CLAIMS

1. A state estimation program for causing a computer to function as:

first state estimation means that estimates a plurality of primary states, the plurality of primary states being a plurality of states of a user carrying a sensor on the basis of information obtained by the sensor;

detection means that detects a predefined pattern on the basis of the information obtained by the sensor; and

selection means that selects different ones of a plurality of transition probabilities depending upon whether or not the pattern is detected by the detection means, the transition probabilities each being registered as a probability of a transition between individual states among a plurality of secondary states to which the plurality of primary states belong.

2. The state estimation program according to Claim 1, wherein the selection means selects a different one of the transition probabilities in accordance with a kind of the pattern detected by the detection means.

3. The state estimation program according to Claim 1 or 2, wherein the computer is caused to further function as second state estimation means that estimates a history of a change in the secondary states before and after the detection means detects a pattern based on the transition probability selected by the selection means.

~~4. The state estimation program according to Claim 1 or 2, wherein~~

~~the state estimated by the first state estimation means is a primary state, and~~

~~the computer is caused to further function as second state estimation means that estimates a history of a change in a secondary state to which the primary state belongs before and after the detection means detects a pattern on the basis of the transition probability selected by the selection means.~~

~~5~~4. The state estimation program according to any one of Claims 1 to 4~~3~~, wherein the transition probabilities are set in such a way that a probability of a

transition to another state is high or low depending when the detection means detecting a pattern or no pattern, respectively.

~~6~~5. The state estimation program according to any one of Claims 1 to ~~5~~4, wherein when the detection means detects the predefined pattern a plurality of times in a certain period of time, the selection means selects one transition probability for the detection of the plural times.

~~7~~6. The state estimation program according to any one of Claims 1 to ~~5~~4, wherein when the detection means is unable to determine which one of a plurality of kinds of predefined patterns each being the predefined pattern having been detected is relevant, the selection means sums a plurality of transition probabilities corresponding to the plural kinds of predefined patterns by weighting on the basis of a plurality of individually corresponding probabilities so as to provide a new transition probability.

~~8~~7. A state estimation apparatus comprising:

first state estimation means that estimates a plurality of primary states, the plurality of primary states being a plurality of states of a user carrying a sensor on the basis of information obtained by the sensor;

detection means that detects a predefined pattern on the basis of the information obtained by the sensor; and

selection means that selects different ones of a plurality of transition probabilities depending upon whether or not the pattern is detected by the detection means, the transition probabilities each being registered as a probability of a transition between individual states among a plurality of secondary states to which the plurality of primary states belong.