算法 1 RemoteVoiceControlSys

输入:模拟语音指令voice 输出:相应控制操作signal

- 1: sampledSignal ← signalsampling(voice) // 语音信号的采样
- 2: quantizedSignal ← signalquantization(sampledSignal) // 语音信号的量化
- $3: sourceCodes \leftarrow sourceencode(quantizedSignal) // 信源编码$
- 4: channelCodes ← channelencode(sourceCodes) // 信道编码
- $5: modulatedCodes \leftarrow modulation(channelCodes) // 调制$
- 6: transmittedCodes ← channeltransmission(modulatedCodes) // 信道传输
- 7: $demodulatedCodes \leftarrow demodulation(transmittedCodes)$ // 解调
- 8: $channelDecodes \leftarrow channeldecode(demodulatedCodes)$ // 信道解码
- 9: sourceDecodes ← sourcedecode(channelDecodes) // 信源解码
- 10: signal ← speechrecognition(sourceDecodes) // 语音识别