

February 23-25, 2019

Arts Complex, The University of Western Australia

Perth, Australia



Address: 35 Stirling Highway, Perth WA 6009 Australia

<https://www.uwa.edu.au/>

2019 11th International Conference on Computer and Automation Engineering

with workshop

2019 the 3rd International Conference on Virtual and Augmented Reality Simulations

Hosted in



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Welcome Message

Dear Participants,

Welcome to 2019 11th International Conference on Computer and Automation Engineering (ICCAE 2019) together with the workshop 2019 the 3rd International Conference on Virtual and Augmented Reality Simulations (ICVARS 2019)! The objective of these two conferences is to provide a premium platform to bring together researchers, scientists, engineers, academics and graduate students in the fields of computer and automation engineering, virtual and augmented reality simulations 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 IEEE Fellow, Prof Saman K. Halgamuge, SPIE Fellow, Prof. Marek Ogiela, Prof. Manolya Kavakli-Thorne, Prof. Mohammed Bennamoun, Prof. Zabih F. Ghassemlooy and other distinguished scholars for attending or sharing their deep insights on future challenges and trends in this related fields.

We would like to thank the committee members for their hard work in making sure a smooth running of ICCAE and ICVARS 2019. Many thanks to the reviewers for their excellent job to maintain the academic quality and scholarship. Special thanks is expressed to the University of Western Australia for venue support.

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

Conference Organizing Committees

Instructions

Registration Guide:

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

Checklist:

1 receipt, 1 name card, 1 printed conference abstract, 1 lunch coupon, 1 dinner coupon, 1 conference bag, 1 USB stick (paper collection).

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:

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

Notice:

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

*Certificate of Presentation 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.

Contact:

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Agenda Overview

Saturday, Feb. 23, 2019

10:00-17:00 **Participants check-in & Materials Collection—Arts Room 4 at Ground Floor**

Sunday, Feb. 24, 2019

Venue: Arts Room 4 at Ground Floor

08:50-09:00 **Opening Remark**

Prof. Manolya Kavakli-Thorne, Macquarie University, Australia

Speaker I

09:00-09:40 **IEEE Fellow, Prof Saman K. Halgamuge, University of Melbourne, Australia**

Speech Title: Improving Learning in a Connected Environment

Speaker II

09:40-10:20 **SPIE Fellow, Prof. Marek Ogiela, AGH University of Science and Technology, Poland**

Speech Title: Visual Perception, Cognitive Skills and Behavioral Features in Security Protocols and Cryptography

10:20-10:50 ***Group Photo and Coffee Break—Foyer***

Speaker III

10:50-11:30 **Prof. Mohammed Bennamoun, The University of Western Australia, Australia**

