

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 22nd November, 2020. The event brought together 40 faculty members, researchers, and students from all over India as well as abroad to participate in the said event. The participants were from science and engineering background. This event was hosted in Cisco Webex platform. The event began with opening remarks by the Chair of IEEE Computational Intelligence Society, Kolkata chapter, Professor Paramartha Datta on the presence of other faculty members of the department.

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

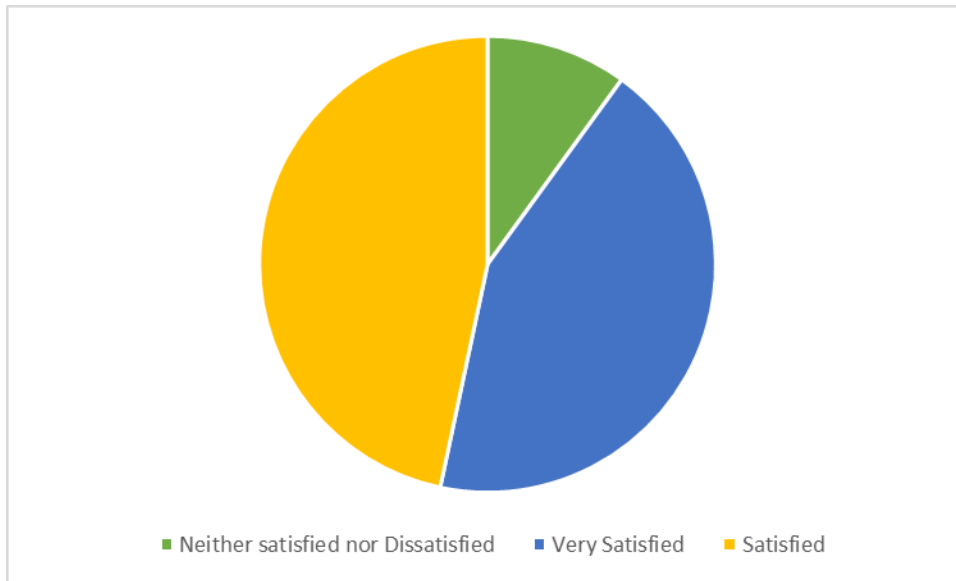
Day	Session 1 (7 PM to 9.00 PM)	
	Title	Speaker
22 nd November, 2020	How big is too big? Clustering in (static) BIG DATA with the Fantastic 4	Prof. James C. Bezdek, The University of Melbourne

The event was ended with a short valedictory session.

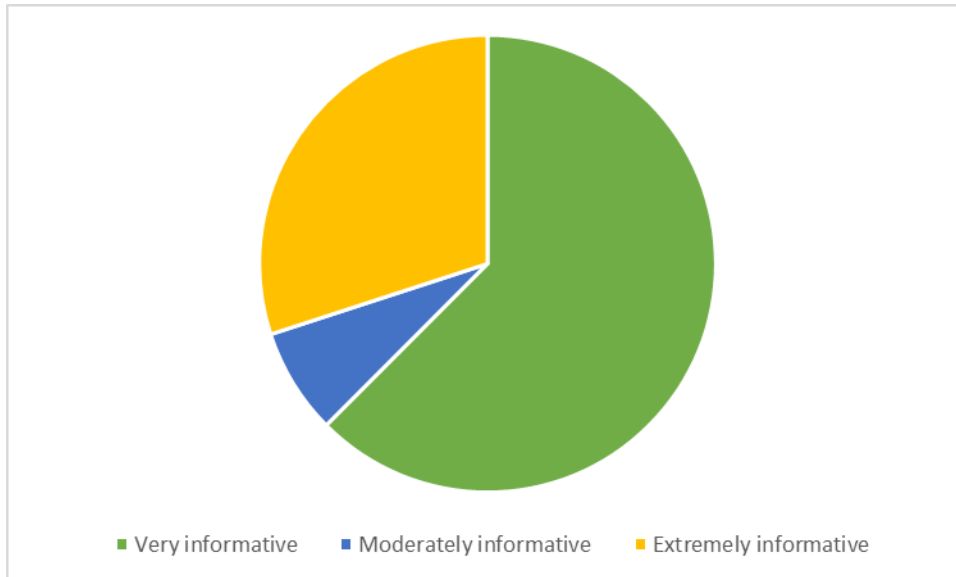
The event was coordinated by Mr. Debaditya Barman (Coordinator), Assistant Professor, Department of Computer and System Sciences, Visva-Bharati. We have received very positive feedbacks from the participants. Feedbacks have been summarized in the following section. Last but not least, we would like to thank Prof. Paramartha Dutta, Prof. Siddhartha Bhattacharyya and our faculty members for their endless support and encouragement.

