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Autore	Dubey Ashwani Kumar
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Altri autori (Persone)	RochaAlvaro KwasnickaHalina MihaylovaLyudmila
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Nota di contenuto	Section 1: Advancements in Image and Video Processing -- Variance Stabilised Image Deconvolution under Mixed Poisson-Gaussian Noise in Fluorescence Microscopy -- Improvisation of ESRGAN for Upscaling Surveillance Video -- Specialized Image Descriptors Adaptation for Diplococci Recognition in Microscopic Images -- Pre-Trained Encoder-Decoder Architecture for Breast Ultrasound Image Segmentation -- FaceComm: A Novel Framework for Identifying Communities in Group Photographs using Face Recognition, Clustering & Community Detection -- Tonal and Temporal Analysis of Shock wave for Multi Caliber Ammunition -- Section 2: Signal Processing and Noise Management -- EEG and EMG signal integration using Machine learning for detection of Epileptic Seizures -- Assessment of muscle fatigue in lower extremity muscles during isometric contractions from EMG signals using DWT -- A Novel Approach for Estimating the Diagnostic Information Loss from Fetal PCG Signal during Signal Transmission --

IFIR Filter and Filter Bank Design using Schittkowski Algorithm -- Assessing the Performance of Adaptive Line Enhancement Algorithm for Noise Reduction in Audio Signals -- Multi-Speaker Speech Processing in Noisy Environments: A Hybrid Model for Source Separation and Summarization -- Removal of EOG artifact using EWT and SG filter -- etc.

Sommario/riassunto

This volume comprises selected peer-reviewed proceedings of the 12th International Conference on Signal Processing and Integrated Networks (SPIN 2025). It aims to provide a comprehensive and broad-spectrum picture of state-of-the-art research and development in signal processing, IoT sensors, systems and technologies, cloud computing, wireless communication, and wireless sensor networks. This volume will provide a valuable resource for those in academia and industry.