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author = "{Corporate McDonalds}",
title  = "{Packaging, Toys \& Waste}",
url    =
{https://corporate.mcdonalds.com/corpmdc/our-purpose-and-impact/our-planet/packaging-toys-and-waste.html},
urldate = {15/08/2022},
year   = {2022},
address = {[Accessed in May 2023]}
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author = "{Porto.pt}",
title  = "{What is Porto.pt?}",
url    = {https://www.porto.pt/en/about},
urldate = {},
year   = {2023},
address = {[Accessed in May 2023]}
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author = "{Brito, F.}",
title  = {Porto breaks all recycling records in 2022},
url    =
{https://www.porto.pt/en/news/porto-breaks-all-recycling-records-in-2022},
urldate = {16/03/2023},
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author = "{Modelo Continente Hipermercados, S.A.}",
title  = "{Annual Report 2020 Building strength for the new normal}",
url    =
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author = {Sharma, B. and Vaish, B. and Srivastava, V. and Singh, S. and Singh, P. and Singh, R.P.},
title  = {An Insight to Atmospheric Pollution- Improper Waste Management and Climate Change Nexus.},
url    =
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year   = {2017},
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  author = {Vogels, E. A. and Gelles-Watnick, R. and Massarat, N. and
  Atske, S. },
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  title = "{$EPS - Project Management}",
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@MISC{Zhujiworld2023,
  author = "{$Zhujiworld.com}",
  title = "{$Porto, Portugal - statistics 2023}",
  url = {
  https://zhujiworld.com/pt/1470464-porto/},
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title={Dark Patterns: The Ways Websites Trick Us Into Giving Up Our
Privacy},
url={https://gizmodo.com/dark-patterns-how-websites-are-tricking-you-into-giving-up-1794734134},
journal={Gizmodo},
author={Nield, David},
year={2017},
month={Apr}
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@MISC{Jackson2023,
  author = {Jackson, T.},
  title = "{$How To Create \& Write Out Your Strategic Objectives}",
  url = {
  https://www.clearpointstrategy.com/blog/how-to-write-strategic-objectives},
  urldate = {March 2},
  year = {2023},
  address = {[Accessed in March 2023]}
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  author = {MrFill},
  title = {Home},
  url = {https://www.mr-fill.com/nl/},
  urldate = {2020},
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  title = "{Advantages of Spring Boot}",
  url = {https://www.adservio.fr/post/advantages-of-spring-boot},
  urldate = {April 18, 2022},
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  author = {altexsoft},
  title = "{The Good and the Bad of C# Programming}",
  url = {https://www.altexsoft.com/blog/c-sharp-pros-and-cons/},
  urldate = {October 29, 2021},
  year = {2021},
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  author = {BinE},
  title = "{Smart Waste Bin}",
  url = {https://www.conurets.com/smart-bin-solutions/},
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  url = {https://www.trendhunter.com/slideshow/littering-campaigns},
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  title = "{Zero Waste Cities: Wie sich Müll in Städten vermeiden lässt. Süddeutsche Zeitung}",
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  title  = "{6 Pros and 3 Cons of Ionic Development}",
  url    =
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  title   = "{Mastering Recycling in Public Spaces}",
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  urldate = {January 2018},
  year    = {2018},
  address = {[Accessed in March 2023]},
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  url    = {https://builtin.com/design-ux/gamification},
  urldate = {June 2022},
  year    = {2022},
  address = {[Accessed in March 2023]},
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@MISC{Recyclenow2023,
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  title   = {Paper},
  url    = {https://www.recyclenow.com/recycle-an-item/paper},
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  title   = "{Communities Making Public Space Recycling Programs Work}",
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  urldate = {March 2022},
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@MISC{Letscleanupeurope2022,
  author  = {Letscleanupeurope},
  title   = "{Let's Clean Up Europe}",
  url     = {https://letscleanupeurope.de/},
  urldate = {2022},
  year    = {2022},
  address = {[Accessed in March 2023]},
