Universidad Técnica Federico Santa María,

Avenida España 1680, Valparaíso, CL 2390123

Editor-in-Chief

Speech Communication

Dear Sir/Madam,

We wish to submit an original research article titled *Voice quality modification using glottal pulse parameters in the WORLD vocoder* for consideration by Speech Communication. We confirm that this work is original and has not been published elsewhere, nor is it currently under consideration for publication elsewhere.

In this paper, we present an extension of the well-known WORLD Vocoder adding a Rosenberg++ pulse as glottal excitation signal with a special shape control parameter that simultaneously alters the instants of maximum excitation, maximum flow, and the return phase. The resulting Vocoder is capable of modifying voice quality in a physiologically accurate way, it can mimic different pathological voice qualities for vocally healthy subjects and the synthetic voice is natural.

Please address all correspondence concerning this manuscript to me at matias.zanartu@usm.cl.

Thank you for the consideration of this manuscript.

Sincerely,

Corresponding author

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