



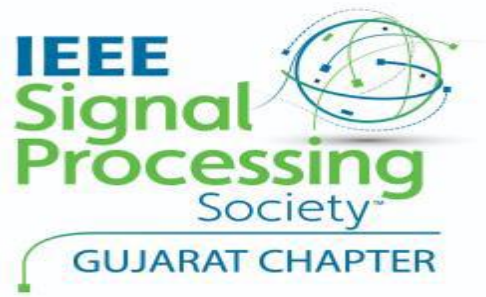
Report on
IEEE SPS GS, WISP
International Women's Day Celebration
Topic: Balance between professional and personal life from the
women perception



Expert: Prof. Dr. Namrata Vaswani
Immediate Past Chair WISP IEEE SPS and
Professor

Iowa University, USA.

March 8th 2021

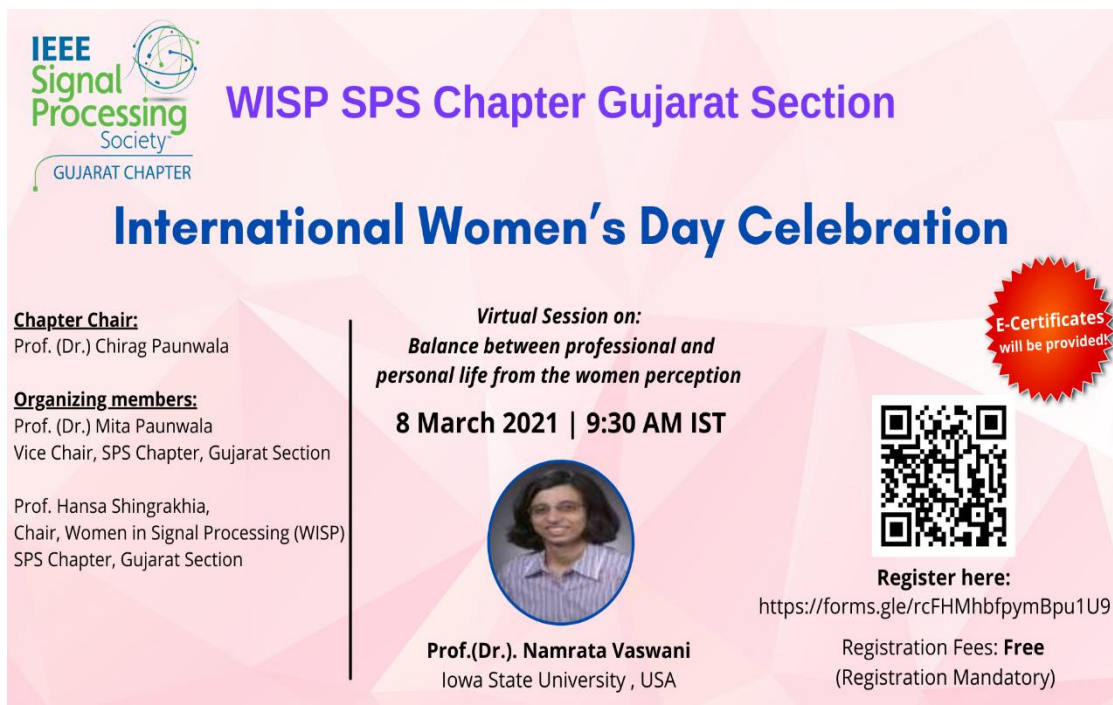


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1. Poster for the talk



The poster is for an event titled "International Women's Day Celebration" organized by the WISP SPS Chapter Gujarat Section. It features a pink and white geometric background. On the left, it lists the Chapter Chair (Prof. Chirag Paunwala) and Organizing members (Prof. Mita Paunwala and Prof. Hansa Shingrakhia). In the center, it details a virtual session on "Balance between professional and personal life from the women perception" on 8 March 2021 at 9:30 AM IST, featuring Prof. Dr. Namrata Vaswani from Iowa State University. On the right, there is a QR code for registration, a red starburst graphic stating "E-Certificates will be provided", and the registration link: <https://forms.gle/rcFHMhbfypmBpu1U9>. Registration fees are listed as free but mandatory.