Speech Title: Computer Vision & Automation

Speaker IV

11:30-12:10 **Prof. Manolya Kavakli-Thorne, Macquarie University, Australia**

Speech Title: Virtual & Augmented Reality Technology in Computer Games

12:10-13:30 ***Lunch at Restaurant***

Speaker V

13:30-14:00 **Prof. Zabih F. Ghassemlooy, Northumbria University, UK**

Speech Title: Optical Camera and Visible Light Communications

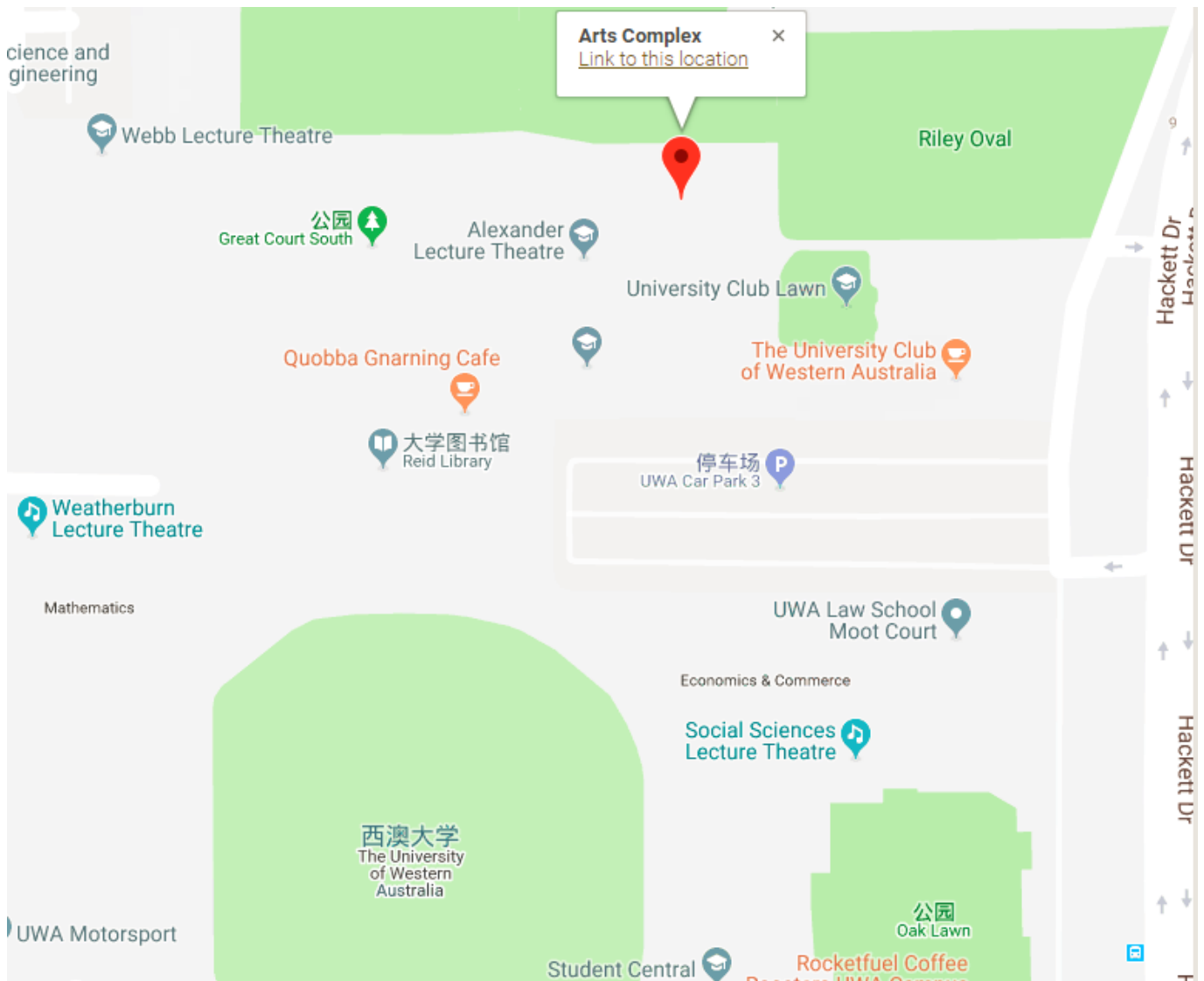
Parallel Sessions

- 14:00—15:45** **Session 1: Virtual Reality**
(Arts Room 4 at Ground Floor)
Presentations: AE0014-A AE0021 AE0009 AE0015 AE0020 AE0006 AE0016
- 14:00—15:45** **Session 2: Image Processing**
(Arts Room 5 at Ground Floor)
Presentations: AE021 AE003 AE068 AE0012 AE2001-A AE008 AE020
- 14:00—15:45** **Session 3: Information Network and Security**
(Arts Room 6 at Ground Floor)
Presentations: AE007 AE032 AE037 AE024 AE0003 AE014 AE046
- 15:45—16:00** *Coffee Break*
- 16:00—17:30** **Session 4: Advanced Information Systems and Technologies**
(Arts Room 4 at Ground Floor)
Presentations: AE036 AE1003 AE006 AE041 AE042 AE072
- 16:00—18:00** **Session 5: Computer theory and application**
(Arts Room 5 at Ground Floor)
Presentations: AE031-A AE034 AE048 AE056 AE064 AE065 AE038 AE066
- 16:00—18:00** **Session 6: Modern Electronic Systems and Signal Processing**
(Arts Room 6 at Ground Floor)
Presentations: AE004 AE049-A AE035 AE005 AE067-A AE059 AE011 AE060
- 16:00—17:30** **Poster Session**
- 18:00—20:00** *Dinner at Restaurant*

Monday, Feb. 25, 2019

- 09:00-18:00** **One-day tour**
Onsite payment for tour is not acceptable. (Registration deadline for tour is Jan. 20, 2019)

Venue Map



More info can be found at:

http://www.web.uwa.edu.au/_data/assets/pdf_file/0008/3373442/Crawley-campus-map-alphabetical-2018.pdf