

MINUTES

THIRTY SIXTH MEETING OF ARTIFICIAL INTELLIGENCE SECTIONAL COMMITTEE,
LITD 30 ALONG WITH ITS SUB-GROUPS

DATE :20-05-2024 DAY : Monday TIME : 1100h – 1230h	VENUE: Webex Meeting link: https://bismanak.webex.com/bismanak/j.php?MTID=mc1a49da40fa3ab436ad31b070aba6f45 Meeting number: 2510 697 9845 Password:LITD30@36
Chairperson: Dr. Pushpak Bhattacharyya	Member Secretary: Shri Kshitij Bathla

List of Participants is given in Annex-1.

ITEM 0 WELCOME

- 0.1 Mr. Kshitij Bathla, Member Secretary of LITD 30, welcomed all participants and informed them about the following changes incorporated into the agenda:
- a) item 2.3 - Co-option requests have been updated
 - b) item 4.1.1 C) Included
 - c) Some other editorial corrections at agenda item 4.2, 4.5.1 and 6.2.
- He also informed that the updated agenda was shared vide email dated 20th May 2024.
- 0.2 Dr. Pushpak Bhattacharyya, Chairperson of LITD 30, welcomed all the participants and informed them that the main agenda item for today's meeting is the debriefing for the JTC 1/SC 42 Plenary meetings. He also requested all members to continue diligently reviewing all documents to provide their regular inputs.

ITEM 1 FORMAL CONFIRMATION OF THE MINUTES OF LAST MEETINGS

- 1.1. Member Secretary informed that the minutes of the Thirty fifth meeting of the Artificial Intelligence sectional committee held on 16 April 2024 were circulated on 03 May 2024 and no comments have been received. The committee formally confirmed the minutes.

ITEM 2 SCOPE AND COMPOSITION OF SECTIONAL COMMITTEE LITD 30

- 2.1 The committee considered the information as given at item 2.1 and 2.2 of the agenda. The Committee decided that organizations who have not participated in 35th/36th meeting would be requested to confirm their interest to contribute and in case of no response such organizations would be recommended for withdrawal.

2.2 The committee considered the information given at item 2.3 of the agenda and decided as mentioned below:

Name	Organization	Decision of the committee
Mr. Manoj Kumar	Google India Private Limited, Bengaluru	Committee decided to include Google India as invitee. Based on their contributions decision for co-option would be taken in subsequent meetings.
Mr Anant Bhaskar Garg	Individual Capacity	Committee decided to include him as invitee. Member Secretary will confirm his organization. Based on his contributions decision for co-option would be taken in subsequent meetings.
Dr. Anil Kr. Rose (Principal Member) Dr. Ankit Gupta (Alternate member)	Chandigarh College of Engineering and Technology	Committee decided to include Chandigarh College of Engineering and Technology as invitee. Based on their contributions decision for co-option would be taken in subsequent meetings.

2.4 Member Secretary informed that the following members are invitees to the committee.

1. Mr Rishabh Dangwal (KPMG India Private Limited)
2. Mr. Sundar Narayanan (Individual Capacity)
3. Ms. Smita Agrawal (Nirma University)
4. Mr Madhav Chablani [Cloud Security Alliance - NCR (India)]

The committee noted the information.

ITEM 3 NEW WORK ITEM PROPOSAL

3.1 The committee noted the information as given at item 3.1 of the agenda.

ITEM 4 INTERNATIONAL STANDARDIZATION ACTIVITIES

4.1 The committee noted the information as given at item 4.1 of the agenda.

INDIA'S PROPOSALS TO JTC 1/SC 42

4.1.1 Proposals under discussion

A. ISO/IEC PWI 42118 'Reliability of AI systems'

The committee considered the information provided under item 4.1.1 A) of the agenda. Dr. C. Anantaram provided update related to the discussion held during the SC 42 Plenary and WG meetings. He informed that SC 42/WG 3 meeting was held on 16th May 2024. During the meeting, UK and China experts suggested to change the title to "Reliability Assessment of AI Systems" and the suggestion was agreed by all. He also informed that the next meeting of JTC 1/SC 42 WG 3 for this project Reliability is in June and requested other members to participate

in the discussions.

The Chairperson enquired whether the reliability of AI systems subsumes issues such as bias and hallucination and hardware aspects. Dr. Anantaram informed that hardware would not be included specifically, and the focus is on operational profile failures of AI systems, where bias and hardware aspects could be marked as a failure for estimation of reliability through statistical models.

