Standards Driven Research Workshop @ COMSNETS 2025

THEME: "Promoting Pre-Standards Collaborations and Harmonisation for 6G"

Important Dates

Paper Submission Deadline	27th October 2024 (AoE)
Notification of Acceptance	3rd December 2024
Camera-ready Submission	10th December 2024
Workshop Date	10th January 2025

Context & Rationale

SDR Workshop is structured as an annual event for a multi-faceted global community (academics, industry, government) organized around **Telecom** standards **(nominally oriented to 6G).** The workshop brings together members of this diverse community to deliberate and collaborate across the FULL life cycle of Standardisation – from Pre-Standardisation activities to Standards Development and Post-Standardisation. The ability to innovate in, contribute to and adopt leading-edge globally relevant Technical Specifications or Industry standards for Telecom and networking is of paramount significance to the nation's industrial capacity and ultimate societal well-being.

This implies that workshop topics be linked in some manner to current global (e.g. ITU, 3GPP, IEEE, ISO/IEC) Standards Development Organisation's (SDOs) Technology Working Group's (WG) deliberations or to future (6G) standards development roadmaps (e.g 3GPP Rel-19 and beyond).. Further, contributions that summarize experiences and provide insights into strategic issues around the IP creation pipeline for various global/national SDO WGs are also welcome. Finally, the workshop particularly invites submissions that highlight aspects of telecom standardization relevant for India specific use cases and national research priorities, in view of Bharat 6G vision.

Summary: The SDR workshop seeks to act as a forum for

a) interaction among academic-industry-government participants as a platform for ideas on standards development aligned with national priorities and

b) for early consensus creation in preparation for contributions at Global SDOs, with the primary aim of:

- pro-active identification of futuristic research, development and prototyping needed for standards development for next generation telecom, networking and computing technologies
- identify pathways for 3-way (academic/national industry and government) collaboration on creation of pre- standards IP pipeline aligned with future technology and standards roadmaps,
- creating or supporting existing working groups (WG) to pro-actively, advise the government regarding technology policy (notably spectrum allocations) and strategies for R&D resource allocation to enhance the impact at Global SDOs, to align with National Priorities.

Call for Contributions

The Workshop invites submission of original work, not previously published or under review at another conference/journal. A primary criterion of evaluation will be demonstrated awareness of ongoing/emerging issues at any of various standardization bodies pertinent to telecom standards. Besides purely technology-centric submissions, commentary or position documents on any of emerging network architectures, telecom policy, market formation or technology-cum-business strategic aspects are particularly welcome.

Topics of interest include, but are not limited to:

Pre Standards Topics:

      Market Design and Regulatory Aspects for Telecom
      Spectrum Allocations/Re-Allocation
      Role of Industry-Govt-Academic collaboration in IP creation
      Experiences – transitioning R&D to Standards IP
      Critique of IP creation/standardization process – Indian Perspective
      Bharat 6G: India-specific Use cases

Emerging Technology Areas:

      Immersive Communication
      Massive Communication
      Hyper reliable and low latency Communication
      Ubiquitous Connectivity
      AI and Communication
      Integrated Sensing and Communication
      Sustainability
      Connecting the Unconnected
      Security and Resilience
      Ubiquitous Intelligence

Post Standardisation Topics :

Network Performance evaluation
New capabilities - Interoperability,Composability, Positioning, Coverage,
Open Radio Access Networking
Open Source for 5G and 6G
Results/Experiences from deploying test-beds or Field Trials

How is a Contribution different from a paper?

- A contribution can be results from early-stage research study that is linked to existing standards with the potential as a future contribution to a Standards Development Working or Study Group (3GPP, IEEE, IETF etc)
- A contribution can be vision papers, technical commentary and market research intended as potential contribution to a future-looking roadmap item identified by an SDO (e.g. ITU)
- A contribution can be studies compiling data and resulting insights into network operations from a test-bed or from the field
- A contribution can be an opinion piece or position paper based on a mix of technology, market and business strategic considerations.

Submission Guidelines

- Submissions (including title, author list, abstract, all figures, tables, and references) should not exceed **5 pages** in length. A minimum number of 3 pages are required. The Abstract, Introduction & References should clearly indicate the relevant standards or feature(s) analyzed and include URLs to appropriate standards reports/documents or relevant industry sources.
- Reviews will be **single-blind**: authors name and affiliation should be included in the submission
- Submissions must follow the formatting guidelines as given on IEEE Website; and those that do not meet the size and formatting requirements will not be reviewed. Submissions must follow the formatting guidelines as given on IEEE Website; page limit is 6 pages for technical content and references, and those that do not meet the size and formatting requirements will not be reviewed. We will follow a double-blind review policy.
- All papers must be in Adobe Portable Document Format (PDF) and submitted on HotCRP.

- All workshop papers (full papers - both regular and invited) will appear in conference proceedings and be submitted to IEEE Xplore as well as other Abstracting and Indexing (A&I) databases.

For any queries, please contact us at comsnets.workshop@gmail.com

Submission Link: **TBA**

Program Committee

Avinash Agarwal   Dept. of Telecommunications, GoI
Arzad Alam Kherani   IIT Bhilai

Balaji Raghothaman   Keysight Technologies, USA
Brejesh Lall   IIT Delhi
Giridhar Mandyam   Mediatek, USA
Serge Fdida   Sorbonne Univ. France

Workshop Co-chairs

Pamela Kumar

Telecom STDs Development Society of India
India

Ashwin Rao

University of Helsinki
Finland

Sumit Roy

University of Washington
Seattle, USA