

comparing the determined time to determine whether the first and second stimuli indicate substantial simultaneity of the corresponding user action.

65. The computer program product of claim 47, further comprising computer program instructions, encoded on the medium, for controlling a processor to perform the operations of:

for each received stimulus, reading a time stamp indicating a time for the corresponding user action; and

comparing the time stamps to determine whether the first and second stimuli indicate substantial simultaneity of the corresponding user action.

66. A computer program product for filtering input events, the computer program product comprising:

a computer readable medium; and

computer program instructions, encoded on the medium, for controlling a processor to perform the operations of:

detecting, in a visual domain, a first plurality of input events resulting from user action;

detecting, in an auditory domain, a second plurality of input events resulting from user action;

for each detected event in the first plurality:

determining whether the detected event in the first plurality corresponds to a detected event in the second plurality; and

responsive to the detected event in the first plurality not corresponding to a detected event in the second plurality, filtering out the event in the first plurality.

67. The computer program product of claim 66, wherein determining whether the detected event in the first plurality corresponds to a detected event in the second plurality comprises:

determining whether the detected event in the first plurality and the detected event in the second plurality occurred substantially simultaneously.

68. The computer program product of claim 66, wherein determining whether the detected event in the first plurality corresponds to a detected event in the second plurality comprises:

determining whether the detected event in the first plurality and the detected event in the second plurality respectively indicate substantially simultaneous user actions.

69. The computer program product of claim 66, wherein each user action comprises at least one physical gesture.

70. The computer program product of claim 66, wherein each user action comprises at least one virtual key press.

71. The computer program product of claim 66, wherein detecting a first plurality of input events comprises receiving signals from a camera.

72. The computer program product of claim 66, wherein detecting a second plurality of input events comprises receiving signals from a microphone.

73. The computer program product of claim 66, further comprising computer program instructions, encoded on the medium, for controlling a processor to perform the operation of, for each detected event in the first plurality:

responsive to the event not being filtered out, transmitting a command associated with the event.

74. The computer program product of claim 73, further comprising computer program instructions, encoded on the medium, for controlling a processor to perform the operations of, responsive to the event not being filtered out:

determining a metric measuring relative force of the user action; and

generating a parameter for the command based on the determined force metric.

75. The computer program product of claim 66, wherein determining whether the detected event in the first plurality corresponds to a detected event in the second plurality comprises:

determining whether a time stamp for the detected event in the first plurality indicates substantially the same time as a time stamp for the detected event in the second plurality.

76. A computer program product for classifying an input event, the computer program product comprising:

a computer readable medium; and

computer program instructions, encoded on the medium, for controlling a processor to perform the operations of:

receiving a visual stimulus, resulting from user action, in a visual domain;

receiving an acoustic stimulus, resulting from user action, in an auditory domain; and

generating a vector of visual features based on the received visual stimulus;

generating a vector of acoustic features based on the received acoustic stimulus;

comparing the generated vectors to user action descriptors for a plurality of user actions; and

responsive to the comparison indicating a match, outputting a signal indicating a recognized user action.

* * * * *