Claims

1. An imaging system comprising:

a first imaging apparatus that captures an image of an imaging target that is located at a first point;

a second imaging apparatus a focus position of which is set at a second point that is located at a forward side along a moving direction of the imaging target than the first point; and

a control apparatus that controls the second imaging apparatus to capture an image of the imaging target that is located at the second point on the basis of the image captured by the first imaging apparatus.

2. The imaging system according to claim 1 further comprising:

a first detection apparatus that detects whether or not the imaging target is located at the first point; and

a second detection apparatus that detects whether or not the imaging target is located at the second point.

3. The imaging system according to claim 2, wherein

the first imaging apparatus captures the image of the imaging target that is located at the first point when the first detection apparatus detects that the imaging target is located at the first point,

the second imaging apparatus captures the image of the imaging target that is located at the second point when the second detection apparatus detects that the imaging target is located at the second point.

4. The imaging system according to claim 1, wherein

the second imaging apparatus keeps capturing the image at a desired imaging rate during a period when the imaging target passes through the second point.

5. The imaging system according to claim 1 or 4 further comprising a first detection apparatus that detects whether or not the imaging target is located at the first point,

the first imaging apparatus capturing the image of the imaging target that is located at the first point when the first detection apparatus detects that the imaging target is located at the first point.

6. The imaging system according to any one of claims 1 to 5, wherein

the control apparatus (i) determines, on the basis of the image captured by the first imaging apparatus, a first position that is a position of the imaging target located at the first point in the image captured by the first imaging apparatus, (ii) estimates, on the basis of the first position, a second position that is a position of the imaging target in the image captured by the second imaging apparatus under the assumption that the second imaging apparatus has captured the image of the imaging target that has moved from the first point to the second point, and (iii) controls, on the basis of the second position, the second imaging apparatus to capture the image of the imaging target that is located at the second point.

7. The imaging system according to claim 1, wherein

in order to estimate the second position on the basis of the first position, the control apparatus (i) estimates, on the basis of the first position, a third position that is a position of the imaging target in the image captured by the first imaging apparatus under the assumption that the first imaging apparatus has captured the image of the imaging target that has moved from the first point to the second point, and (ii) estimates, on the basis of the third position, the second position that is the position of the imaging target in the image captured by the second imaging apparatus under the assumption that the second imaging apparatus has captured the image of the imaging target that has moved from the first point to the second point.

8. The imaging system according to any one of claims 1 to 7 comprising a plurality of second imaging apparatuses,

the control apparatus determining, from the image captured by the first imaging apparatus, a position of the imaging target in the image and, selects, on the basis of the determined position, one second imaging apparatus that captures the image of the imaging target that is located at the second point.

9. An imaging method comprising:

obtaining an image captured by a first imaging apparatus that captures an image of an imaging target that is located at a first point; and

controlling, on the basis of the obtained image, a second imaging apparatus a focus position of which is set at a second point to capture an image of the imaging target located at the second point that is located at a forward side along a moving direction of the imaging target than the first point.

10. A recording medium on which a computer program that allows a computer to execute the imaging method according to claim 9 is recorded.