

INDUSTRY EXPERT TALK

Easy and Lazy Technical Writing: Solid Logic to Invoke an AHA-Experience

Date: 18th August 2025

Time: 10:00 AM – 4:00 PM

Venue: B-Block Seminar Hall, VNRVJIET

Organised by: IEEE SPS Chapter – VNRVJIET in collaboration with IEEE SPS Chapter and IEEE Hyderabad Section, Department of ECE & EEE

Speaker: Dr. Akihiko K. Sugiyama, IEEE SPS Distinguished Lecturer, Chief Operating Partner at Damas.cus Corporation, Tokyo, Japan

Faculty Coordinators: Dr. T. Srinivas and Dr. Ch. Anil Kumar

Student Coordinators: Saketh Ram K. and Vedarup Chintala

No. of participants: 148

The poster features a pink and white color scheme with various logos at the top, including VNRVJIET, IEEE, and IEEE Hyderabad Section. The main text is centered and reads: 'IEEE SPS Chapter- VNRVJIET in collaboration with the IEEE SPS Chapter and IEEE Hyderabad Section Department of ECE & EEE'. Below this, it says 'DISTINGUISHED LECTURE ON EASY AND LAZY TECHNICAL WRITING: SOLID LOGIC TO INVOKE AN AHA-EXPERIENCE'. The date and time are listed as '18th August 2025' and '10:00 AM- 4:00 PM'. The location is 'B-Block Seminar Hall'. A photo of Dr. Akihiko K. Sugiyama is shown on the left. To the right of the photo, his name and title are listed: 'Distinguished Speaker Dr. Akihiko K. Sugiyama, IEEE SPS Distinguished Lecturer, Chief Operating Partner at Damas.cus Corporation Tokyo, Japan'. Below this is a quote: '“If you can't explain it simply, you don't understand it well enough.” -Albert Einstein'. At the bottom, there are social media handles for @ieeenvrvjiet and @ieeehyderabad, and contact information for the faculty coordinators (Dr. Srinivas Talasila and Dr. Ch. Anil Kumar) and student coordinators (Saketh and Vedarup Chintala).

IEEE SPS Chapter- VNRVJIET in collaboration with the IEEE SPS Chapter and IEEE Hyderabad Section
Department of ECE & EEE

DISTINGUISHED LECTURE ON
EASY AND LAZY TECHNICAL WRITING: SOLID LOGIC TO INVOKE
AN AHA-EXPERIENCE

18th August 2025 10:00 AM- 4:00 PM
B-Block Seminar Hall

Distinguished Speaker
Dr. Akihiko K. Sugiyama
IEEE SPS Distinguished Lecturer,
Chief Operating Partner at Damas.cus
Corporation Tokyo, Japan

“If you can't explain it simply, you don't
understand it well enough.”
—Albert Einstein

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On August 18th, 2025, the IEEE SPS Chapter – VNRVJIET, in collaboration with IEEE SPS Chapter and IEEE Hyderabad Section, Department of ECE & EEE, organized a talk on “Easy and Lazy Technical Writing: Solid Logic to Invoke an Aha-Experience” by Dr. Akihiko K. Sugiyama, IEEE SPS Distinguished Lecturer and Chief Operating Partner at Damas.cus Corporation, Tokyo, Japan. Held at B-Block Seminar Hall, VNRVJIET, from 10:00 AM to 4:00 PM, the event aimed to equip students and researchers with techniques to enhance technical writing and presentation skills through clarity, novelty, and logical structure.

Effective technical writing and presentation demand clarity, novelty, and logical structure to engage reviewers and audiences. This lecture presents a 3-point analysis framework—value (the research contribution), trick (the technical idea enabling it), and problem (the issue

addressed with evaluation results)—to streamline communication. The value lies in crafting concise abstracts and presentations that highlight novelty early, achieving clarity in research communication. The trick involves a structured checklist and slide order to ensure logical flow. The problem addressed is the inefficiency in technical writing, such as unclear value or redundant content. The motivation is to equip students with tools for reviewer-friendly communication. An interactive afternoon session analyzed research papers, applying the framework to refine algorithms.

The event was carried out in two sessions, the morning session which was from 10:00 A.M. to 12:00 P.M., and the afternoon session which was from 2:00 P.M. to 4:00 P.M.

Introduction

Technical writing often fails to convey research contributions due to unclear articulation, missing novelty, or redundant content. Existing guidelines, such as those in the IEEE Author Center, emphasize format but overlook logical flow and audience engagement. This lecture addresses this problem by introducing a 3-point analysis framework (value, trick, problem) to enhance clarity and impact. The motivation is to enable researchers to present their work concisely, ensuring reviewers grasp the contribution immediately. The solution employs a checklist for writing abstracts and introductions, a systematic slide order, and quantitative evaluation guidelines using clear visuals like bar graphs.

