

1. [2025 International Conference on Signal Processing and Communication Technology, SPCT 2025](#)**Accession number:** 20261720591328**Source title:** 2025 International Conference on Signal Processing and Communication Technology, SPCT 2025**Abbreviated source title:** Int. Conf. Signal Process. Commun. Technol., SPCT**Issue title:** 2025 International Conference on Signal Processing and Communication Technology, SPCT 2025**Issue date:** 2025**Publication year:** 2025**Language:** English**ISBN-13:** 9798331561758**Document type:** Conference proceeding (CP)**Conference name:** 2025 International Conference on Signal Processing and Communication Technology, SPCT 2025**Conference date:** December 5, 2025 - December 7, 2025**Conference location:** Guangzhou, China**Conference code:** 221570**Sponsor:** IEEE**Publisher:** Institute of Electrical and Electronics Engineers Inc.

Abstract: The proceedings contain 50 papers. The topics discussed include: UB-PPG: an U-Net and BiLSTM paralleled network for ppg based fatigue detection; dynamic data encryption based on endogenous security for mimic defense; radar clutter suppression technique based on multi scale feature pyramid and adaptive threshold segmentation; a probabilistic fusion method for channel estimation and signal detection over Rayleigh fading channels; MBS-Net: a Mamba-based network for efficient remote sensing building segmentation; an ADC-based interoperability evaluation framework for unmanned systems with combined weighting method; design and implementation of digital automatic gain control with secondary meteorological radar on FPGA; and design and verification of a lightweight rotating object detection method based on attention enhancement.

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