build long-term, profitable and sustainable communication among researchers and practitioners working in a wide variety of scientific areas with a common interest in Software and Computer Applications and Information and Computer Networks.

On behalf of the conference committee, we would like to thank all the authors as well as the program committee members and reviewers. Their high competence, their enthusiasm, their time and expertise knowledge, enabled us to prepare the high-quality final program and helped to make the conference a successful event.

Once again, thanks for coming to this conference, we are dedicated to higher and better international conference experiences. We will sincerely listen to any suggestion and comment; we are looking forward to meeting you next time.

Instructions for Oral Workshop

Note: The following time arrangement is for reference only. In case any absent or some presentations are less than 15 minutes, please come before your session starts.

*One best presentation will be selected from each session, announced and awarded certificate at the end of each session.

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 (USB flash disk Or CD)**
- ✧ **Poster Presentation: A1 Size / Portrait Direction**

Please copy your slide file to the desktop before the session starts

During your poster session, the author should stay by your poster paper to explain and discuss your paper within visiting

Duration of Each Presentation:

- ✧ **Regular Oral Session: about 15 Minutes of Presentation including Q&A.**
- ✧ **Keynote Speech: 45 Minutes of Presentation including Q&A.**

About Dress Code

- ✧ **All participants are required to dress formally. Casual wear is unacceptable.**
- ✧ **National formal dress is acceptable.**

Conference Speakers



Prof. Dr. Kamal Zuhairi Zamli

**Universiti Malaysia Pahang, Malaysia
DEAN OF THE FACULTY OF COMPUTER
SYSTEMS & SOFTWARE ENGINEERING (FSKKP)**

Biography: Kamal Z Zamli obtained his degree in the field of Electrical Engineering from Worcester Polytechnic Institute, USA in 1992. He then pursued his MSc (Real-Time Software Engineering) from Universiti Teknologi Malaysia in 2000 and PhD from Software Engineering from University of Newcastle upon Tyne, UK in 2003. He has written nearly 350 papers in journals and conferences worldwide mainly in the area of (combinatorial t-way) Software Testing as well as Search based Software Engineering. He is the runner up for the Q-Merit Award conferred by the Malaysian Software Testing Board (MSTB, 2011) based on his contribution to the field of Software Testing in Malaysia.



Prof. Luigi Benedicenti,
University of Regina, Canada

Biography: Dr. Luigi Benedicenti received his Laurea in Electrical Engineering and Ph.D. in Electrical and Computer Engineering from the University of Genoa, Italy. A full professor in the Faculty of Engineering and Applied Science, Benedicenti has served as Associate Dean in charge of Special Projects and as Associate Vice-President (Academic). He is a Professional Engineer licensed in Saskatchewan and a licensed Italian Engineer. He created the Software Systems Engineering Program at the University of Regina and became its founding Program Chair. He led the accreditation process for the new program and was subsequently entrusted with the supervision of data collection and computation for all Engineering programs.

Benedicenti has more than 120 international peer-reviewed publications and has supervised more than 50 graduate students. He is familiar with the Tri-council grant system, the European Union system and the United States National Science Foundation system, having participated in the process as an applicant, a mentor and a reviewer.

Benedicenti's current research is in three areas: Software Agents, Software Metrics, and New Media Technology. Research in Software Agents involves the characterization of software agents and the best applications for the agent model. Research in Software Metrics aims at characterizing agile development methods with a corresponding lightweight metrics program. Research in New Media Technology is directed towards enhancing the understanding of digital communications. A supporter of interdisciplinary work, Benedicenti has developed and supported numerous academic partnerships within the University and with international partners. Benedicenti believes in collaborative environments, clear responsibilities and a strong motivation for success.



Prof. Dr. Vitaliy Mezhuyev

Universiti Malaysia Pahang, Malaysia

Biography: Vitaliy Mezhuyev received BS and MS degrees in physics and informatics from Berdyansk State Pedagogical University (BSPU), Ukraine, in 1997. In 2002, he received a PhD in Physics Instruction from Kiev National Pedagogical University and, in 2012, a ScD in Information Technologies from Odessa National Technical University, Ukraine. From 2004 until 2014, he was Head of the Department of Informatics and Software Engineering at BSPU, Ukraine. Now he is Professor at Faculty of Computer Systems and Software Engineering in University Malaysia Pahang, Head of the Software Engineering Research Group.

