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Sommario/riassunto	Long description: Worldwide there is a universal need for second language language learning. It is obvious that the computer can be a great help for this, especially when equipped with methods for automatically assessing the learner's pronunciation. While assessment of segmental pronunciation quality (i. ,e. whether phones and words are pronounced correctly or not) is already available in commercial software packages, prosody (i.e. rhythm, word accent, etc.) is largely ignored---although it highly impacts intelligibility and listening effort. The present thesis contributes to closing this gap by developing and analyzing methods for automatically assessing the prosody of non-native speakers. We study the detection of word accent errors and the general assessment of the appropriateness of a speaker's rhythm. We propose a flexible, generic approach that is (a) very successful on these tasks, (b) competitive to other state-of-the-art result, and at the same time (c) flexible and easily adapted to new tasks.