ITU-R Study Group 3 report to RAG 2026

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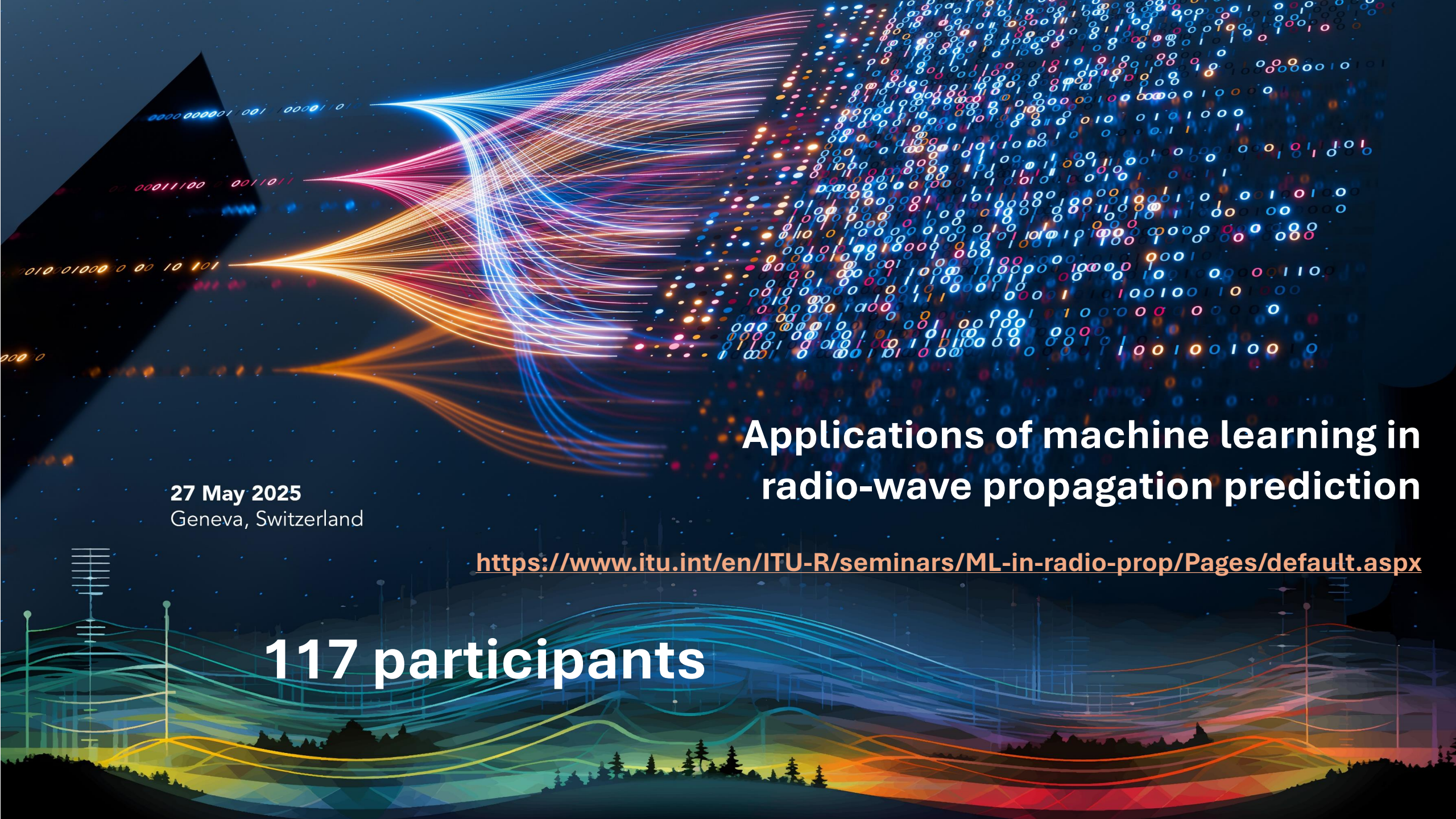
Chair, ITU-R Study Group 3 (Radio-wave propagation)

30 March 2026


Applications of machine learning in radio-wave propagation prediction
27 May 2025
Geneva, Switzerland
https://www.itu.int/en/ITU-R/seminars/ML-in-radio-prop/Pages/default.aspx
117 participants

CPM-27 deliverables met

Lunar

- New Recommendation approved "Methods and models for predicting lunar radio-wave propagation characteristics"(P.2170)

Slant path Earth-space models

- New clutter model developed (P.2108 §3.3)
- Diffraction model updated (P.619)

Frequency validity of models

- Guidance developed for the use of Building Entry loss model (P.2109) above 100 GHz
- Site general short-range models frequency ranges extended (P.1411)

Feedback on Doc. RAG/43 discussions

Reviewed WPs remits, no overlap with other groups was identified

The WPs of SG3 have an essential supporting role to service WPs

SG 3's work plan addresses the moist of the emerging technologies mentioned based on contributions received from members

Scientific neutrality and evidence-based Propagation Models on a service agnostic basis

SG3 typically meets annually, meeting frequency impacts timely approval of Recommendations

Remote participation is important and SG3 widely uses CGs, enhancements to remote working tools are welcomed

Expert participation in ITU-R SG3

- Academia supplies essential data and analysis, but participation is declining due to:
  - Lack of visibility/attribution in Recommendations.
  - Publication cycles for academic journals delay ITU-R contributions.
  - Difficulty attracting new academic experts.

- Call for administrations to encourage experts and scientists of academia and research institutions to participate and contribute to the work of ITU-R Study Group 3 (CACE/1151)