Feedbacks from the participants

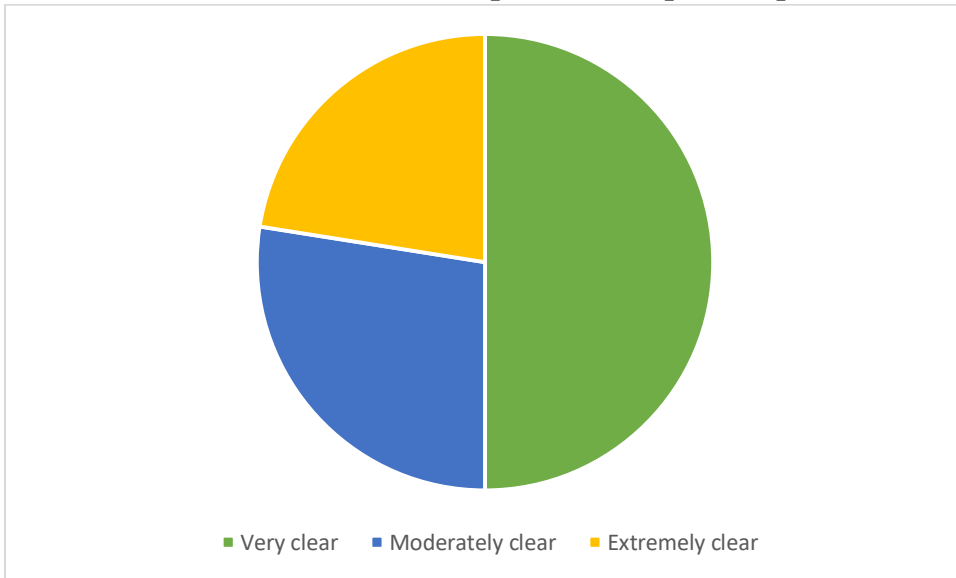
1. Overall how satisfied were you with this webinar?



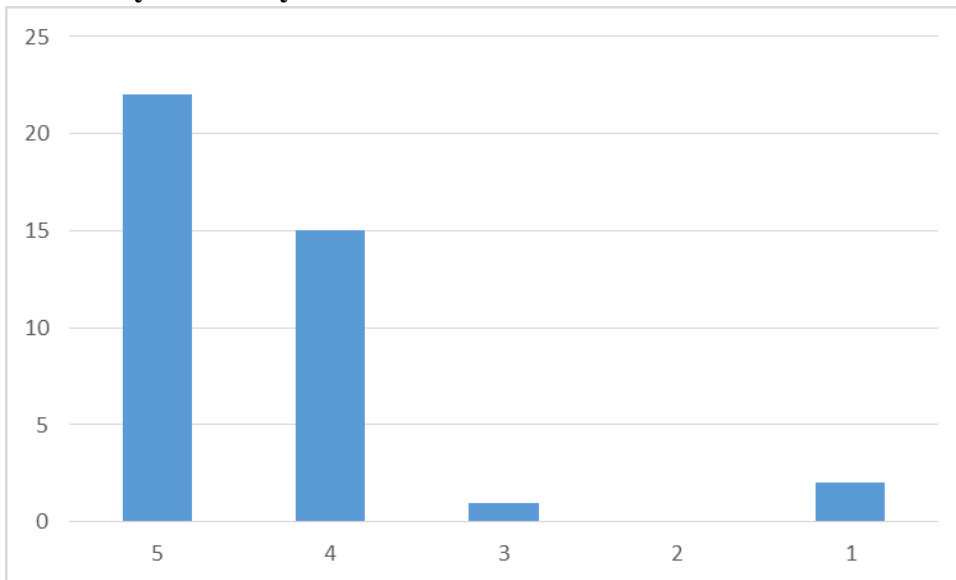
2. How informative did you find the webinar?



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

Viewing Siddhartha Bhattacharyya's presentation...

sivAT creates core cluster heat map of D_N

Input $D_N : D_{ij} \geq 0 ; D_{ii} = 0 ; D = D^T$

Set $c' \leq c, \phi_1 = 1, n_c \leq 10,000$

Get c' MM Samples
Get c' 1-np crisp clusters $\{U_j : 1 \leq j \leq c'\}$ in O_{ij}

Get n DRS samples from U_i
 $n_i = \left\lceil \frac{|U_i|}{N} n \right\rceil ; 1 \leq i \leq c'$
 $n = \sum n_i$

Extract D_{ij} from D_N
Send D_{ij} to IVAT
 $\text{IVAT}(D_{ij}) = \text{sivAT}(D_{ij})$

Participants (43): Sumana Bandyopadhyay, TANIYA CHATTERJEE

Chat: From James C. Besdek to everyone: 7:35 PM So, there it is. Great

Viewing Siddhartha Bhattacharyya's presentation...

The Stochastic mixture Model

	Population	Sample
Prior Probs.	π_i	p_i
Comp. PDF	$g(x i)$	$g(x i; q_i)$
Post. Probs.	$\pi(i x)$	$p(i x)$
Mixture PDF	$f(x) = \sum \pi_i g(x i)$	$f(x; Q) = \sum p_i g(x i; q_i)$
Bayes Rule	$\pi(i x)f(x) = \pi_i g(x i)$	$p(i x)f(x; Q) = p_i g(x i; q_i)$
When $X = \{x_k\}$	$\Pi = [p(i x_k)] \in M_{fcn}$	$P = [p(i x_k)] \in M_{fcn}$

Participants (44): Debaditya Barman, Siddhartha Bhattacharyya, Paramartha Dutta

Chat: From James C. Besdek to everyone: 7:35 PM So, there it is. Great