Morning Session: Technical Writing and Presentation Framework

Dr. Akihiko K. Sugiyama delivered a comprehensive morning session on improving technical writing and presentation skills, emphasizing clarity, novelty, and logical structure. Key points included:

1. Understanding Inefficiencies in Writing

- Students struggle to highlight the value of their work, often burying novelty in complex or unclear explanations.
- Dr. Sugiyama emphasized presenting novelty early to capture reviewers' attention and establish the contribution's significance.

2. The 3-Point Analysis

- Value: The contribution, such as a new algorithm achieving 95% accuracy in image classification.
- Trick: The technical idea, like a novel algorithm structure, enabling the contribution.
- Problem: The issue addressed, supported by evaluation results (e.g., limitations in real-time processing).
- This checklist applies to abstracts, introductions, and conclusions for concise communication.

3. Slide Preparation

- Slide Order: Background, related work, problem statement, summary of approach, detailed method, evaluation, conclusions.
- Authoring Sequence: Start with method details, then summary, problem, evaluation, and background to align with logical flow.
- Figures: Use clear visuals with legible fonts (≥ 24 pt for text, ~ 36 pt for emphasis). Figure titles must accurately describe content (e.g., “Accuracy Comparison of Proposed Algorithm vs. Baseline”).

4. Logic and Evaluation

- Present research as cause $\rightarrow$ expectation $\rightarrow$ reality to ensure logical flow.
- Discuss “anti-effects” (failure cases) to enhance credibility by demonstrating transparent reasoning.
- Quantitative evaluations should include dataset details (e.g., 10,000 images, 80-20 train-test split). Bar graphs are preferred, with vertical axes starting at 0 (e.g., showing 95% vs. 93% accuracy) and font sizes matching body text (≥ 24 pt).

5. Interactive Engagement

- Dr. Sugiyama engaged students with examples, clarifying doubts and fostering a collaborative learning environment.

Afternoon Session: Interactive Paper Analysis

The afternoon session focused on applying the 3-point analysis to student-submitted research papers, with Dr. Sugiyama providing hands-on feedback. Key insights included:

1. Applying the 3-Point Framework

- **Value:** Identified contributions, such as a new algorithm achieving 95% accuracy in image classification.
- **Problem:** Clarified issues like inefficient real-time processing in existing methods.
- **Trick:** Highlighted innovations like optimized algorithm designs, ensuring no redundancy.

2. Quantitative Evaluation

- Evaluations included dataset details (e.g., 10,000 images, 80-20 train-test split).

- Bar graphs were used, with vertical axes starting at 0 (e.g., showing 95% vs. 93% accuracy). Font sizes matched body text (≥ 24 pt).
- Example: A bar graph titled “Accuracy of Proposed vs. Baseline Algorithm” showed a 2% gain, with clear labels and no use of “improved.”

3. Avoiding Pitfalls

- Redundancy was eliminated by ensuring distinct content in abstracts and evaluations.
- Terms like “systems” were replaced with “algorithm” (e.g., “novel algorithm” instead of “improved system”).
- Vague terms like “improved” were avoided, using direct results (e.g., “achieves 95% accuracy”).

