

Report on

IEEE Computational Intelligence Society

Distinguished Lecture Programme

An IEEE Computational Intelligence Society Distinguished Lecture Programme was hosted by the Department of Computer and System Sciences, Visva-Bharati on 14th March, 2021. The event brought together 39 faculty members, researchers, and students from all over India to participate in the said event. The participants were from science and engineering background. This event was hosted in Zoom platform. The event began with opening remarks by Professor Paramartha Datta, Department of Computer and System Sciences, Visva-Bharati on the presence of other faculty members of the department. Prof. Sushmita Mitra, ISI Kolkata and Chair of IEEE Kolkata section welcomed all the participants. Prof. Tandra Pal, NIT Durgapur and Chair of IEEE CIS Kolkata chapter introduced the honorable resource person Prof. Mengjie Zhang from University of Wellington.

Details of the technical sessions can be found in following table.

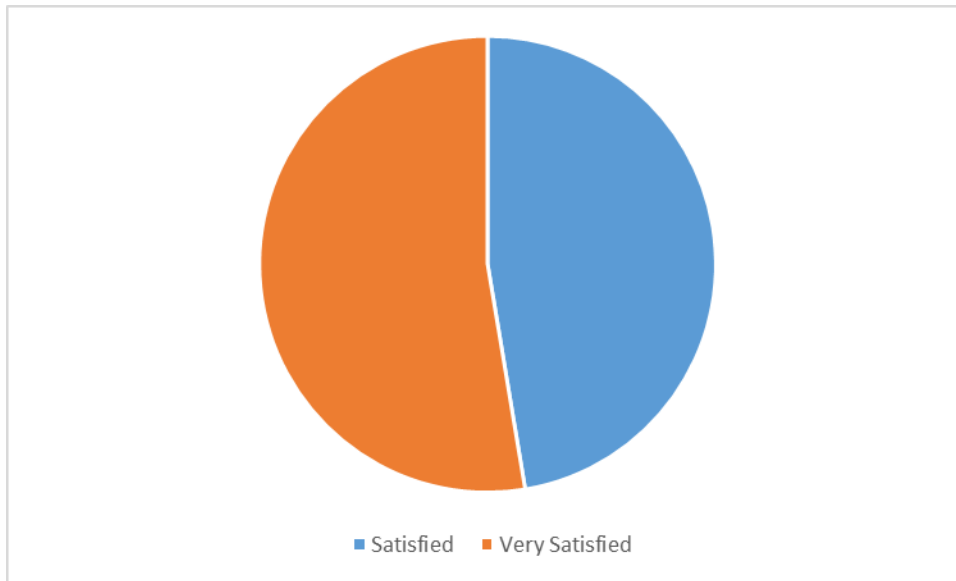
Day	Session 1 (10 AM to 12.30 PM)	
	Title	Speaker
14th March, 2021	Evolutionary Machine Learning	Prof. Mengjie Zhang of University of Wellington

The event was ended with a *vote of thanks* delivered by Dr. Indrajit Pan, Vice-Chair of IEEE CIS Kolkata chapter.

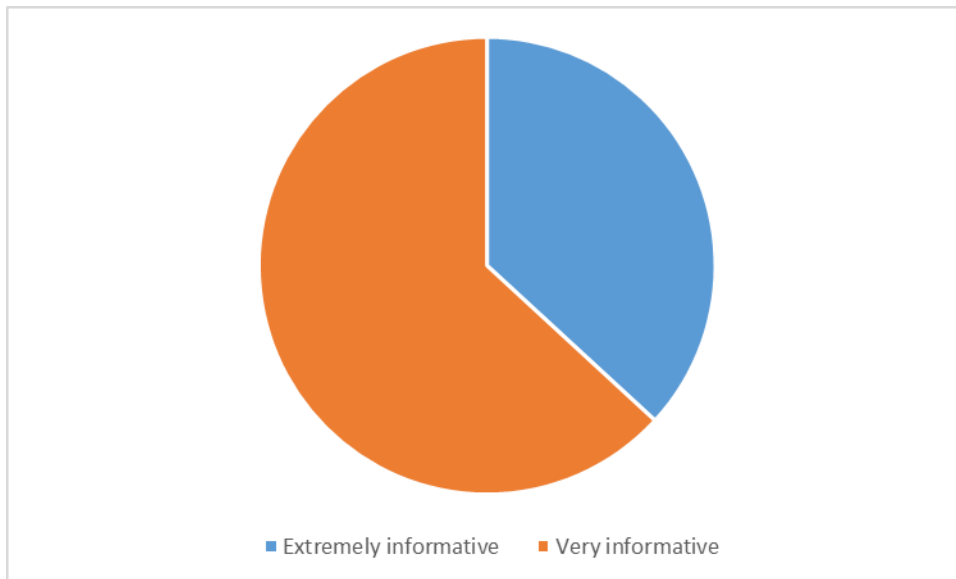
The event was coordinated by Mr. Debaditya Barman, Assistant Professor, Department of Computer and System Sciences, Visva-Bharati. We have received very positive feedbacks from the participants. Feedbacks have been summarized in the following section.

