



Event Co-financed by:

- North Eastern Council, Sillong, Govt. of India
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- IEEE CIS HQ
- INSA, New Delhi

Department of Computer Science and Engineering, Assam University, Silchar, India

and

IEEE Computational Intelligence Society, Kolkata Chapter

Jointly present

2nd IEEE CIS Summer School

On



“Contemporary Advancement in Multi-objective Optimization (CAMOO)”

August 16-21, 2024

Objectives: Multi-objective Optimization (MOO), even though well explored remains challenging even today because of so many aspects of it are still unattended. This endeavor is going to ensure coverage of latest research initiatives being undertaken by the galaxy of resource persons in this domain throughout the globe under one canopy.

Key Focus: Global Participation, Academic Exchange, and “Viksit Bharat Sankalp Yatra” - Vision for a developed India by 2047.

													
Prof. Kalyanmoy Deb FIEEE, Michigan State University, USA. Title: Enhancing Performance of Evolutionary Multi-objective Optimization Using Machine Learning.	Prof. Hisao Ishibuchi FIEEE, Southern University of Science and Technology, China. Title: Fair Performance Comparison of Multi-objective Evolutionary Algorithms.	Prof. Carlos Coello Coello FIEEE, CINVESTAV-IPN, Mexico. Title: What is Missing in Evolutionary Optimization?	Prof. Carlos M. Fonseca University of Coimbra, Portugal. Title: Preference articulation and performance evaluation in evolutionary multi-objective optimization.	Prof. Günter Rudolph TU Dortmund University Germany. Title: Evolutionary Multi-objective Optimization over Unbounded Integer Space.	Prof. Jun Zhang FIEEE, Hanyang University, South Korea. Title: Matrix based Evolutionary Computation.	Prof. Swagatam Das Indian Statistical Institute Kolkata, India. Title: Evolutionary Computation on the Transformative Landscape of Large Language Models: Perspectives and Future Challenges.	Prof. Ujjwal Maulik FIEEE, Jadavpur University, India. Title: Evolutionary Single and Multi-objective Clustering.	Prof. Ong Yew Soon FIEEE, Nanyang Technological University, Singapore. Title: Transfer and Multitask Optimization.	Prof. Andries Engelbrecht Stellenbosch University, South Africa. Title: Recent Advances in Particle Swarm Optimization for Multi-objective and Many-objective Optimization.	Prof. Hiroyuki Sato The University of Electro-communications, Japan. Title: Evolutionary Many-objective optimization.	Prof. Ankur Sinha Indian Institute of Management (IIM) Ahmedabad, Gujarat, India. Title: Bilevel Optimization: Methods and Applications.	Prof. Qingfu Zhang FIEEE, City University of Hong Kong, Hong Kong. Title: Recent Development in Decomposition Based Multi-objective Evolutionary Algorithms.	Prof. Mille Pant IIT Roorkee, India. Title: Multi Objective Optimization for Combinatorial Optimization Problems.

Registration information: <https://events.vtools.ieee.org/event/register/421454>. Registration Deadline: 31st July, 2024 9th August 2024 (Firm)

Registration :

The capacity of the prospective audience being limited, early registration is encouraged to ensure participation on a first-come-first-serve basis.

Accommodation :

Limited accommodation can be arranged on first-come-first-serve basis in the University Guest House and Hostels in the campus purely on a payment basis as applicable.

Registration Fees:

General	IEEE Member	Scholar/ Student
Rs. 2000/100USD	Rs. 1500/80 USD	Nil

Account details:

Institute Account Name	Account Number	Bank Name	Branch Address	IFSC Code	Swift Code
Assam University Project AC II	20050110035450	UCO Bank	Assam University Branch, Dorgakona-788011	UCBA0002005	UCBAINBB128

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Contact: Dept of Computer Science & Engineering, Assam University, Silchar, India.

Web: summerschool.aus@gmail.com/ www.aus.ac.in/ <https://ieeeciskolkata.in/> 9401658045 (WA only).



