# End-to-End Neural Speech Coding for Real-Time Communications Xue Jiang<sup>1</sup>, Xiulian Peng<sup>2</sup>, Chengyu Zheng<sup>1</sup>, Huaying Xue<sup>2</sup>, Yuan Zhang<sup>1</sup>, Yan Lu<sup>2</sup> <sup>1</sup>Communication University of China, <sup>2</sup>Microsoft Research Asia





	PESQ	STOI
	2.447	0.869
	2.360	0.863
G-GRU	2.501	0.870

SQ	STOI	DNSMOS
40	0.811	3.29
77	0.822	3.51
94	0.821	3.48

SQ	STOI	DNSMOS
13	0.747	3.04
45	0.778	3.38
10	0.770	3.33

• TFNet is efficient for both separation(speech enhancement) and restoration(packet loss concealment and coding)