During his carrier, Vitaliy Mezhuyev participated in the multiple international scientific and industrial projects, devoted to formal modelling, design and development of advanced software systems as network-centric real-time operating system; IDE for the automation of development of parallel real-time applications; tools for specification, verification and validation of software products; visual environment for metamaterials modelling and others.

His current research interests include formal methods, metamodeling, safety modelling and verification of hybrid software systems, and the design of cyber-physical systems.



Prof. Masahiro Fujita





The University of Tokyo, Japan

Biography: Masahiro Fujita received his Ph.D. in Information Engineering from the University of Tokyo in 1985 on his work on model checking of hardware designs by using logic programming languages. In 1985, he joined Fujitsu as a researcher and started to work on hardware automatic synthesis as well as formal verification methods and tools, including enhancements of BDD/SATbased techniques. From 1993 to 2000, he was director at Fujitsu Laboratories of America and headed a hardware formal verification group developing a formal verifier for real-life designs having more than several million gates. The developed tool has been used in production internally at Fujitsu and externally as well. Since March 2000, he has been a professor at VLSI Design and Education Center of the University of Tokyo. He has done innovative work in the areas of hardware verification, synthesis, testing, and software verification-mostly targeting embedded software and web-based programs. He has been involved in a Japanese governmental research project for dependable system designs and has developed a formal verifier for C programs that could be used for both hardware and embedded software designs. The tool is now under evaluation jointly with industry under governmental support. He has authored and co-authored 10 books, and has more than 200 publications. He has been involved as program and steering committee member in many prestigious conferences on CAD, VLSI designs, software engineering, and more. His current research interests include synthesis and verification in SoC (System on Chip), hardware/software co-designs targeting embedded systems, digital/analog co-designs, and formal analysis, verification, and synthesis of web-based programs and embedded programs.

Day 1, Thursday, Feb. 8, 2018 - Onsite Registration

<p>10:00am-12:00pm 14:00pm-16:00pm</p>	<p>Onsite Registration Arrival, Registration and Conference Materials Collection</p>
--	---

Day 2, Friday, Feb. 9, 2018 - Conference Day

09:00am-09:05am	Welcome Remarks	<p>Prof. Dr. Kamal Zuhairi Zamli Universiti Malaysia Pahang, Malaysia</p>
09:05am-09:10am	Opening Remarks	<p>Prof. Dr. Vitaliy Mezhuyev Universiti Malaysia Pahang, Malaysia</p>
09:10am-09:55am	<p>Keynote Speech 1</p> <p>Prof. Dr. Kamal Zuhairi Zamli (Universiti Malaysia Pahang, Malaysia)</p>	
09:55am-10:10am	Group Photo & Coffee Break	
10:10am-10:55am	<p>Keynote Speech 2</p> <p>Prof. Luigi Benedicenti (University of Regina, Canada)</p>	
10:55am-11:40am	<p>Keynote Speech 3</p> <p>Prof. Masahiro Fujita (The University of Tokyo, Japan)</p>	
11:40am-12:25pm	<p>Keynote Speech 4</p> <p>Prof. Dr. Vitaliy Mezhuyev (Universiti Malaysia Pahang, Malaysia)</p>	
12:30pm-13:30pm	Lunch Time	
Afternoon Arrangement		
13:30pm-15:30pm	<i>Parallel Sessions</i>	
15:30pm-15:45pm	Coffee Break	
15:45pm-18:00pm	<i>Parallel Sessions</i>	
18:00pm-19:30pm	Dinner Time	

Day 3, Saturday, Feb. 10, 2018 – Academic Visiting

If you'd like to participate in, please contact conference secretary and register before Jan. 25!

Conference Venue

Universiti Malaysia Pahang



Lebuhraya Tun Razak

26300 Gambang

Kuantan, Pahang Darul Makmur.

More information will be announced soon.