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IEEE CIS Kolkata Chapter
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16.08.2024	17.08.2024		18.08.2024		19.08.2024		20.08.2024		21.08.2024
Lecture 1: Enhancing Performance of Evolutionary Multi-objective Optimization Using Machine Learning Speaker: Prof. Kalyanmoy Deb, FIEEE,Michigan State University, USA Session Chair: Prof. Paramartha Dutta,Visvabharati University, India	Lecture 3: Evolutionary Multi-objective Optimization over Unbounded Integer Space Speaker: Prof. Günter Rudolph,TU Dortmund University Germany Session Chair: Prof. Kalyanmoy Deb, FIEEE,Michigan State University, USA	Lecture 4: MOO for Bioinformatics Speaker: Prof. Anirban Mukhopadhyay, University of Kalyani, India Session Chair: Dr. Kartick Ch. Mandal, JU, India	Lecture 6: Towards Evolutionary Multi-Objective Machine Learning: Challenges and Promises Speaker: Prof. Carlos Coello Coello, FIEEE, CINVESTAV-IPN, Mexico Session Chair: Prof. Anirban Mukhopadhyay, University of Kalyani, India	Lecture 7: Evolutionary Single and Multi-objective Clustering Speaker: Prof. Ujjwal Maulik, FIEEE, Jadavpur University, India Session Chair: Prof. Carlos M. Fonseca, University of Coimbra, Portugal	Lecture 10:Recent Advances in Particle Swarm Optimization for Multi-objective and Many-objective Optimization Speaker: Prof. Andries Engelbrecht, Stellenbosch University, South Africa Session Chair: Prof. Günter Rudolph, TU Dortmund University Germany	Lecture 11:Preference articulation and performance evaluation in evolutionary Multi-objective optimization Speaker: Prof. Carlos M. Fonseca, University of Coimbra, Portugal Session Chair: Prof. Andries Engelbrecht, Stellenbosch University, South Africa	Lecture 17:Transfer and Multitask Optimization Speaker: Prof. Ong Yew Soon, FIEEE, Nanyang Technological University, Singapore Session Chair: Prof.Paramartha Dutta,Visvabharati University, India	Lecture 15:Recent Development in Decomposition Based Multi-objective Evolutionary Algorithms Speaker: Prof. Qingfu Zhang, FIEEE, City University of Hong Kong, Hong Kong Session Chair: Prof. Pankaj Kumar Deva Sharma, Assam University Silchar, India	Field Visit
									10 am – 1 pm
									Assessment Test
									2 pm – 3 pm
10 am - 1 pm	10 am – 12 noon	12 noon – 1:30 pm	10 am – 11:30 am	11:30 am – 1 pm	10 am-12 noon	12 pm – 2 pm	10 am-12 noon	12 noon–2 pm	
Lecture 2:Fair Performance Comparison of Multi-objective Evolutionary Algorithms Speaker: Prof. Hisao Ishibuchi, FIEEE, Southern University of Science and Technology, China Session Chair: Prof. Ankur Sinha, IIM Ahmedabad, India	Lecture 5:Bilevel Optimization: Methods & Applications Speaker: Prof. Ankur Sinha, Indian Institute of Management (IIM) Ahmedabad, Gujarat, India Session Chair: Prof. Hisao Ishibuchi, FIEEE, Southern University of Science and Technology, China		Lecture 8: Evolutionary Many-objective optimization Speaker: Prof. Hiroyuki Sato, The University of Electro-communications, Japan Session Chair: Prof. Hisao Ishibuchi, FIEEE, Southern University of Science and Technology, China		Lecture 12:Multi-objective Optimization for Combinatorial Optimization Problems Speaker: Prof. Mille Pant, IIT Roorkee, India Session Chair: Prof. Paramartha Dutta,Visvabharati University, India		Lecture 16: Matrix-based Evolutionary Computation Speaker: Prof. Jun Zhang, FIEEE, Hanyang University, South Korea Session Chair: Prof. Sudipta Roy, Assam University Silchar, India		Feedback and Discussion:
			Time: 2 pm – 3:30 pm		3 pm- 5 pm				3 pm – 4 pm
			Lecture 9: Large scale machine learning algorithms Speaker: Prof. M. Tanveer, IIT Indore, India Session Chair: Prof. Ujjwal Maulik, FIEEE, Jadavpur University, India		Lecture 13: Fuzzy rule-based classifier design: Accuracy, interpretability, and explanation ability Speaker: Prof. Hisao Ishibuchi, FIEEE, Southern University of Science and Technology, China Session Chair: Prof. Carlos M. Fonseca, University of Coimbra, Portugal				Valedictory Session
									4 pm – 5 pm
2 pm-5pm	2:30 pm- 5:30 pm		3:30 pm – 5 pm		5pm-7pm		3 pm – 5 pm		
Cultural Event & Dinner (6 pm)			Cultural Event & Dinner (6 pm)		-				