CLAIMS

What is claimed is:

1. A method of providing an audio service, the method comprising:

for a time-domain sequence of signal frames, comparing an effective count of bins in a frequency band to a desired count of bins for the frequency band;

computing a forgetting factor for the frequency band as a ratio of the effective count to the desired count, wherein the forgetting factor is limited to a maximum permitted forgetting factor;

for each frequency band of a plurality of frequency bands, generating a respective smoothed band-specific covariance matrix for a present signal frame using a previously generated value of the respective smoothed band-specific covariance matrix for a previous signal frame relative to the present signal frame and the forgetting factor; and

generating an audio signal for the audio service using frequency domain representations of the time-domain sequence of signal frames and further using corresponding sets of the respective smoothed band-specific covariance matrices;

wherein the comparing, computing, and generating are performed by a system including one or more computer processors.

2. A system comprising:

one or more computer processors; and

a non-transitory computer-readable medium storing instructions that, upon execution by the one or more computer processors, cause the one or more computer processors to perform operations of the method of claim 1.

3. A non-transitory computer-readable medium storing instructions that, upon execution by one or more computer processors, cause the one or more computer processors to perform operations of the method of claim 1.