ABSTRACT

An EoD system can be easily introduced in consideration of personal living activities. A current electric power value is received from a smart tap 11, a use state q of an appliance is estimated (A) from the current electric power value, change of the use state is detected as an event when the use state is different from a use state q' of a previous time, and the type of the event e{q' → q} and an occurrence time et are stored in a memory 10. Following that, a first weight p(q' → q|t, l) of the living activity by the type of the event e is calculated based on an appliance function model table (1) 12b and an elapsed time from the event occurrence time et, and a second weight p(q|l) to each living activity corresponding to the current use state q of the appliance is acquired from an appliance function model table (2) 12c. Based on the product that is a multiplication of the first weight and the second weight, a sum Wl of the products is calculated for each appliance, and a living activity label, in which the sum Wl of the product values of each appliance becomes a maximum value, is estimated as a living activity label lt of a time t.