4. Visual Clarity

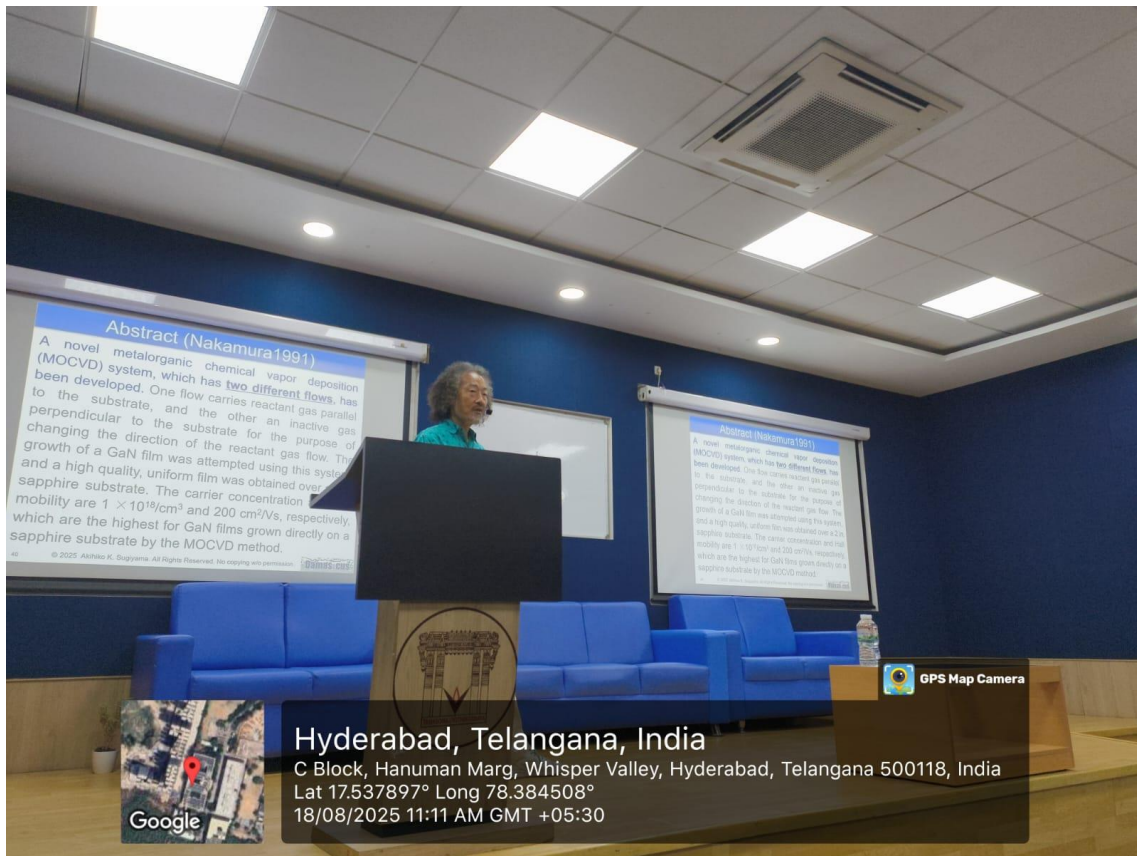
- Figures included captions explaining purpose (e.g., “Bar graph showing 95% accuracy of proposed algorithm vs. 93% of baseline on 10,000-image dataset”).
- For negligible results (e.g., 0.5% accuracy gain), alternative metrics like inference time reduction (e.g., 20ms faster) were suggested.

