| Language | Useful features | Materials/methods | Reference |
|---|---|---|---|
| Cantonese | avg. f0, $sgn(f0')$, $\|f0'\|$ | Isol. monosyll., acoustics/perception/discriminant | Khouw and Ciocca (2007) |
| Cantonese | avg. f0, $sgn(f0')$ | Synthetic isol. monosyll. perception, MDS | Gandour (1983) |
| Cantonese | avg. f0, $sgn(f0')$, $\|f0'\|$ | Reanalysis of Fok (1974) | Gandour (1981) |
| Cantonese | avg. f0, $sgn(f0')$, $\|f0'\|$ | Synthesized monosyllables continuum, perception | Vance (1977) |
| Cantonese | rel. f0, $sgn(f0')$, $\|f0'\|$ | Isol. monosyll., acoustics/perception | Fok (1974) |
| Hmong (Green) | H1-H2, jitter, shimmer, f0 quadratic polynomial coeff. | Monosyll. in carrier phrase, perception/ANOVA | Andruski (2006) |
| Hmong (Green) | f0 quadratic polynomial coeff. | Monosyll. in carrier phrase, acoustics/discriminant | Andruski and Costello (2004) |
| Hmong (Green) | f0, H1-H2, V dur; VOT (all normalized), jitter, shimmer | Monosyll. in carrier phrase, acoustics/discriminant | Andruski and Ratliff (2000) |
| Mambila | f0 | Synthesized sawtooth in natural carrier phrase, perception | Connell (2000) |
| Mandarin | avg. f0, $f0_{fin}$, f0' | Isol. monosyll., EEG/MMN, MDS | Chandrasekaran et al. (2007) |
| Mandarin | Syll. duration, creaky voice | Isol. monosyll., resynthesis | Liu and Samuel (2004) |
| Mandarin | Amp., 50 Hz $< \Delta Amp <$ 500 Hz, V duration | Isol. monosyll., Various resynthesis, acoustic/perception | Fu and Zeng (2000); Fu et al. (1998) |
| Mandarin | Amplitude | Signal-correlated noise, perception | Whalen and Xu (1992) |
| Mandarin | Syll. duration | ?, Acoustic, perception | Gårding et al. (1986) |
| Mandarin | avg. f0, $sgn(f0')$ | Synthesized isol. monosyll., perception, MDS | Gandour (1983) |
| Mandarin | f0, f0' | Isolated monosyll., acoustic | Howie (1976) |
| Taiwanese | avg. f0, $sgn(f0')$ | Synthesized isol. monosyll., perception, MDS | Gandour (1983) |
| Thai | avg. f0, $sgn(f0')$ | Synthesized isol. monosyll., perception, MDS | Gandour (1983) |
| Thai | avg. f0, $sgn(f0')$, $\|f0'\|$ | Synthesized monosyllables, perception, MDS | Gandour (1979) |
| Thai | avg. f0, $sgn(f0')$, duration, $\|f0'\|$, $\|rel.\ f0_{fin}\| > T$ | Synthesized isol. monosyll., perception, MDS | Gandour and Harshman (1978) |
| Thai | f0, $\|f0'\|$, $sgn(f0')$ | Synthesized monosyllables continuum, perception | Abramson (1978) |
| Thai | Something not f0 | Isolated monosyllables, Whispered speech, perception | Abramson (1972) |
| Vietnamese | f0, f0', phonation, $\|\{roots(f0')\}\| > 0$ | Resynthesized isolated monosyllables, perception | Brunelle (2009) |
| Vietnamese | phonation (only) | isolated monosyllables, acoustic | Pham (2003) |
| Yoruba | avg. f0, $sgn(f0')$ | Synthesized isol. monosyll., perception, MDS | Gandour (1983) |
| Yoruba | avg. f0, $sgn(f0')$, duration, $\|f0'\|$, $\|rel.\ f0_{fin}\| > T$ | Synthesized isol. monosyll., perception, MDS | Gandour and Harshman (1978) |
| Yoruba | avg. f0, relative f0, $sgn(f0')$, $\|f0'\|$ | Isolated disyllables, perception/MDS | Hombert (1976) |

Table 17: Dimensions proposed to be useful for tonal classification in the linguistic literature. Note that in general, the parameter set proposed for a given paper is not intended to be exhaustive. For instance, in some cases, non f0-based parameters were proposed/shown to be useful but not f0-based parameters because the studies were not designed to address the usefulness of f0-based parameters.