

■ Future of digital collections in museums, libraries & archives ■ Information versus knowledge in the smartphone age ■

welcome



This issue we're looking in particular at how technology developments impact on the fundamental nature of what we think of as

information and knowledge, from everyday tech such as smartphones and Google to augmented reality.

Warm regards,

Catherine Dhanjal, Managing Editor

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We'd love to hear your ideas for articles, reviews or case studies. Turn to page 23 for your opportunity to win a book.

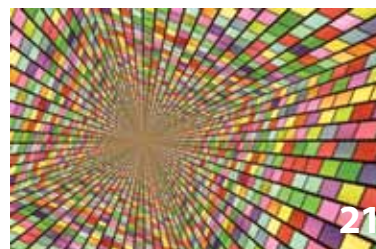
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MmiT is published quarterly by the Multimedia Information & Technology Group of Cilip in electronic format in February, May, August and November. Copy deadlines: six weeks prior to publication. IP access or user name/password available. £75 p.a. for institutional subscribers.

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contents

News

Figshare open data	3
Know Your Place historic maps project	5

BFI news

<i>El Sur (The South)</i>	7
<i>The Glass Shield</i>	8
<i>Paris Blues</i>	9

Reviews

Product review: Nuance Power PDF Advanced 2	10
---	----

Features

The future of digital collections and services in museums, libraries and archives	13
RRS Discovery and augmented reality	17
Information in an increasingly-interconnected world	21
Smart uses of data and organisational intelligence	23
Digital literacy in an age of exponential ICT change	29

Marketing insights

The merits of free image sites	32
--------------------------------	----

Technology roundup

Reading lights: LuminoLite Extra-Bright; Ecologic Mart's Eye Care	33
Fitness gadgets: Lumo Run shorts; Halo Sport; MyZone Sports Bra; Victoria's Secret heart rate bra; Nabu Smartband	34
h.ear in NC earbuds; Gymwatch; Finis Duo underwater MP3 player; iSpO2 Pulse Oximeter; GoPro HERO4 Session	35

and finally...

Coming soon	36
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technology roundup

Book reading lights

One of the highest rated book reading lights in 2016 was the **LuminoLite**. It produces excellent bright white light to enhance alertness through four LEDs.

It is not specific to any one purpose but can be used when writing, reading a book or an eReader, working with a tablet/computer, knitting, or other handcraft activities.

As the light is designed for work, it's worth noting that even the lower intensity mode could be quite bright. If you want one solely for reading before sleep, consider a serious bedtime book light.

The LuminoLite has a padded hinge on the upper clip which allows you to keep it firm without tearing a book page or leaving a mark on a delicate surface. It contains a rechargeable 1000mAh battery which should last up to 8 hour. A negative is that this charging barrel connector is non-standard so you may have to take it without when a recharge is needed (instead of using other standard cables such as Micro USB). It comes with a 1 year replacement/refund guarantee. www.luminolite.com

Available from www.amazon.co.uk for around £8.50 plus P&P.

A more specific book light for bedtime reading is the **Ecologic Mart's Eye Care**. This provides a warm light level which ensures less negative impact on your sleep hormones.

The eight light level options output between 5Lm and 40Lm. It has two light heads which work independently. The rechargeable 1000mAh batteries can be charged fully in less than 90 minutes with a USB cord.

<http://ecologicmart.com/> Available from www.amazon.com for around \$19.95 plus P&P

