Formant positions and bandwidths determination of spectral envelope

Calculation from roots of LPC polynomial

Formant tilts calculation

Input speech signal

Segmentation

Windowing

Smoothed envelope by cepstral limitation

LPC analysis (low order)

$N_{0,l}$

$N_{LPC}$

$P_C$ [dB]

$\{F_{i,2,3}\}$

$\{k_{i,2,3}\}$

$\{\phi_{i,2,3}\}$

$\{B_{3i,2,3}\}$

$\{B_{i,2,3}\}$

$\{F_{i,2,3}\}$

$\{B_{3i,2,3}\}$