Mr. Madhav Chablani asked how the reliability of AI systems differs from assurance of AI systems. Dr. Anantaram explained that assurance is related to testing, verification, validation which are at a point of time whereas for reliability estimation is done based on testing data and failure analysis over a period of time.

Mr. Sundar Narayan suggested changing AI System to AI Model as most of the discussions held are related to AI model and not for AI system. Dr. Anantaram informed that the plan is to focus on AI system as explained in ISO/IEC 22989.

The Member Secretary informed the committee that we can have detailed discussions regarding this in the monthly meetings of LITD 30/WG 3 and interested were requested to confirm their interest so as to include them in LITD 30/WG 3 discussions.

B. Study item- Artificial Intelligence – Guidance for Generative AI Applications

The committee considered the information provided under item 4.1.1 B) of the agenda. Member Secretary informed that Dr. Shrikant Bhat is unable to join today's meeting and Mr. Syed had presented this study item during the Seoul Plenary. Mr Syed was requested to provide update.

Mr. Syed Ahmed provided a brief overview of the study item, highlighting its focus on the quality of newly generated content by AI. He informed that the study encompasses aspects such as hallucination, perplexity scores and AI synthetic data. He also informed us that these things will be discussed in the upcoming Wednesday meeting of JTC 1/SC 42 WG 4.

Dr. Anantaram requested to elaborate more regarding the aspect of establishment of output data quality for Generative AI applications. Mr. Syed informed the various parameters like perplexity score, Hallucination score, Coherence, Consistency etc. which can be considered for ensuring the output data quality of Generative AI applications and the additional aspects worth considering like context sensitivity, adversarial robustness & diversity.

Mr. Raghavendra Bhat enquired that if this study item is equivalent to guard rails or additional considerations on top of guard rails. Mr. Raghavendra Bhat mentioned that output quality is also tried to control through input data like RAG pipeline is also a means to control the hallucination. He also asked whether we are also trying to address the IP aspects.

Mr. Syed explained that this is little different from the guard rails as guard rails are generally coming from input point of view and few of them from output aspects. This study item is to check whether the generated output is harmful or toxic. It aims at completely new generated output. Mr. Syed informed about the aspects of Data Provenance (ISO/IEC 5181) and Inputs data quality (ISO/IEC 5259) which already considered by other groups and are not part of this study item.

The Member Secretary informed the committee that we can have detailed discussions regarding this in the monthly meetings of LITD 30/WG 4 and interested were requested to confirm their interest so as to include them in LITD 30/WG 4 discussions.

C. ISO/IEC PWI 47559 'De-identification of training data for ML'

The committee considered the information as given at item 4.1.1 C) of the agenda. Mr. Srinivas P (Infosys) provided update and rationale of the proposal. He informed that study is aimed to identify the measures which could balance the requirement of training data as well as privacy

requirements.

The chairperson conveyed that in retrieval augmentation generation and knowledge graph assisted deep learning etc.; the entry in the knowledge graph is through entity and when we de-identify we lose the handle to query the knowledge graph. This is the severe problem that need to be considered. Mr. Srinivas P informed that study is aimed to address this aspect.

The Member Secretary informed the committee that we can have detailed discussions regarding this in the monthly meetings of LITD 30/WG 2 and interested were requested to confirm their interest so as to include them in LITD 30/WG 2 discussions.

4.1.2 Status of India's approved proposals to JTC 1/SC 42

a) ISO/IEC 24668:2022 Artificial intelligence — Process management framework for big data analytics

The committee noted the information as given at item 4.1.2 a) of the agenda.

b) ISO/IEC 5339:2024 Artificial Intelligence — Guidelines for AI applications

The committee noted the information as given at item 4.1.2 b) of the agenda.

c) ISO/IEC TS 17847 Verification and Validation Analysis of AI Systems

The committee considered the information as given at item 4.1.2 c). Mr. Raghvendra Bhat informed that this document is likely to progress to CD stage by July. He conveyed that for the next two months they have targeted to close all the submission & editorial changes.

d) ISO/IEC TR 42106 Artificial Intelligence — Overview of differentiated benchmarking of AI system quality characteristics

The committee considered the information as given at item 4.1.2 d). Member Secretary informed that Dr. Nisheeth Srivastava is unable to join today's meeting. Dr. Nisheeth Srivastava has informed that status of the Working Draft of ISO/IEC 42106 is same and documents is expected to move to CD stage by next plenary meeting (October 2024) of JTC 1/SC 42.

