

# Echo Cancellation Using Sub-band Adaptive Filtering

Ecaterina Arvai, Marina Țopa

## **Abstract**

*This work presents one of the methods for echo cancellation using adaptive filters and sub-band filtering. Implementations of the echo cancellation application were made, for the signal splitting into two, four and eight sub-bands. As the number of bands in the filter is increased, the convergence rate is larger. The computational complexity of the proposed scheme is nearly the same as that of the full band approach. Simulation results are included to prove the efficiency of the new approach.*