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Park**

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(54) **SYSTEMS AND METHODS FOR
CLASSIFYING DATA IN BUILDING
AUTOMATION SYSTEMS**

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(57) **ABSTRACT**

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A computerized method of assigning a building automation system point type to a plurality of unclassified data points is provided. The method includes receiving unclassified data points and attributes for each data point. The method includes receiving classifications for a first subset of the unclassified data points. Each classification associates a data point with a building automation system point type. The method includes generating a term set containing substrings that appear in the attributes. The method includes generating a first matrix describing a frequency that the substrings appear in the attributes. The method includes calculating an indicator of a probability that the presence of the selected substring results in the data point belonging to the selected point type. The method includes assigning a point type to a second subset by finding the substring and potential point type pair having the greatest indication of probability.

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G05B 13/02 (2006.01)
G05B 15/02 (2006.01)

(52) **U.S. Cl.**
CPC **G05B 15/02** (2013.01); **G05B 2219/21088** (2013.01); **G05B 2219/25011** (2013.01)

(58) **Field of Classification Search**
CPC G05B 13/02
USPC 700/50; 707/769, 741; 709/206
See application file for complete search history.

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20 Claims, 5 Drawing Sheets

