Creation of a Sound-Image Scale
-Quantification of the Images of Chord Progression with Impression Evaluation Used-

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Sound and music make impressions on listeners and can change their moods. In this paper, a sound-image scale that scales the relationship between chord progressions and their images is created. First, with the MDS method, the impression-based distance between chord progressions is calculated and, at the same time, main chord progressions used for an evaluation experiment are selected. Second, with the SD method, an evaluation experiment is conducted on the main chord progressions. As an image scale, the dimensions of activity and exaltation were adopted, and the axes were handled as “cool-warm”and “active-passive”. In addition, based on factor loadings, scales are arranged on the image scale, and, based on factor points, the main chord progressions were represented on the same scale. Furthermore, the remaining chord progressions that had not been directly evaluated were mapped on the scale with the impression-based distance used. As a result, a sound-image scale concerning chord progressions was created.

Keywords image, sound, estimation, SD, MDS