IEEE CIS Report (Victoria Chapter)

IEEE CIS Guest Lecture
Prof Hisao Ishibuchi (IEEE Fellow, IEEE Distinguished Lecturer (DLP))

Speaker:	Prof. Hisao Ishibuchi (IEEE Fellow, IEEE Distinguished Lecturer (DLP))
Hosted Chapter:	IEEE Computational Intelligence Society (CIS), Victorian Section, Australia
Coordinator:	Malka N. Halgamuge, Chair VIC CIS (malka_nisha@ieee.org)
Date of Event:	Monday 30th October 2023
Time:	3.00 – 4.00 pm (AEST)
Number of Participants:	61 (Online), 21 (Face-to-face)
VIC CIS Chapter website:	https://r10.ieee.org/victorian-cis
Title:	Fair Performance Comparison of Evolutionary Multi-Objective Optimization Algorithms

Abstract:

Evolutionary multi-objective optimization (EMO) has been a very active research area in recent years. Almost every year, new EMO algorithms are proposed. When a new EMO algorithm is proposed, computational experiments are conducted in order to compare its performance with existing algorithms. Then, experimental results are summarized and reported as a number of tables together with statistical significance test results. Those results usually show higher performance of the new algorithm than existing algorithms. However, fair performance comparison of different EMO algorithms is not easy since the evaluated performance of each algorithm usually strongly depends on experimental settings. In this seminar, we focus on the settings related to the following four issues: (i) termination condition specification, (ii) population size specification, (iii) performance indicator choice, (iv) test problem choice. First, we clearly demonstrate that each of these issues has strong effects on performance comparison results. Then, we discuss how to handle each of these issues for fair performance comparison. These discussions aim to encourage the future development of the EMO research field without focusing too much on the development of overly-specialized new algorithms in a specific setting. Finally, we suggest some promising future research topics related to each issue.

Biography:

Hisao Ishibuchi is a Chair Professor at Southern University of Science and Technology, China. He was the IEEE Computational Intelligence Society (CIS) Vice-President for Technical Activities in 2010-2013 and the Editor-in-Chief of IEEE Computational Intelligence Magazine in 2014-2019. Currently he is an IEEE CIS Administrative Committee Member, an IEEE CIS Distinguished Lecturer, and an Associate Editor of several journals such as IEEE Transactions on Cybernetics and ACM Computing Surveys. He is also General Chair of IEEE WCCI 2014. He received a Fuzzy Systems Pioneer Award from IEEE CIS in

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2019, an Outstanding Paper Award from IEEE Transactions on Evolutionary Computation in 2020, and Best Paper Awards from FUZZ-IEEE 2009, 2011, EMO 2019, and GECCO 2004, 2017, 2018, 2020, 2021. He also received a JSPS prize in 2007. He is an IEEE Fellow.

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Welcome, Malka Halgamuge

IEEE VIC CIS TALK ON FAIR PERFORMANCE COMPARISON OF EVOLUTIONARY MULTI-OBJECTIVE OPTIMIZATION ALGORITHMS

#Evolutionary | #ieee | #IEEECIS | #IEEEDistinguishedLecturers | #IEEEFellow | #CIS

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IEEE VIC CIS Chapter

Category: Distinguished Lecturer Program (DLP)

Title: Fair Performance Comparison of Evolutionary Multi-Objective Optimization Algorithms
Speaker: Prof Hisao Ishibuchi (IEEE Distinguished Speaker, IEEE Fellow), Southern University of Science and Technology, Shenzhen, China
Location: RMIT University and Virtual (Zoom) – refreshment starts at 2.30 pm
Time: 3.00 – 4.00 pm (AEST) Monday 30th October 2023
Register: https://events.vtools.ieee.org/m/373967
For further details, contact: Malka N. Halgamuge, Chair VIC CIS (malka_nisha@ieee.org)
VIC CIS Chapter website: https://r10.ieee.org/victorian-cis

This is a part of the IEEE Victorian Computational Intelligence Society (CIS) series of talks. The online delivery is kindly hosted by IEEE Victorian Section.

IEEE Computational Intelligence Society (CIS), Victorian Section, Australia

Fair Performance Comparison of Evolutionary Multi-Objective Optimization Algorithms

IEEE CIS Distinguished Lecturer Program (DLP)

Professor Hisao Ishibuchi
Southern University of Science and Technology, Shenzhen, China, IEEE Distinguished Speaker, IEEE Fellow

Event Contact
Malka N. Halgamuge, Chair VIC CIS
Email: malka_nisha@ieee.org

Location: RMIT University and Virtual (Zoom)

Time: 3.00 – 4.00 pm (AEST)
Monday 30th October 2023

Register: https://events.vtools.ieee.org/m/373967

Refreshment starts at 2.30 pm

⏰ DATE AND TIME

Date: **30 Oct 2023**

Time: **03:00 PM to 04:00 PM**

All times are (UTC+10:00) Canberra

📅 Add Event to Calendar
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📍 LOCATION

Location: RMIT University (Room 80.8.12) and Virtual (Zoom) – refreshment starts at 2.30 pm

Zoom Link:

https://us06web.zoom.us/j/84565624823?pwd=aZSVbXSOKbXcymMtwkmUCjCJkIdhLV.