4.2 DOCUMENTS of JTC 1/SC 42

4.2.1 The committee considered the information as given at item 4.2.1 of agenda and decided as follows:

SL. No	Document No. & Title	Closing Date for ISO voting/ SC 42 WG	Last date for inputs by LITD 30/LITD 30 Panel Member/Invitee	Decision of the meeting
1	ISO/IEC FDIS 5259-1 Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 1: Overview, terminology, and examples	27 May 2024	30 April 2024	Approve

2	ISO/IEC FDIS 5259-3 Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 3: Data quality management requirements and guidelines	27 May 2024	30 April 2024	Approve
3	ISO/IEC FDIS 5259-4 Artificial intelligence — Data quality for analytics and machine learning (ML) — Part 4: Data quality process framework	27 May 2024	30 April 2024	Approve
4	SR ISO/IEC 20546:2019 Information technology — Big data — Overview and vocabulary	3 June 2024	30 April 2024	Confirm
5	ISO/IEC NP TS 42112 Information technology — Artificial intelligence — Guidance on machine learning model training efficiency optimisation	14 June 2024	30 April 2024	Disapproval with comments (Dr. Pushpak Bhattacharaya, Mr. Raghavendra S Bhat and Mr. Sundaraparipu rnan N will provide written comments)
6	ISO/IEC NP 4213 Artificial intelligence — Performance measurement for AI classification, regression, clustering and recommendation tasks	28 June 2024	30 May 2024	Members were requested to provide inputs.
7	ISO/IEC DIS 12792 Information technology — Artificial intelligence — Transparency taxonomy of AI systems	16 July 2024	30 May 2024	
8	ISO/IEC NP TS 42111.2 Information technology — Artificial intelligence — Guidance on lightweight AI systems	28 July 2024	30 May 2024	
9	ISO/IEC NP 22989-2 Artificial intelligence — Concepts and terminology — Part 2: Healthcare	29 July 2024	30 May 2024	

10	ISO/IEC NP TS 25223 Information technology — Artificial intelligence — Guidance and requirements for uncertainty quantification in AI systems"	2 Aug 2024	15 June 2024	
11	ISO/IEC NP 25258 - AI Inference framework for AI systems	13 Aug 2024	15 June 2024	

All were requested to provide their inputs on the documents due for inputs at the earliest.

4.3 The committee noted the information as given at item 4.3 of agenda. All registered experts were specifically requested to contribute and to provide regular updates to LITD 30.

Member Secretary informed that all registered experts shall inform the projects in which expert is already contributing/intend to contribute at the earliest. The committee decided that in case of no response from the registered experts, the non-participating experts and experts who are not providing regular updates would be removed from the respective working group of JTC 1/SC 42. The committee also decided that based on the inputs received, removal and registration of experts would be done in consultation with the Chairperson LITD 30.

4.4 JTC 1/SC 42 Published Standards

The committee considered the information as given at item 4.4 of agenda. All were requested to review the published standards. All were requested to provide their inputs (whether to adopt these standards as Indian Standard or not) by 30th May 2024.

4.5 MEETINGS OF JTC 1/SC 42 “ARTIFICIAL INTELLIGENCE”

4.5.1 Thirteenth plenary and working group meetings of JTC 1/SC 42

4.5.1.1 The committee noted the information as given at item 4.5.1.1 of the agenda. It was informed that the Member secretary would discuss with LITD 30 Chairperson to finalize the venue for hosting of JTC 1/SC 42 meeting in India during April 2025.

4.5.1.2 The committee considered the information as given at item 4.5.1.2, Annex-3 and Annex-4 of the agenda. Members provided their reports of participation. Reports are enclosed in **Annex-2**.

4.5.2 Member Secretary informed that the Fourteenth plenary and working group meeting is scheduled to be held in France during 7th-11th October 2024.

