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Applying Mechatronics to Improve the Safety of Children in Vehicles - What Can Be Done? (Conference Paper)

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Abstract

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Nowadays, the media have reported an increasing number of cases where children are accidentally being trapped in vehicles while they parents and guardians are away attending to other matters. In this paper we discuss the feasibility of applying Mechatronics to improve the safety of children in vehicles with the ultimate goal of developing a means for parents, guardians and authorities to be informed if ever there is a child trapped in a vehicle and in need of urgent assistance. We have also presented some preliminary experiments we have carried out for a safety alert system which is currently being developed in our lab. © Published under licence by IOP Publishing Ltd.

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- 1 Bahaudin, N.
 Saya Maafkan Dia
 (2017) *HM Online*
 Retrieved 1 May 2017
<http://www.hmetro.com.my/node/223840>

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- 2 Ishimine, P.
(2016) *Heat Stroke in Children*
Uptodate.com. Retrieved 2 May 2017
<https://www.uptodate.com/contents/heat-stroke-in-children#H26>

- 3 McLaren, C., Null, J., Quinn, J.
Heat stress from enclosed vehicles: Moderate ambient temperatures cause significant temperature rise in enclosed vehicles

(2005) *Pediatrics*, 116 (1), pp. e109-e112. Cited 70 times.
<http://pediatrics.aappublications.org/cgi/reprint/116/1/e109>
doi: 10.1542/peds.2004-2368

View at Publisher

- 4 Null, J.
(2016) *Fact Sheet - Heatstroke Deaths of Children in Vehicles*
Retrieved 7 May 2017
<http://www.noheatstroke.org/original/index.html>

- 5 Augenbraun, E.
(2014) *How Technology Could Help Prevent Kids' Deaths in Hot Cars*
KidsandCars.org. Kidsandcars.org. Retrieved 7 May 2017
<http://www.kidsandcars.org/2014/07/10/how-technology-could-help-prevent-kids-deaths-in-hot-cars/>

- 6 *Baby Alert International*
ChildMinderreg; Elite Pad Single System
<https://www.babyalert.info/childminder-elite-pad-single-system.html>

- 7 Balogna, C.
Dads Invent Simple Device to Prevent Hot Car Fatalities
(2016) *The Huffington Post*
Retrieved 30 April 2017
http://www.huffingtonpost.com/entry/dads-invent-simple-device-to-prevent-hot-car-fatalities_us_56f53ed7e4b0a3721819b041

- 8 (2014) *Member public profile Infant*
OEDK - Rice University SOS Oedk.rice.edu. Retrieved 30 April 2017
<http://oedk.rice.edu/Sys/PublicProfile/25607033>

- 9 (2002) *Hot Vehicle Safety System and Methods Preventing Passengers Entrapment and Heat Suffocation*
Robert Bosch Corporation U.S Patent, WO2002087910 A3, issued May 22, 2002

- 10 Sasidharan, S., Kanagarajan, V.
(2015) *Proc: 2015 International Conference on Computer Communication and Informatics (ICCCI 2015)*, pp. 8-11.
(Coimbatore) Vehicle cabin safety alert system
