

mcpQuartetExtraction

synopsis

Extraction of the 3d trajectories of the MoCap markers (separate 3d coordinates and norm)

[*batch processing*]

syntax

```
mcpQuartetExtraction( loaddir , savedir , numbody , onset , offset  
 , smptedir , fpsmpte );
```

input parameters

loaddir= path to access .c3d file(s) of the mocap recording;

savedir = path to save the 3d trajectories data (.m) – x,y,z data and norm.

numbody=vector containing the first and the last musician to be considered

onset: a four column matrix containing the smpte time code of the onset(s)

offset: a four column matrix containing the smpte time code of the offset(s)

optional arguments

smptedir= path to access .wav file(s) containing the smpte signal

fpsmpte= frame rate of the input signal

Marker label

1- LFHD left head

2- RFHD right head

3- OZ back head

4- C7 neck

5- LSHO left shoulder

6- RSHO right shoulder

7- LELB left elbow

8- RELB right elbow

9- LWRB left wristband

10- RWRB right wristband

11- SACR back

12- LASI left hip

13- RASI right hip

14- IVIBowUp

15- IVIBowDown

16- IVISc

output

none

examples

```
loaddir=' /Users/xxx/Documents/wav/ ' ;  
savedir = ' /Users/xxx/Documents/save/ ' ;  
numbody=[ 1 , 4 ] ;
```

-for one file

```
onset=[ 3 , 18 , 56 , 07 ] ;
```

```
offset=[ 3 , 20 , 46 , 12 ] ;
```

-for multiple files

```
onset=[ 3 , 18 , 56 , 07 ; 3 , 21 , 20 , 10 ] ;
```

```
offset=[ 3 , 20 , 46 , 12 ; 3 , 22 , 30 , 05 ] ;
```

```
smptedir='/Users/xxx/Documents/smpte/';  
fpsmpte=25;
```

```
mcpQuartetExtraction(load_dir,  
savedir,numbody,onset,offset,smptedir,25);
```

comments

Built on MCT Toolbox