ITEM 5 DOCUMENTS IN WIDE CIRCULATION

5.1 The committee considered the information as given at agenda item 5.1 of the agenda and decided as mentioned below:

S.No.	Document No.	Document Title	Last date of comments	Decision of the committee
1	LITD/30/24566 (Identical To: ISO/IEC 42001:2023)	Information Technology - Artificial Intelligence-Management System	05-03-2024	The committee finalized the documents for publication as Indian Standards, without any changes. The committee also decided to resolve the comments received and to recommend changes for discussion at JTC 1/SC 42 meetings. The committee decided that in case of no comments by the due date, the documents would be considered as finalized for publication as Indian Standard and in case comments are received then the comments would be put up to the committee for further decision.
2	LITD/30/24866 (Identical To: ISO/IEC 5338:2023)	Information Technology- Artificial Intelligence- AI System Life Cycle Processes	16-04-2024	
3	LITD/30/24862 (Identical To: ISO/IEC TR 5469:2024)	Artificial Intelligence -Functional Safety and AI Systems	16-04-2024	
4	LITD/30/24867 (Identical To: ISO/IEC TS 25058:2024)	Systems and Software Engineering- Systems and Software Quality Requirements and Evaluation SQuaRE -Guidance for Quality Evaluation of Artificial Intelligence AI Systems	16-04-2024	
5	LITD/30/24865 (Identical To: ISO/IEC 5339:2024)	Information Technology -Artificial Intelligence- Guidance for AI Applications	16-04-2024	

ITEM 6 PROGRAM OF WORK

6.1 The committee noted the information as given at item 6.1 of the agenda.

6.2 The committee considered the information as given at item 6.2 of the agenda. It was

decided that member secretary would issue review sheets for the documents due for review 2024-25 for further decision. Members were requested to provide their inputs.

ITEM 7 PANEL 3 "LEVELS OF SPECIFICATIONS FOR AI SYSTEMS"

7.1 The committee noted the information as given at item 7.1 of the agenda.

ITEM 8 R&D PROPOSALS

8.1 The committee noted the information as given at item 8.1 of the agenda.

ITEM 9 INFORMATION RELATED TO IMPLEMENTATION OF STANDARDS

9.1 The committee noted the information as given at item 9.1 of the agenda.

ITEM 10 INFORMATION ON E-SALE OF STANDARDS BY BIS

10.1 The committee noted the information as given at item 10.1 of the agenda.

ITEM 11 NATIONAL INSTITUTE FOR TRAINING IN STANDARDIZATION (NITS)

11.1 The committee noted the information as given at item 11.1 of the agenda

ITEM 12 MANAKONLINE

12.1 The committee noted the information as given at item 12.1 of the agenda.

ITEM 13 DATE AND PLACE FOR THE NEXT MEETING

13.1 The committee considered the information as given at item 13.1 of the agenda. Meeting schedule LITD 30 and its WGs for 2024-25 is as follows:

LITD 30 meetings -

- 36th meeting - in the week of 20th -24th [May 2024](#)
- 37th meeting - in the week of 2nd-6th [Sep 2024 \(IIT Bombay\)](#)
- 38th meeting - in the week of 14th -18th [Oct 2024](#)
- 39th meeting - in the week of 6th-10th [Jan 2025](#)

LITD 30/WG meetings schedule is given below:

Day of the Month	LITD 30/WG/	Day of the Week	LITD 30/WG	Day of the Week	LITD 30/WG	Day of the Month	LITD 30/WG
First Monday	WG 1 (next meeting 3rd June 2024)-monthly	Second Monday	WG 7 (next meeting 10th June 2024)-monthly	Third Monday		Fourth Monday	

First Tuesday		Second Tuesday	WG 8 (next meeting 11th June 2024)-monthly	Third Tuesday		Fourth Tuesday	
First Wednesday		Second Wednesday		Third Wednesday	WG 5 (next meeting 19th June 2024)-monthly	Fourth Wednesday	WG 4 next meeting (starting from 22nd May 2024)-monthly
First Thursday	WG 2 (next meeting 6th June 2024)-monthly	Second Thursday	WG 3 (next meeting 13th June 2024)-monthly	Third Thursday		Fourth Thursday	
First Friday		Second Friday		Third Friday		Fourth Friday	WG 9 (next meeting 24th May 2024)-monthly

Major agenda items of [LITD 30/WG](#) meetings are

- a. Examine and recommend India's inputs for JTC 1/SC 42 documents relevant to the WG
- b. Exchange of information among Indian experts registered in the respective SC 42/WG
- c. Any other item based on suggestion of LITD 30/WG convener/member

Further meetings of LITD 30/WG 6 are held weekly.

Member Secretary requested committee members to suggest a date in the week of 2nd-6th Sep 2024 which is scheduled to be held at IIT Bombay.

ITEM 14 ANY OTHER BUSINESS

- 14.1** There being no other business to be discussed, meeting ended with vote of thanks to chairperson and all the participants.