可穿戴技术的教育应用研究前沿述评

361102

2009   Ogunduyile et al. 2013
                    Hao & Helo 2015   CNN
          McNicoll 2013
                                                                          2013
                    New Media Consortium   the
EDUCAUSE Learning Initiative   2013   4-5
                                        Johnson et al. 2013   2015
    2015
          2-3   Johnson et al. 2015

                                                        Email totc1003@ 163.com

Barfield　Caudell　2001

Bower

Sturman　2015

Bower & Sturman　2015

Johnson　　2013

——　　Tehrani　Kiana

Michael　2014

20　　60

Thorp　1998

1998　　　　　　Warwick

Barfield　2015

Popat & Sharma 2013

Vandrico　　　　　　　　　[1]

433　　　　　　　　290

1

1

203　　　　　　　　46.8%

57.9%

DIGITSOLE　　　　　　OCULUS RIFT　　　TN

OWLET　　　　DIGITSOLE

IPHONE　　　　　　　　OCULUS RIFT

TN

OWLET

	1		2
	50		79
	194		14
	28		19
	39		25
	251		10
	76		3
	7		12
			203
			7
			11
			12
			12

20%　　　　　　　Bolton　2015　　　　　　　2016
960　　　　Tsukayama　2013

2013   2015

Sapargaliyev　2015a

Coffman　2015

4

Vallurupalli et al.　2013

Kukulska－Hulme　2014

James Gibson　　Gibson　1979　　The Ecological Approach
to Visual Perception
animal　　　　　　　　　　　　　　　"
"
Norman　1988

2016　　5

Barnes　2000

Kirschner

2002　　　　　　　　　　　　　　　　　　　　artifact

educa-
tional intervention

k

OCULUS RIFT

Odegard 2013

PDAs

SAMSUNG GEAR VR   CONTROL VR OCULUS RIFT

3D

glass－experiment－begins/#.VxY4pewQizB.2014－11－07.

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A Research Review on Frontiers of
Wearable Technology Application in Education

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Abstract Wearable technology is a hot and leading topic in the field of science and technology and has already started its application in education health care industry and other social sectors. It offers an unprecedented convenience for people′s study life and work. The paper provides a brief overview of the definition of wearable technology and classifies its applications then emphasises on the situation of application of wearable technology in education sector and discusses its affordances in education. The study tries to provide the reference for the future development of application of wearable technology in education.

Key words wearable technology education affordance