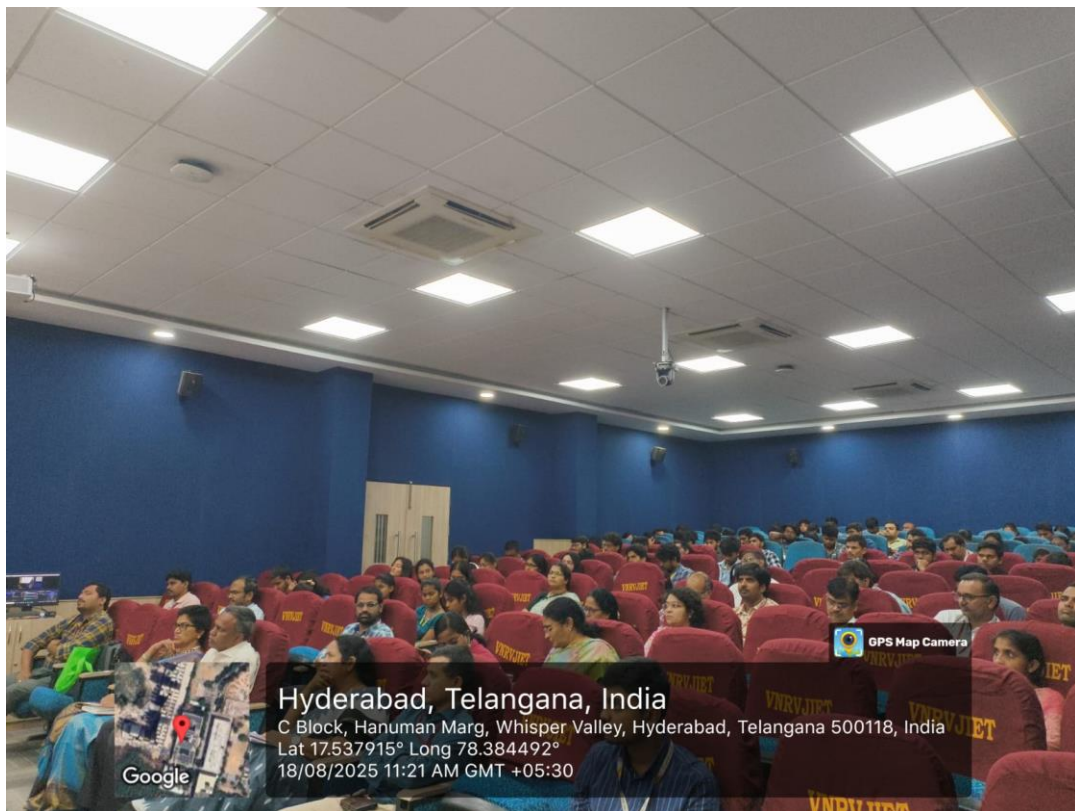
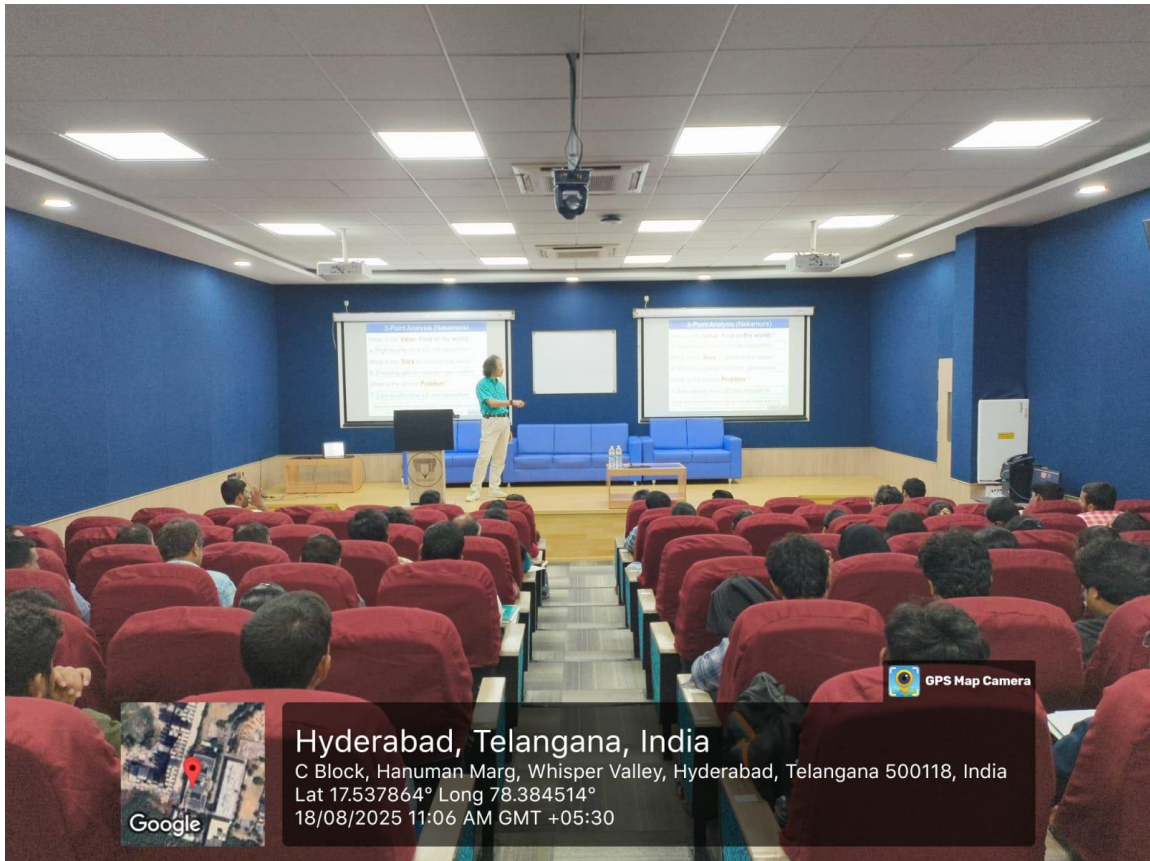
5. Interactive Feedback

- Dr. Sugiyama reviewed papers, identifying unclear value statements or redundant content.
- He provided feedback on rewriting abstracts to start with novelty (e.g., “A new algorithm achieves 95% accuracy in real-time image classification”) and using bar graphs for comparisons.

Conclusion

Dr. Akihiko K. Sugiyama’s lecture provided a transformative framework for technical writing and presentation, centered on the 3-point analysis (value, trick, problem). The morning session introduced writing and presentation techniques, while the afternoon session applied these principles to student papers, emphasizing quantitative evaluation and visual clarity. By adopting this framework—using clear visuals like bar graphs, avoiding redundancy, and focusing on algorithms—participants gained practical strategies to enhance research communication, equipping them for academic and professional success.





Attendance:

Distinguished Lecture on "Easy and Lazy Technical Writing: Solid Logic to Invoke an Aha-Experience"					
on 18-08-2025					
Conducted by: The Department of ECE, EEE, IEEE SPS Chapter - VNRVJET & IEEE VNRVJET SB, in collaboration with the IEEE SPS Hyderabad Chapter and IEEE Hyderabad Section.					
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