CLAIMS

What is claimed is:

1. An operation management system for triggering a personalized action, comprising:

a scene detector configured to detect a scene based on video analysis;

a scene associator configured to associate a person based on the video analysis and a location data of the person to determine an identity of the person, wherein the location data is determined from a personal device of the person;

a workflow manager configured to trigger the personalized action based on the scene detected and the identity of the person;

an access point system configured to detect a unique identification (ID) of the personal device of the person and associate the identity of the person with the unique ID, and determine a moving time of the person based on a first connection time of the personal device to a first access point and a second connection time of the personal device to a second access point; and

a processor configured to verify that the person detected in the scene at the second access point is the same as the person associated with the first access point if the determined moving time is within a predetermined value.

2. The operation management system of claim 1, wherein the scene detector is configured to detect features of the scene, and the scene detector is configured to check a scene ontology to determine if the scene is detected based on the features of the scene.

3. The operation management system of claims 1 or 2, wherein the scene associator is configured to associate the identity of the person to the scene.

4. The operation management system of claim 3, wherein the workflow manager is configured to trigger the personalized action based on the scene detected and the identity of the person associated to the scene.

5. The operation management system of any one of claims 1 to 4, wherein the access point system is configured to determine the location data of the person based on an access point, wherein the personal device of the person is connected to the access point.

6. The operation management system of any one of claims 1 to 5, wherein the access point system is configured to determine if the personal device is connected to an access point of a room for a predefined time, and configured to associate the unique ID with the room if the personal device is connected to the access point of the room for the predefined time.

7. The operation management system of any one of claims 1 to 6, wherein the features of the scene comprise at least one of person features, belonging features, action, trajectory, and dwell time.

8. A method for triggering a personalized action, comprising:

detecting a scene based on video analysis using a scene detector;

associating a person based on the video analysis and a location data of the person to determine an identity of the person using a scene associator, wherein the location data is based on an access point location of a personal device of the person;

triggering the personalized action based on the scene detected and the identity of the person using a workflow manager;

detecting a unique identification (ID) of the personal device of the person and associating an identity of the person with the unique ID, using an access point system;

determining a moving time of the person based on a first connection time of the personal device to a first access point, and a second connection time of the personal device to a second access point, using the access point system; and

verifying that the person detected in the scene at the second access point is the same as the person associated with the first access point if the determined moving time is within a predetermined value.

9. The method of claim 8, further comprising: detecting features of the scene and checking a scene ontology to determine if the scene is detected based on the features of the scene, using the scene detector.

10. The method of claims 8 or 9, further comprising:

associate the identity of the person to the scene using the scene associator.

11. The method of claim 10, further comprising:

triggering the personalized action based on the scene detected and the identity of the person associated to the scene using the workflow manager.

12. The method of any one of claims 8 to 11, further comprising determining the location data of the person based on an access point of the personal device of the person, using the access point system.

13. The method of any one of claims 8 to 12, further comprising determining if the personal device is connected to an access point of a room for a predefined time, and associating the unique ID with the room if the personal device is connected to the access point of the room for the predefined time, using the access point system.

14. The method of any one of claims 8 to 13, wherein the features of the scene comprise at least one of person features, belonging features, action, trajectory, and dwell time.

15. A non-transitory computer-readable medium storing a computer executable code comprising instructions for triggering a personalized action to any one of claims 1 to 14.

16. A computer executable code comprising instructions for triggering a personalized action according to any one of claims 1 to 14.