Feedbacks from the participants

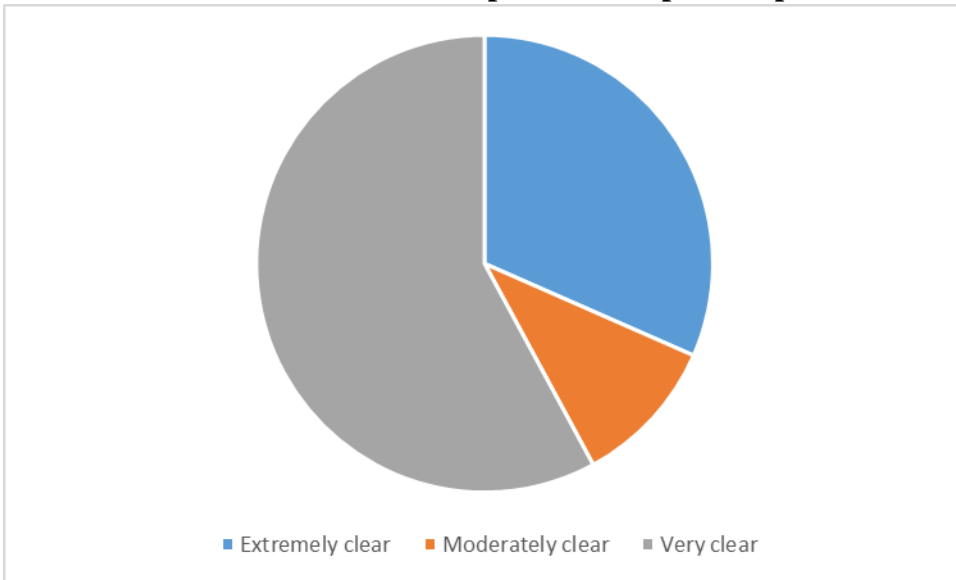
1. Overall how satisfied were you with this webinar?



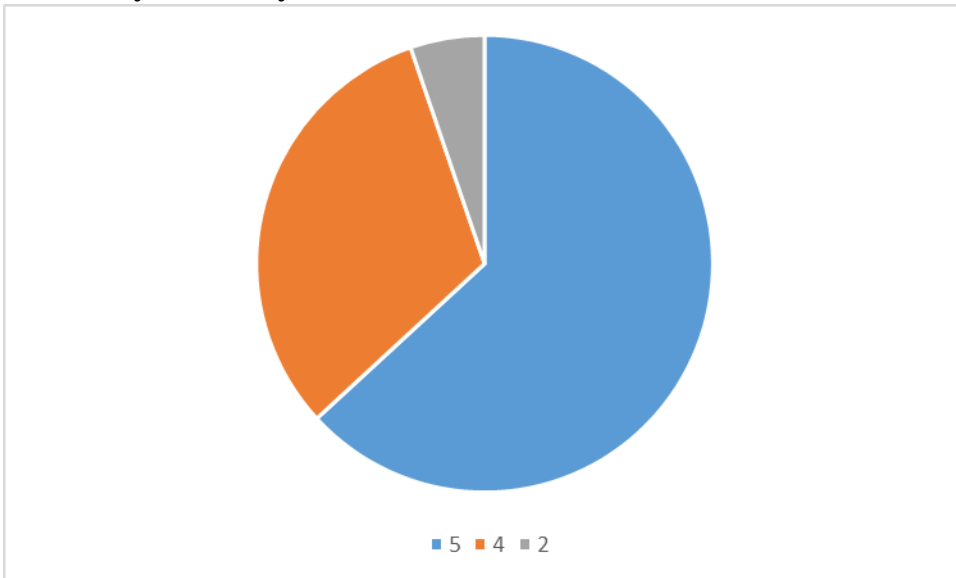
2. How informative did you find the webinar?



3. How clear were the ideas and concepts resource persons presented?



4. How likely is it that you would recommend this event to a friend or colleague?



Some screenshots of the event

Zoom Meeting

Recording

Debaditya | Mengjie | Hera Shaheen | Sangita Singha | Ravi

Evolutionary Machine Learning

Two categories:

- Evolutionary learning – A narrow view:
 - EC = Evolutionary optimisation + evolutionary learning
 - EL: EC methods used for learning directly --- GP, LCS, AIS, ...
- EC for Machine Learning – A broad view:
 - Narrow view +
 - Any EC method for any aspect of ML tasks, including automatically finding/optimising the parameter values

Harith Al-Sahaf, Ying Bi, Qi Chen, Andrew Lensen, Yi Mei, Yanan Sun, Binh Tran, Bing Xue & Mengjie Zhang (2019) A survey on evolutionary machine learning, Journal of the Royal Society of New Zealand, 49:2, 205-228, DOI: 10.1080/03036758.2019.1609052
"What can artificial intelligence learn from nature?", Highlight on Royal Society Te Apārangi, Issue #1046. <https://royalsocietypublishing.org/doi/full/10.1098/rsos.190466>

Participants (33)

Name	Audio	Video
AJ	On	Off
A	On	Off
A	On	Off
AM	On	Off
CM	On	Off
DG	On	Off
H	On	Off
H	On	Off
J	On	Off
KD	On	Off
MD	On	Off
MG	On	Off
NK	On	Off

10:33 AM 3/14/2021

Zoom Meeting

Recording

Debaditya | Mengjie | Hera Shaheen | TANUSHREE DAS | Dr. Sadhan Kum...

Evolutionary computation for Classification and Feature Manipulation

- Classifier Construction
 - GAs, PSO: vector representation
 - GP: tree, graph, grid, grammar, other programs
 - LCS: XCS vs UCS, Code fragment, offline vs online
 - AIS: different classification
 - Unbalanced data/class imbalance
 - Missing values: imputation, direct classifiers
- Feature selection and construction

Participants (30)

Name	Audio	Video
D	On	Off
SUSANTA RAY (Host)	On	Off
M	On	Off
JP	On	Off
A	On	Off
AM	On	Off
AM	On	Off
CM	On	Off
DG	On	Off
DS	On	Off
Dr. Indrajit Pan	On	Off

10:33 AM 3/14/2021