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  title   = "{Zero Waste Europe}",
  url     = {https://zerowasteeurope.eu/#updates},
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  year    = {2018},
  address = {[Accessed in March 2023]},
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  title={Gamification Models},
  author={Kate Shoup, Kris Duggan},
  year={2013},
  isbn={9781118466933},
  publisher={For Dummies}
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@BOOK{Psychologie2018,
  title={ Psychologie und Nachhaltigkeit: Konzeptionelle Grundlagen},
  author={Schmitt, Claudia Thea, and Eva Bamberg},
  year={2018},
  isbn={978-3-658-19965-4},
  publisher={Springer Fachmedien Wiesbaden}
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  year={2018},
  isbn={978-3-658-19965-4},
  publisher={Springer Fachmedien Wiesbaden}
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  author = {Alexander, C. and Smaje, C. and Timlett, R. and Williams, I.},
  title = {Improving social technologies for recycling},
  journal = {Proceedings of the Institution of Civil Engineers - Waste and Resource Management},
  volume = {162},
  number = {1},
  pages = {15-28},
  year = {2009},
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doi = {10.1680/warm.2009.162.1.15},
URL = {https://doi.org/10.1680/warm.2009.162.1.15},
eprint = {https://doi.org/10.1680/warm.2009.162.1.15},
abstract = { Although kerbside recycling participation rates have been well studied, little consideration has been paid to dense housing, especially high-rise estates, even though such areas have particularly low participation rates. Because such areas present infrastructural difficulties for recyclates storage and collections, reduced service often results. Nevertheless, solutions still emphasise communication strategies and householder responsibility over adequate infrastructural provision. This paper draws together three empirically based analyses focusing on the improvement of waste collection procedures and infrastructural design for high- and low-rise dense housing. Two sites were studied: an inner London estate and Portsmouth. Both sites have minimal storage space either within the home or in external private, communal or public areas. Both areas have high churn rates. Analysis of the findings suggests that consideration needs to be given to several factors: social, architectural, technological, infrastructural and organisational. Communication strategies need to be simple and consistent and need to acknowledge non-Anglophone residents. Spatial ownership needs to be clearly demarcated and maintained. Solutions must be tailored to existing exigencies of the built environment (such as poor vehicular access) and need to include broader infrastructural factors such as functioning lifts and convenient, safe storage facilities. New-build is better placed to integrate a flexible collection infrastructure. However, pressure to increase housing density is providing a continuing challenge to design appropriate storage and collection infrastructures.}
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  title = {Will they recycle? Design and implementation of eco-feedback technology to promote on-the-go recycling in a university environment},
  journal = {Resources, Conservation and Recycling},
  volume = {114},
  pages = {72-79},
  year = {2016},
  issn = {0921-3449},
  doi = {https://doi.org/10.1016/j.resconrec.2016.06.024},
  url =
{https://www.sciencedirect.com/science/article/pii/S0921344916301616},
  author = {Eliana Mozo-Reyes and Jenna R. Jambeck and Patricia Reeves and Kyle Johnsen},
  keywords = {Recycling, Solid waste management, Recycle bin, Human-computer interaction},
  abstract = {Recycling rates have plateaued and recycling in public spaces has been targeted as a component that can help increase overall recycling rates. Eco-feedback technology and environmental psychology were combined to study recycling in a semi-public space in multiple social environments. A low-cost, low-energy electronic recycling bin design (WeRecycle bin) uses human-computer interaction and social principles to provide behavior-changing eco-feedback. Using mixed-methods research, we tested the WeRecycle bin in three different experiments by varying social
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settings and time of exposure, documenting impacts for public recycling.
Results show that simple low-energy, low-cost eco-feedback technology
resulted in statistically significant increases in recycling activity and
can be an important tool in the promotion of recycling activity outside the
home.}
}

