CLAIMS

1. A method for generating and prioritizing alerts using sensory information, the method comprising a processor implemented steps of:

capturing, using an abstraction module, an initial set of information comprising resident data pertaining to one or more users;

obtaining, using a data enriching module, a plurality of data metrics comprising of motion and non-motion data pertaining to the one or more users based upon the initial set of information for deriving one or more sets of learning activities, wherein the one or more sets of learning activities comprises one or more behavioral aspects of the one or more users, and wherein the motion and non-motion data comprise door presence data, bed presence data, beacon data, utility data, medication box data, physiological data and data related to movements of the one or more users in a house;

deriving, using a pattern generating module, a plurality of activity patterns pertaining to the one or more users based upon the plurality of data metrics for obtaining a set of threshold values, wherein each of the plurality of activity patterns comprises a set of daily activities pertaining to the one or more users over a period of time;

obtaining, using a threshold setting module, the set of threshold values pertaining to the one or more users for defining a set of rules based upon the plurality of activity patterns for performing a first comparison between the set of threshold values and the plurality of activity patterns;

performing, using an event processing engine, a second comparison between the plurality of data metrics and the set of rules for obtaining one or more sets of data for configuring one or more alerts based on at least one abnormality detected by the second comparison;

performing, using a prioritization module, a third comparison of the one or more alerts with the plurality of activity patterns and the set of threshold values and assigning a set of values to the one or more alerts based upon the third comparison for prioritizing the one or more alerts; and

communicating the one or more alerts generated and prioritized for tracking the one or more alerts according to a priority.

2. The processor implemented method of claim 1, wherein the step of obtaining the plurality of data metrics comprises deriving at least one of a set of inactivity detection metrics and vacant home metrics based upon the motion and non-motion data pertaining to the one or more users for deriving the plurality of activity patterns of the one or more users.

3. The processor implemented method of claim 1, wherein the step of performing the comparison between the set of threshold values and the plurality of activity patterns further comprises integrating the set of threshold values and the plurality of activity patterns for determining a change in the plurality of activity patterns pertaining to the one or more users.

4. The processor implemented method of claim 1, wherein the step of communicating the one or more alerts generated and prioritized comprises identifying at least a subset of the one or more users based on the initial set of information for tracking the one or more alerts.

5. A system comprising:

a memory storing instructions;

one or more communication interfaces; and

one or more hardware processors coupled to the memory via the one or more communication interfaces, wherein the one or more hardware processors are configured by the instructions to:

capture, using an abstraction module, an initial set of information comprising resident data pertaining to one or more users;

obtain, using a data enriching module, a plurality of data metrics comprising of motion and non-motion data pertaining to the one or more users based upon the initial set of information for deriving one or more sets of learning activities, wherein the one or more sets of learning activities comprises one or more behavioral aspects of the one or more users, and wherein the motion and non-motion data comprise door presence data,

bed presence data, beacon data, utility data, medication box data, physiological data and data related to movements of the one or more users in a house;

derive, using a pattern generating module, a plurality of activity patterns pertaining to the one or more users based upon the plurality of data metrics for obtaining a set of threshold values, wherein each of the plurality of activity patterns comprises a set of daily activities pertaining to the one or more users over a period of time;

obtain, using a threshold setting module, the set of threshold values pertaining to the one or more users for defining a set of rules based upon the plurality of activity patterns for performing a first comparison between the set of threshold values and the plurality of activity patterns;

perform, using an event processing engine, a second comparison between the plurality of data metrics and the set of rules for obtaining one or more sets of data for configuring one or more alerts based on at least one abnormality detected by the second comparison;

perform, using a prioritization module, a third comparison of the one or more alerts with the plurality of activity patterns and the set of threshold values and assigning a set of values to the one or more alerts based upon the third comparison for prioritizing the one or more alerts; and

communicate the one or more alerts generated and prioritized to one or more devices according to a priority for tracking the one or more alerts.

6. The system of claim 5, wherein the one or more hardware processors are further configured to obtain the plurality of data metrics by deriving at least one of a set of inactivity detection metrics and vacant home metrics based upon the motion and non-motion data pertaining to the one or more users for deriving the plurality of activity patterns of the one or more users.

7. The system of claim 5, wherein the one or more hardware processors are further configured to perform the comparison between the set of threshold values and the plurality of activity patterns by integrating the set of threshold values and the plurality of activity patterns to determine a change in the plurality of activity patterns pertaining to the one or more users.

8. The system of claim 5, wherein the one or more hardware processors are further configured to communicate the one or more alerts generated and prioritized for tracking the one or more alerts.

9. One or more non-transitory machine readable information storage mediums comprising one or more instructions which when executed by one or more hardware processors causes the one or more hardware processor to perform a method for generating and prioritizing alerts using sensory information, said method comprising:

capturing, using an abstraction module, an initial set of information comprising resident data pertaining to one or more users;

obtaining, using a data enriching module, a plurality of data metrics comprising of motion and non-motion data pertaining to the one or more users based upon the initial set of information for deriving one or more sets of learning activities, wherein the one or more sets of learning activities comprises one or more behavioral aspects of the one or more users, and wherein the motion and non-motion data comprise door presence data, bed presence data, beacon data, utility data, medication box data, physiological data and data related to movements of the one or more users in a house;

deriving, using a pattern generating module, a plurality of activity patterns pertaining to the one or more users based upon the plurality of data metrics for obtaining a set of threshold values, wherein each of the plurality of activity patterns comprises a set of daily activities pertaining to the one or more users over a period of time;

obtaining, using a threshold setting module, the set of threshold values pertaining to the one or more users for defining a set of rules based upon the plurality of activity patterns for performing a first comparison between the set of threshold values and the plurality of activity patterns;

performing, using an event processing engine, a second comparison between the plurality of data metrics and the set of rules for obtaining one or more sets of data for configuring one or more alerts based on at least one abnormality detected by the second comparison;

performing, using a prioritization module, a third comparison of the one or more alerts with the plurality of activity patterns and the set of threshold values and assigning a set of values

to the one or more alerts based upon the third comparison for prioritizing the one or more alerts; and

communicating the one or more alerts generated and prioritized for tracking the one or more alerts according to a priority.

10. The one or more non-transitory machine readable information storage mediums of claim 9, wherein the step of obtaining the plurality of data metrics comprises deriving at least one of a set of inactivity detection metrics and vacant home metrics based upon the motion and non-motion data pertaining to the one or more users for deriving the plurality of activity patterns of the one or more users.

11. The one or more non-transitory machine readable information storage mediums of claim 9, wherein the step of performing the comparison between the set of threshold values and the plurality of activity patterns further comprises integrating the set of threshold values and the plurality of activity patterns for determining a change in the plurality of activity patterns pertaining to the one or more users.

12. The one or more non-transitory machine readable information storage mediums of claim 9, wherein the step of communicating the one or more alerts generated and prioritized comprises identifying at least a subset of the one or more users based on the initial set of information for tracking the one or more alerts.