



Curtin University

Sarawak Malaysia



Curtin University

CURTIN SARAWAK
RESEARCH INSTITUTE

INTERNATIONAL CONFERENCE ON THE ANALYSIS AND MATHEMATICAL APPLICATIONS IN ENGINEERING AND SCIENCE

Dates : 19-22 January 2014 Venue : Curtin University Sarawak, Miri, Malaysia

Introduction

Mathematical analysis and modeling techniques are applied in diverse research areas of engineering, business and economics, medicine and science. From predicting rocket trajectories to managing biological population to operating processing plants and autonomous vehicles to predicting material behaviour, mathematical tools allow engineers and scientists to develop solutions to problems of increasing complexities.

Curtin Sarawak Research Institute (CSRI) and Curtin University Sarawak are proud to host the inaugural International Conference on Analysis and Mathematical Applications in Engineering and Science. The aim of the conference is to provide a forum for engineers, applied mathematicians, scientists, economists and practitioners to exchange ideas and approaches, to present research findings and state-of-the-art solutions, to share experiences on potential and limits and new directions in research and developments, on all issues and topics related to analysis and mathematical applications in Engineering and Science.

Topics of Interest

The conference will cover a spectrum of mathematical analysis and applications in engineering and science with particular focus on

- Optimization techniques and applications
- Engineering optimization
- Control theory and applications
- Optimal process control
- Dynamic systems
- Modeling and numerical methods
- Difference, differential and integral equations
- Numerical linear algebra
- Computational statistics
- Management and analysis in biological systems
- Signal and image processing
- Inverse analysis
- Economic analysis
- Mathematical biology

Keynote Speakers



Joseph Frédéric Bonnans
Inria, Ecole Polytechnic Paris
<http://www.cmap.polytechnique.fr/~bonnans/>



Helmut Maurer
Institut für Numerische und
Angewandte Mathematik,
Universitaet Muenster Einsteinstr
<http://www.math.uni-muenster.de/num/maurer/>

Plenary Speakers



Lou Caccetta
Curtin University Australia
<http://maths.curtin.edu.au/people/staff.cfm/L.Caccetta>



David Carmichael
University of New South Wales
http://www.civeng.unsw.edu.au/staff/david_carmichael



Jerzy Filar
Flinders University
<http://flinders.edu.au/people/Jerzy.Filar>



Ku Ruhana
Ku Mahamud
Utara University Malaysia
<http://staf.uum.edu.my/ruhana/>



Ying Tan
University of Melbourne
http://www.mech.unimelb.edu.au/people/staff.php?person_ID=28203



Song Wang
University of
Western Australia
<http://www.uwa.edu.au/people/song.wang>

Invitation to Authors

We are now inviting submission of papers or extended abstracts of length no more than 10 pages. The manuscripts must be written in English and formatted according to the Word or Latex templates provided at http://csri.curtin.edu.my/?page_id=48.

Submission is made via the web at
<https://www.easychair.org/conferences/?conf=amaes2014>.

If you have not registered with Easychair before, you will first have to register an account with Easychair for submission:

- At the Easychair website, click "sign up for an account". Follow the subsequent instructions on opening the new account.
- After the new account is open, proceed to the sign-in page at <https://www.easychair.org/conferences/?conf=amaes2014>.
- After signing in, click 'New Submission' from the top menu to upload your extended abstract. Complete the upload process by clicking 'Submit Paper'.

All received manuscripts will be reviewed by the international Program Committee. All accepted manuscripts will be published in the CD-ROM proceedings.

Special Issues of Journals

Authors of accepted manuscripts are invited to submit full length papers for consideration for publication in Special Issues of the following journals. All submissions will be peer-reviewed by independent reviewers.

(i) International Journal of Systems, Control and Communications
<http://www.inderscience.com/jhome.php?jcode=ijscc>

(ii) Communications in Optimization Theory
<http://scik.org/index.php/cot>

(iii) Global Journal of Mathematical Sciences
<http://www.ifnaworld.org/ojs/index.php/GJMS>

(iv) International Journal of Environmental Sciences
<http://www.ifnaworld.org/ojs/index.php/IJES>

Important Dates

Submission of manuscripts: 31st August 2013
Final extended manuscripts: 31st October 2013
Submission of full paper to Special Issues of Journals: 30th April 2014

Registration Fees

Full registration RM800 (USD\$270)
Student registration RM500 (USD\$170)

Registration includes

- Lunch and tea-breaks
- One ticket for the conference banquet
- One ticket for a day tour to the Niah caves or participation in traditional activities in Miri on 22nd January

Organising Committee

Co-Chairs

Aaron Suk Meng Goh, Curtin Sarawak Research Institute
Bean San Goh, Curtin Sarawak Research Institute

Members

Fudziah Ismail, Universiti Putra Malaysia
Ryan Loxton, Curtin University Australia
Zurni B Omar, Universiti Utara Malaysia
Yalcin Kaya, University of South Australia
Dilmurat M. Azimov, University of Hawaii
Sharipah Soaad Syed Yahaya, Universiti Utara Malaysia
Wah June Leong, Universiti Putra Malaysia
Dale Macdonald, Midwestern State University
Gareth King Hann Lim, Curtin University Sarawak
Jobrun Nandong, Curtin University Sarawak
Amandeep Singh Sidhu, Curtin Sarawak Research Institute

Program Committee

Co-Chairs

Kok Lay Teo, Curtin University Australia
Yudi Samyudia, Curtin University Sarawak

Members

Yanqin Bai, Shanghai University
Bing Sheng He, Nanjing University
Suzilah Ismail, Universiti Utara Malaysia
Joaquim Judice, University of Coimbra
George Leitmann, University of California, Berkeley
Shengjie Li, Chongqing University
Cheng Chew Lim, University of Adelaide
Wanquan Liu, Curtin University Australia
Kai Ling Mak, University of Hong Kong
Sing Kiong Nguang, Auckland University
Shaharuddin Salleh, Universiti Teknologi Malaysia
Jie Sun, National University of Singapore
Xiaoling Sun, Fudan University, Shanghai
You-Gan Wang, University of Queensland
Yong Wu, Curtin University Australia
Honglei Xu, Curtin University Australia
Xinmin Yang, Chongqing Normal University
Cedric Yiu, The Hong Kong Polytechnic University
Zhang Yi, Petroleum University of China, Beijing
Wuyi Yue, Konan University, Kobe City

Local Committee

Florence Singa, Curtin University Sarawak
Lenin Gopal, Curtin University Sarawak
Mesfin Getu Woldetensay, Curtin University Sarawak

Travel to Miri, Sarawak

International delegates can travel to (i) Kuala Lumpur or (ii) Singapore or (iii) Kota Kinabalu and then take a local flight to Miri in Sarawak on Borneo Island. Please contact us for any assistance with visas and hotel bookings.

Co-organised by



Supported by



Website : http://csri.curtin.edu.my/?page_id=31
Email : AMAES@curtin.edu.my
Phone : +60 85 443 983
Fax : +60 85 443 921