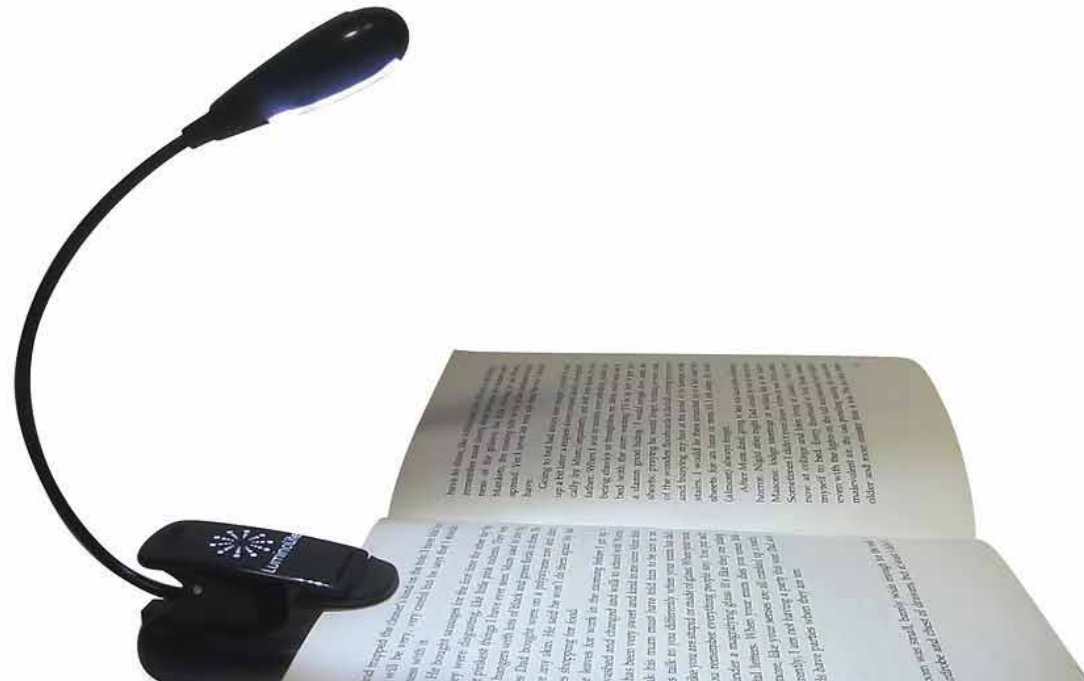


Image: © www.luminolite.com



Top: LuminoLite
Bottom: Ecologic Mart Eye Care

Image: © <http://ecologicmart.com/>

► Fitness gadgets

Here are some gadgets to up your fitness game or help as you hit the gym in January.



Lumo Run shorts £50 www.lumobodytech.com/lumo-run
These shorts can track running metrics including cadence, braking, pelvic rotation, bounce, ground contact time and stride length. They also provide real-time audio feedback via the app and connected headphones. You get post-run summaries and coaching tips and a battery life of 20 hrs in-run time & 7 days stand-by. What comes in the box is a pair of Men's Running Shorts, a Lumo Run Sensor, a charging Unit and an attachable Clip



Halo Sport £400 www.haloneuro.com/get-halo-sport
Halo Sport is a headphone device which uses pulses of energy to increase the excitability of motor neurons, benefiting athletes in two ways: accelerated strength and skill acquisition. The company claim its product can make people faster, stronger or better coordinated. The Halo has just hit the market but it has been used by elite athletes. It has potential to revolutionise sport.



MyZone Sports Bra £45 <https://buy.myzone.org/products/>
The MyZone Sports Bra combines a heart rate monitor and a sports bra allowing women to share their heart rate data with a connected device. The heart rate monitor can be unclipped when it is time to charge as well as for washing of the bra. It is firmly aimed at the fitness market coming in three sizes and red or black.

Victoria's Secret heart rate bra £45 www.victoriasecret.com
There is also a similar bra: the Victoria's Secret heart rate bra. It also measures heart rate. It costs about £45 too.

Nabu Smartband £89.99
www.razerzone.com/gb-en/store/nabu
The Nabu Smartband can show smartphone notifications whilst also performing many of the fitness functions through inbuilt sensors that the likes of fitbit does. It also has social capabilities. Notifications are shown through 2 monochrome PMOLED displays with 32x32 for icons and 128x32 for text messages and personal data.

It is built on an open development platform and Razer hopes it will be used to develop augmented reality games. This is a niche product but it is another indicator of the merging of functionality in this space.



► **h.ear in NC earbuds** £130

www.sony.co.uk/electronics/in-ear-headphones/mdr-ex750na

The Sony MDR-EX750 are noise cancelling earphones. They are in-ear ones which are extremely rare. Working out with these earbuds simply blocks out much of the background noise in daily life, they can also be worn discreetly in the street without attracting undue attention.

I swear by my over-the-ear Bose noise cancellation headphones and wear them every chance I get. These are a more portable alternative.

Gymwatch £125 www.gymwatch.com

The Gymwatch is a sensor worn on the arm which can measure strength and motion across fitness exercises, including machines, free weights and bodyweight. The sensor records the full range of motion of an exercise, determines



every strength component, repetitions and detects incorrect exercise execution to help ensure exercises are performed properly and desired fitness goals are reached.

This sensor is designed to be worn while using free weights, machines in the gym, or when doing body weight exercises. Standing in for a gym buddy, it can detect if you're doing an exercise properly, and offers instant audio feedback to help you adjust your posture, grip and pace.

Finis Duo underwater MP3 player £95

www.finisinc.com/Duo

The Duo is an MP3 player designed for swimmers that offers sound without the use of ear buds. The Duo uses a two-piece design and Bone Conduction audio transmission to deliver crystal clear audio through cheekbones to the inner ear.

An integrated clip design secures the Duo to goggle straps to rest on the cheekbones for a comfortable and streamlined fit. It comes with a built-in 4GB of storage space, a rechargeable battery that lasts 8 hours and an OLED screen with music controls.



iSpO2 Pulse Oximeter £189

www.masimo.co.uk/pulseOximeter/iSpO2Rx.htm

The iSpO2 pulse oximeter plugs into a mobile phone so you can track and trend your blood oxygenation levels, pulse rate and Perfusion Index. The product is not intended for medical use and is more for sports and aviation tracking. It uses

hospital-grade Masimo SET pulse oximetry which measures oxygen saturation and pulse rate during movement and low blood flow to the finger. It could prove very useful for athletes that travel to play. Data from the device can be exported and kept in the athlete's history for later analysis.

GoPro HERO4 Session £159.99 <https://shop.gopro.com/EMEA/cameras/hero-session/CHDHS-102-EU.html>

This is the smallest and lightest GoPro camera. The Hero4 Session shoots HD video and has an 8MP camera allowing cyclists, skiers and other sports enthusiasts to capture all their activity in video on the go. It has easy one-button control and rugged, waterproof design. Even when mounted upside down, HERO Session will automatically capture video and photos right-side up.



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