



How to get ahead in multi-stream combination?

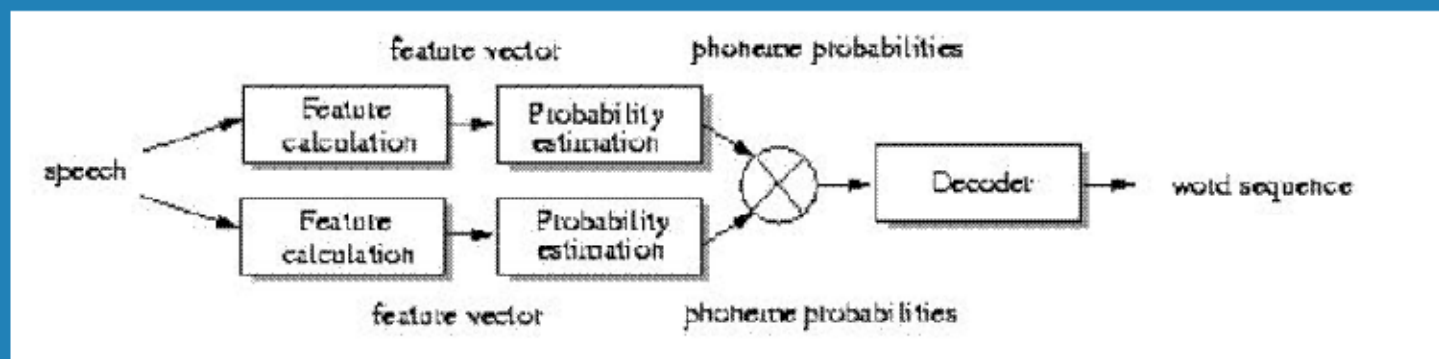
- 1. Why multi-band approach?**
- 2. Need for full combination approach**
- 3. What's next?**

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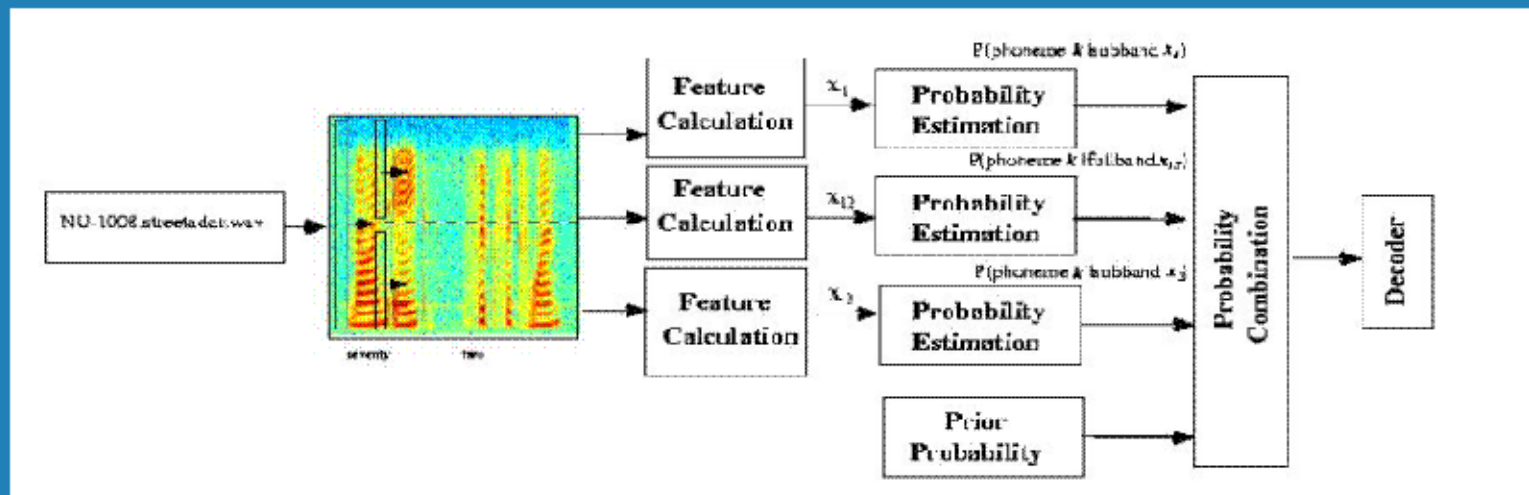
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Why multi-band approach?



• **Robustness against band limited noise**

Need for full combination approach



- Sub-bands are not independent
- Improving the performance: Using weighting strategies

What's next?

• Selection Strategies

- Selecting top performing combinations
- Fixing the high SNR bands

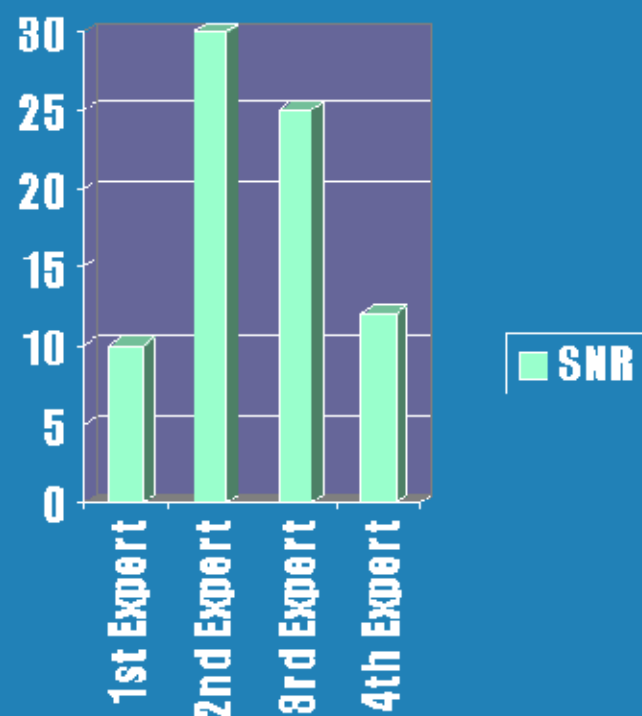
• Interpolating noisy band from neighbouring clean bands

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Selecting top performing combinations



- Using only those combinations which satisfy some criterion, for eg, having high SNR or having SNR above a particular threshold

Fixing the high SNR bands

0	0	0			
0	0	1			X
0	1	0		X	
0	1	1		X	X
1	0	0	X		
1	0	1	X		X
1	1	0	X	X	
1	1	1	X	X	X

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Interpolating noisy band from neighbouring clean bands

Making an assumption that a particular band is noisy and then interpolating that band from neighbouring bands assuming that those bands are clean.

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Example