IEEE Signal Processing Society
GUJARAT CHAPTER

WISP SPS Chapter Gujarat Section

International Women's Day Celebration


Chapter Chair:
Prof. (Dr.) Chirag Paunwala


Organizing members:
Prof. (Dr.) Mita Paunwala
Vice Chair, SPS Chapter, Gujarat Section

Prof. Hansa Shingrakhia,
Chair, Women in Signal Processing (WISP)
SPS Chapter, Gujarat Section

Virtual Session on:
*Balance between professional and
personal life from the women perception*

8 March 2021 | 9:30 AM IST


Prof.(Dr.). Namrata Vaswani
Iowa State University , USA



Register here:
<https://forms.gle/rcFHMhbfypmBpu1U9>

Registration Fees: **Free**
(Registration Mandatory)

**E-Certificates
will be provided!**



2. Expert Profile

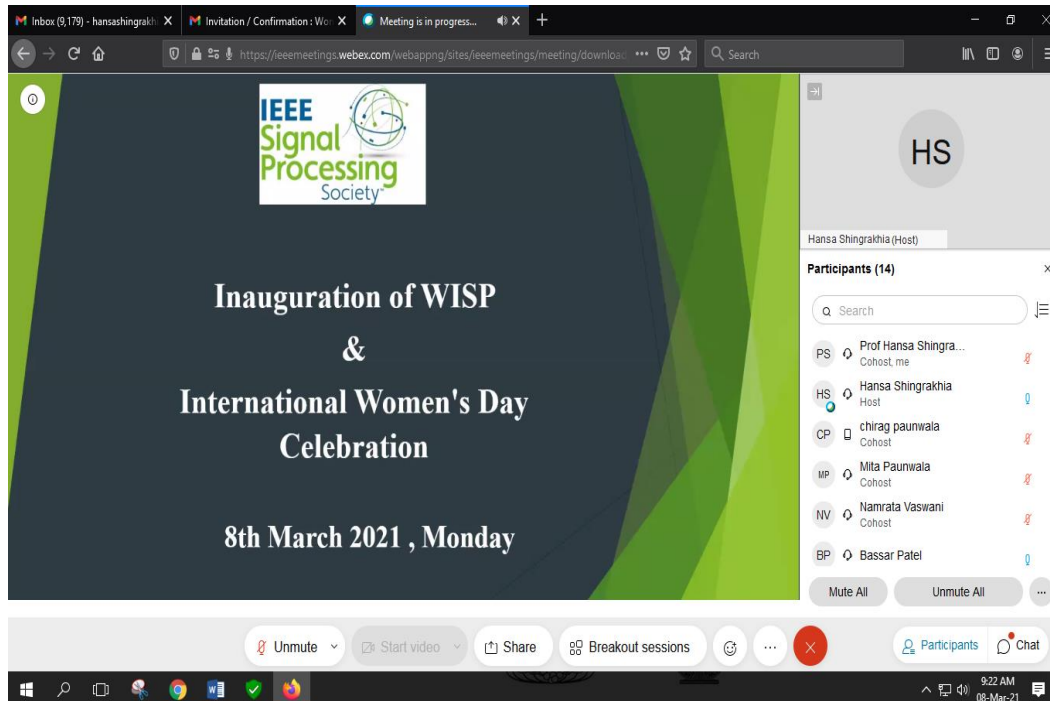
Dr. Namrata Vaswani is Anderlik Professor of Electrical and Computer Engineering, and (by courtesy) of Mathematics, at Iowa State University. She received a Ph.D. in 2004 from the University of Maryland, College Park and a B.Tech. from Indian Institute of Technology (IIT-Delhi) in India in 1999. Her research interests lie at the intersection of statistical machine learning / data science, computer vision, and signal processing.

She has also served as Chair in IEEE in the past and actively involved in different activities for the betterment and growth of the chapter.



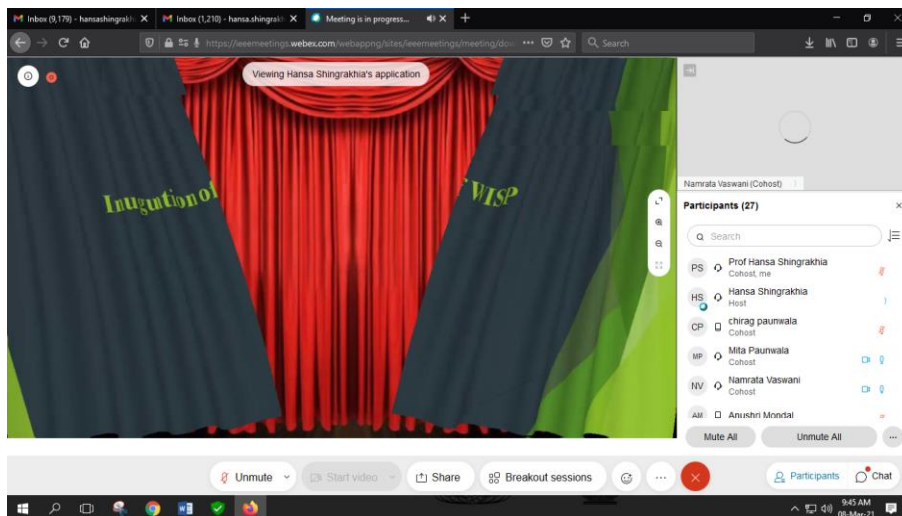
3.Topics Covered During the Talk

The Event was held for the inauguration ceremony of IEEE SPS Women Wing WISP and the same was followed by the interactive talk of Dr. Namrata Vaswani, Past Chair IEEE SPS and Professor, Iowa University, USA as a celebration of Women's Day.