RMIT University

Melbourne, Victoria

Australia

Building: 80

✉ HOSTS

Victorian Section Chapter,CIS11

Contact Event Host

Co-sponsored by Swinburne University of Technology

Co-sponsored by IEEE VIC CIS Chapter; IEEE VIC Section

🏷 REGISTRATION

Starts **15 September 2023 08:21 AM**

Ends **30 October 2023 03:21 PM**

All times are (UTC+10:00) Canberra

No Admission Charge

Registration Closed

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14. Category: Distinguished Lecturer Program (DLP)

Title: Fair Performance Comparison of Evolutionary Multi-Objective Optimization Algorithms
Speaker: Prof Hisao Ishibuchi (IEEE Distinguished Speaker, IEEE Fellow), Southern University of Science and Technology, Shenzhen, China
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Time: 3.00 – 4.00 pm (AEST) Monday 30th October 2023
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For further details, contact: Malka N. Halgamuge, Chair VIC CIS (malka_nisha@ieee.org)
VIC CIS Chapter website: https://r10.ieee.org/victorian-cis

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IEEE VIC CIS Talk on Fair Performance Comparison of Evolutionary Multi-Objective Optimization Algorithms

📋 Registrants

Total number of registrants: 124

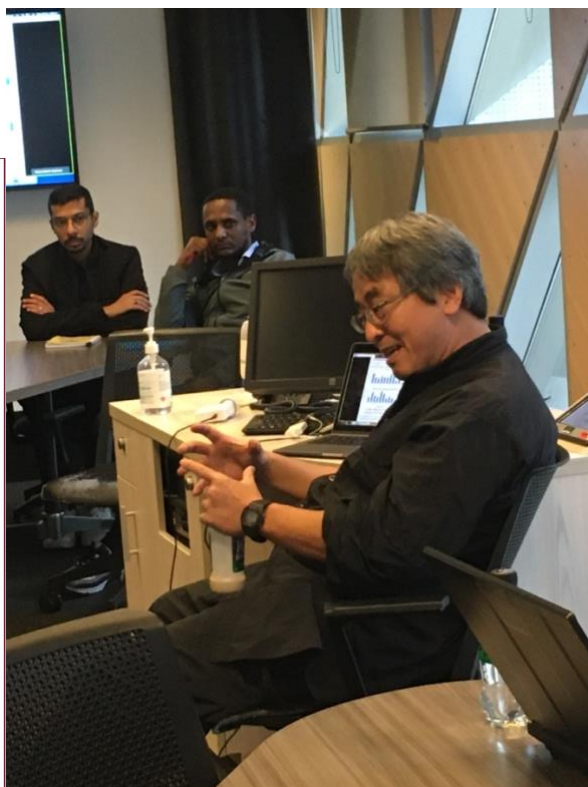| Registrant	Type	Status	Options	Payment Status
Filter: All	Filter: All	Filter: All		Filter: All
Abbass, Hussein	Virtual	Registered	Edit Cancel	No registration fee
Abdella, Juhar	In-Person	Registered	Edit Cancel	No registration fee
Aguilar, Luis	Virtual	Registered	Edit Cancel	No registration fee
Akbari, Saeed	Virtual	Registered	Edit Cancel	No registration fee
Almeida, Jose	Virtual	Registered	Edit Cancel	No registration fee
Alsaedi, Abdullah	In-Person	Registered	Edit Cancel	No registration fee
Aranha, Claus	Virtual	Registered	Edit Cancel	No registration fee

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Reporting

A report has been filed for

CH10305 - Victorian Section Chapter,CIS11

by **Malka Halgamuge** at **01 Nov 2023 09:49 PM**.

IEEE Attended: 71
Guests Attended: 11

This report can be removed, if necessary for adjustments, until 08 Nov 2023 09:49 PM, in the Attendance area of the event edit page.
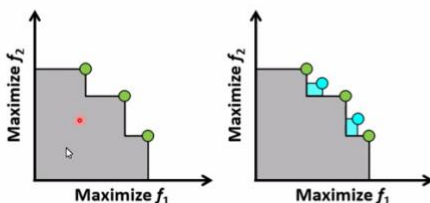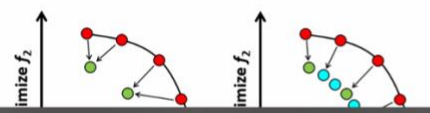
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15:33

Close   **Participants (57)**

🔍 Search

KC   Ken Chen (me)

MN   Malka N. Halgamuge (Host)   REC 🎤 🎥

9   998027

AM   Andrés Muñoz

     Andy Song

BM   Behzad Moradi

     Belinda HUANG

CG   cheng gong

C   chinh

     Claus Aranha

     Daniel

Invite

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