

ABSTRACT

OPERATIONAL KNOW-HOW ESTIMATION DEVICE AND OPERATIONAL
KNOW-HOW ESTIMATION METHOD

5 An object of the present invention is to reduce the workload of an operator to
attach classification information necessary for estimating operational know-how of a
water plant to time-series data of measured values and control values. An operational
know-how estimation device (1001) includes a data acquisition unit (101) configured to
acquire target time-series data being time-series data of measured values regarding a state
10 of a water plant and control values regarding operation manipulation, a classification
information attachment unit (102, 106) configured to classify the target time-series data
for each section by a clustering algorithm and attach the classification information to the
sections of the target time-series data, a know-how estimation unit (103) configured to
calculate a conditional probability that the measured values and the control values are
15 simultaneously held for each piece of classification information, and estimate operational
know-how representing the control values to be set for the measured values based on the
conditional probability, and a display control unit (104) configured to create display
information that supports state understanding or operation manipulation of the water plant
based on the operational know-how and cause a display unit (105) to display the display
20 information.

[Fig.1]