

ABSTRACT

A pattern recognition system, pattern recognition method, and pattern recognition program capable of increasing the accuracy in computing the false acceptance probability and capable of ensuring a stable security strength are provided. Pattern recognition systems 10 and 10a comprise a first probability computation unit 32, and a second probability computation unit 33 coupled to the first probability computation unit 32. The first probability computation unit 32 computes a first probability P_{FCR} based on the number n of corresponding characteristic points cs_1 to cs_n and cf_1 to cf_n indicating points corresponding between characteristic points s_1 to s_n in a first pattern and characteristic points f_1 to f_n in a second pattern. The first probability P_{FCR} indicates the probability of existence of a third pattern that has a greater number of corresponding characteristic points to the first pattern than the number n of the corresponding characteristic points. The second probability computation unit 33 refers to the first probability P_{FCR} to compute a false acceptance probability P_{FAR} indicating the probability of falsely determining that the first pattern and the second pattern correspond to each other.