What is claimed is:

1. A video analysis system for analyzing videos photographed by plural cameras,

wherein plural time-series frame images imaged by the cameras are acquired, first and second objects are detected on the basis of the plural frame images, and an in-camera-video tracking process of each object is performed on the basis of plural time-series images,

wherein in each frame image, indicator values, as a local relationship degree in frame images of the first and second objects, are calculated for the second object located within a fixed distance from the first object on the basis of types of the first and second objects, a distance between the first and second objects and a width of the first object in each frame image,

wherein an in-camera-video inter-object relationship degree in the corresponding videos between the first and second objects is determined on the basis of tracking information of the first and second objects and the local relationship degree in the plural frame images photographed in time-series, wherein the in-camera-video inter-object relationship degree is a minimum value of the indicator values, and

wherein the first and second objects are linked to each other to be stored in a database together with the in-camera-video inter-object relationship degree.

2. The video analysis system according to claim 1,

wherein the in-camera-video inter-object relationship

degree is an index indicating a possession, use, and grasp between a person and an object.

3. The video analysis system according to claim 1,

wherein tracking of the first and second objects is performed between the plural cameras, and

wherein an inter-object relationship degree between the cameras is determined on the basis of the in-camera-video inter-object relationship degree in the plural cameras to determine a comprehensive relationship degree between the objects.

4. The video analysis system according to claim 1, including:

a unit that displays time-series changes between the plural cameras in the in-camera-video inter-object relationship degree by performing the tracking of the first and second objects between the plural cameras.

5. The video analysis system according to claim 1, including:

a unit that associates the same objects with the tracking interrupted with each other to be stored in a database in the in-camera-video tracking process.

6. The video analysis system according to claim 1, including:

a unit that, after performing tracking of objects between the plural cameras, deletes an object determined by an operator as wrong detection; and

a unit that, when the wrongly-detected object is deleted, deletes an object relevant to the deleted object in consideration of a spatiotemporal restriction.

7. The video analysis system according to claim 1,

wherein the first object is a person and the second object

is baggage, and

wherein the presence or absence of a baggage possession is determined for each person trace by the in-camera-video tracking process.

8. The video analysis system according to claim 1,

wherein the first object is a person and the second object is baggage, and

wherein a relationship degree between the person and the baggage is determined on the basis of tracking results of the plural cameras by the in-camera-video tracking process.

9. The video analysis system according to claim 4,

wherein the first object is a person and the second object is baggage, and

wherein the baggage relevant to the person is displayed while giving priority for each camera.

10. A video analysis method for analyzing videos photographed by plural cameras, comprising the steps of:

acquiring plural time-series frame images imaged by the cameras, detecting first and second objects on the basis of the plural frame images, and performing an in-camera-video tracking process of each object on the basis of plural time-series images;

calculating, in each frame image, indicator values for the second object located within a fixed distance from the first object, as a local relationship degree in frame images of the first and second objects, on the basis of types of the first and second objects, a distance between the first and second objects and a width of the first object in each frame image;

determining an in-camera-video inter-object relationship degree in the corresponding videos between the first and second objects on the basis of tracking information of the first and second objects and the local relationship degree in the plural frame images photographed in time-series, wherein the in-camera-video inter-object relationship degree is a minimum value of the indicator values; and

linking the first and second objects to each other to be stored in a database together with the in-camera-video inter-object relationship degree.