What is claimed is:

1. A data processing method for processing an event data flow from a Dynamic Vision Sensor (DVS) to acquire image frames representing changes in a scene within different time periods, the event data flow comprising coordinates of each pixel whose brightness has changed, wherein the data processing method comprises:

segmenting the event data flow into a plurality of data slices at a predetermined time interval; and

selecting a first quantity of data slices sequentially and performing weighted calculation on the first quantity of data slices to generate the image frames representing the changes in the scene within different time periods;

calculating a movement direction and a movement speed of an object moving in the scene in accordance with the image frames representing the changes in the scene within different time periods, wherein the image frames have a gradient and an aspect, the movement direction of the object in the scene is acquired in accordance with the aspect and a relative change in the movement speed of the object is determined in accordance with the gradient.

~~2. The data processing method according to claim 1, further comprising calculating a movement direction and a movement speed of an object moving in the scene in accordance with the image frames representing the changes in the scene within different time periods.~~

~~3~~2. The data processing method according to claim ~~2~~1, further comprising generating a weighted sequence in accordance with a predetermined rule to perform the weighting calculation on the first quantity of data slices, wherein the weighting sequence comprises a first quantity of weighting factors.

43. The data processing method according to claim 32, wherein in the predetermined rule, the weighting factors in the weighting sequence change monotonically.

54. The data processing method according to claim 43, wherein the selecting the first quantity of data slices sequentially and performing weighted calculation on the first quantity of data slices to generate the image frames representing the changes in the scene within different time periods comprises: selecting the first quantity of data slices as a data group sequentially, the adjacent data groups comprising a same second quantity of data slices; and performing the weighted calculation on the data slices in each data group using the weighting sequence, to generate the image frame representing the change in the scene within a corresponding time period.

65. The data processing method according to claim 43, wherein the selecting the first quantity of data slices sequentially and performing weighted calculation on the first quantity of data slices to generate the image frames representing the changes in the scene within different time periods further comprises: performing mapping processing on the plurality of data slices to generate a plurality of slice images; and selecting a first quantity of slice images sequentially and performing the weighted calculation on the first quantity of slice images, to generate the image frames representing the changes in the scene within different time periods.

76. The data processing method according to claim 65, wherein the performing the mapping processing on the plurality of data slices to generate the plurality of slice images comprises: with respect to each data slice, mapping a pixel value corresponding to coordinates of a pixel in the data slice whose brightness has changed to a first value; mapping a pixel value corresponding to coordinates of a pixel in the data slice whose brightness has not changed to a second value; and creating the slice image of the data slice in accordance with the first value and the second value.

~~8~~7. The data processing method according to claim ~~6~~5, wherein the performing the mapping processing on the plurality of data slices to generate the plurality of slice images comprises: with respect to each data slice, counting the quantity of change times of each pixel in the data slice as an initial pixel value of the pixel; and mapping the initial pixel value of each pixel to a predetermined range to acquire the slice image of the data slice.

~~9~~8. A computing device, comprising one or more processors, a memory, and one or more programs stored in the memory and executed by the one or more processors, wherein the one or more programs comprise instructions for implementing the data processing method according to claim ~~8~~7.

~~10~~9. A computer-readable storage medium storing therein one or more programs comprising instructions, wherein the instructions are executed by a computing device so as to implement the data processing method according to claim ~~8~~7.