4. Glimpses of the talk



IEEE Signal Processing Society

GUJARAT CHAPTER

(Dynamic) Subspace Learning from "Bad" Data

Namrata Vaswani
Iowa State University
<http://www.cse.iastate.edu/~vaswani/>

Chat: Namrata Vaswani (Co-host)

Start by Ananta Singh to Co-host
Good morning - Happy Women's day to all women! 10:14

from Dr. Ananta Singh to Co-host
👍👍👍 10:16

from Prof. Hansa Shingraha to Co-host
yes nam 10:16

Dr. Ananta Singh
ji prasad 10:16

Send to: Everyone

Type your message here

- Today, a lot of data is generated everywhere
 - a lot of it is streaming big data that cannot be stored for too long
 - e.g., tweets, video surveillance camera feeds, social network connectivity patterns across time, etc
- video surveillance Netflix movie ratings' data Reality Mining dataset
- Acquired data is often "bad", e.g., is outlier-corrupted, incomplete, or is nonlinear function of the "true data" (signal).
- Signals are typically structured, e.g., sparse or low-rank.
- In a long sequence, the structure properties are often dynamic (change with time, albeit slowly)
- First step: "clean-up" the mess and dimension reduce – focus of this talk
 - fill in missing entries (Matrix Completion), remove outliers (Robust PCA) or un-do the nonlinearities (e.g., Phaseless PCA)

Participants: HS, DS, AS, BS, D

Examples of useful and useless PCA solutions

SVD on clean data

SVD on outlier-corrupted data

Observed data with small noise: Y is a $2 \times d$ matrix generated as $Y = L + W$ where L has rank $r = 1$ and W is zero mean i.i.d. Gaussian noise with variance 3.

Outlier corrupted data: $Y = L + S$ where each entry of S is generated from a Gaussian mixture with 2 zero mean components – one with variance 1, and the other with variance 200, with the latter component being very unlikely (small mixture weight)

Participants (25): Prof. Hansa Shingraha, Hansa Shingraha, Namrata Vaswani, ching paumala, Nita Paumala, Admin

Viewing Namrata Vaswani's application

About me: at Iowa State

- B.Tech from IIT-Delhi, 1995-1999
- Ph.D. from University of Maryland, College Park, 1999-2004
- After an year-long postdoc, joined Iowa State University in 2005
 - Assistant Professor, 2005-2011
 - Associate Professor, 2011-2016
 - Professor, 2016-present
 - Assistant Professor, 2013-present
- Research in statistical machine learning and signal processing
 - Uses a lot of linear algebra and basic probability ideas
 - Focus on classification and theory
 - Applications in video analysis and medical imaging
- Teaching:
 - Probability for EE, Machine Learning from a signal processing perspective
 - Estimation and Detection Theory, Special Topics Statistical ML
- More details: <https://www.cse.iastate.edu/~namrata/>

Participants (33): Prof. Hansa Shingraha, Namrata Vaswani, Hansa Shingraha, ching paumala, Nita Paumala, Admin



5. Memento Format



6. Certificate Format

7. Feedback Form

Expert Talk Feedback 1 Dissatisfied 2 Did not meet my expectations 3 Neutral 4 Slightly satisfied 5 Extremely satisfied	⋮ If you are not an existing IEEE Member, would you like to become a member? *
How do you rate our session on a scale of 1-5? *	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Already a member
How do you rate the expert on a scale of 1 to 5 *	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Already a member
Would you be interested in attending other such talks? *	Any suggestions for future programs Long answer text

8. Video Recording Consent form format



Video Recording Consent and Release Form

I hereby permit the IEEE Signal Processing Society, Gujarat Section to record my presentation in connection with my participation in the event mentioned below and (check all that apply):

- distribute it to the event attendees as a free benefit.
- post it on the event's website and the IEEE Signal Processing Society, Gujarat Section YouTube Channel provided that the presentation will be deleted from the Channel within 30 days of my request.

By signing below,

I (Prof Dr. Namrata Vaswani) agree to the terms stated above and hereby certify that I am 18 years of age or older.

Signature/Date

Prof Dr. Namrata Vaswani
Print Name

Balance between professional and personal life from the women perception
Talk Title

8th March 2021
Date of the talk

Women's Day Celebration
Name of the event

Webex/Online
Name of the location/venue



9. Number of Participants

Total Registrations: 262

**Report Prepared by: Prof. Hansa Shingrakhia,
Chair, WISP, IEEE SPS, GS**