@book{Handbuch2018,
  title = "Handbuch Littering",
  year = "2008",
  url =
"https://www.sg.ch/content/dam/sgch/umwelt-natur/umwelt/dokumente/abfall/Han-
dbuch_Littering.pdf",
  author = {Till Berger and Annick Staub and Johannes Heeb},
  publisher = {Seecon, GmbH},
  note      = {An optional note},
}

@phdthesis{environmentalethics,
  author      = {Corina Seidl},
  title       = {Umweltethische Prozesse in Unternehmen. Ein Überblick mit
Praxisbeispielen},
  school      = {Rechtswissenschaftliche Fakultät der Paris-Lodron-
Universität Salzburg},
  year        = {2017},
  month       = {5}
}

@MISC{unitednations,
  author = "{United Nations}",
  title  = "{Goals - Education}",
  url    = {https://sdgs.un.org/goals/goal4},
  urldate = {2023},
  year   = {2023},
  address = {[Accessed in March 2023]}
}

@article{Bouwma2018,
  title = {Adoption of the ecosystem services concept in EU policies},
  journal = {Ecosystem Services},
  volume = {29},
  pages = {213-222},
  year = {2018},
  note = {Legal Aspects of Ecosystem Services},
  issn = {2212-0416},
  doi = {https://doi.org/10.1016/j.ecoser.2017.02.014},
  url = {https://www.sciencedirect.com/science/article/pii/S2212041617301018},
  author = {Irene Bouwma and Christian Schleyer and Eeva Primmer and Klara
Johanna Winkler and Pam Berry and Juliette Young and Esther Carmen and Jana
Špulerová and Peter Bezák and Elena Preda and Angheluta Vadineanu},
  keywords = {Ecosystem services, European Union, Directives, Policies},
```

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abstract = {The concept of ecosystem services has gained a strong political profile during the last 15 years. However, there is no specific EU policy devoted to governing ecosystem services. This article shows that the ecosystem services concept is already embedded in recent EU (environmentally-related) policies, such as the Biodiversity Strategy 2020 and the Invasive Alien Species Regulation. Our review of 12 policies shows that, overall, the coherence between existing policies and the ecosystem services concept is moderate. Policies showing very high coherence are confined to the policy arenas that address natural ecosystems, forestry, or agriculture. Given the sectoral nature of most EU policies and the limited options for revision in the near future, opportunities for improving coherence are most apparent in furthering the integration of the ecosystem services concept in the implementation of existing EU policies at national and regional levels.}
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}

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@MISC{Dametis,  
  author = {Dametis},  
  title = "{ISO 50001-Standard: Definition und Vorteile}",  
  url = https://www.dametis.com/de/iso-50001-standard-definition-und-vorteile/,  
  urldate = {2022},  
  year = {2022},  
  address = {[Accessed in March 2023]}  
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@article{Ilgin2010,  
  title = {Environmentally conscious manufacturing and product recovery (ECMPRO): A review of the state of the art},  
  journal = {Journal of Environmental Management},  
  volume = {91},  
  number = {3},  
  pages = {563-591},  
  year = {2010},  
  issn = {0301-4797},  
  doi = {https://doi.org/10.1016/j.jenvman.2009.09.037},  
  url = {https://www.sciencedirect.com/science/article/pii/S0301479709003417},  
  author = {Mehmet Ali Ilgin and Surendra M. Gupta},  
  keywords = {Closed-loop supply chains, Disassembly, Environmentally conscious manufacturing, Environmentally conscious product design, Product recovery, Remanufacturing, Reverse logistics},  
  abstract = {Gungor and Gupta [1999, Issues in environmentally conscious manufacturing and product recovery: a survey. Computers and Industrial Engineering, 36(4), 811-853] presented an important review of the development of research in Environmentally Conscious Manufacturing and Product Recovery (ECMPRO) and provided a state of the art survey of published work. However, that survey covered most papers published through 1998. Since then, a lot of activity has taken place in EMCPR0 and several areas have become richer. Many new areas also have emerged. In this paper we primarily discuss the evolution of EMCPR0 that has taken place in the last decade and discuss the new areas that have come into focus during this time.}}
```

After presenting some background information, the paper systematically investigates the literature by classifying over 540 published references into four major categories, viz., environmentally conscious product design, reverse and closed-loop supply chains, remanufacturing, and disassembly. Finally, we conclude by summarizing the evolution of ECMPRO over the past decade together with the avenues for future research.}

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  author = {Nell Lewis},
  title = {How cities are using technology to solve their trash problem},
  url =
{https://edition.cnn.com/2019/11/27/business/technology-and-trash-intl/index.html},
  urldate = {2022},
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  address = {[Accessed in April 2023]}
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@MISC{Wandler,
  author = {Reiner Wandler},
  title = {Portugal verfehlt Recycling-Ziel: Müllpolitik ist gescheitert},
  url = {https://taz.de/Portugal-verfehlt-Recycling-Ziel/!5703485/},
  urldate = {2023},
  year = {2020},
  address = {[Accessed in April 2023]}
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@MISC{Werner,
  author = {Stefanie Werner},
  title = {"Bewertung und Quantifizierung von Auswirkungen mariner Abfälle auf Meeresorganismen"},
  url =
{https://www.umweltbundesamt.de/sites/default/files/medien/479/publikationen/texte_146-2021_bewertung_und_quantifizierung_von_auswirkungen_mariner_abfaelle_auf_meeresorganismen.pdf},
  urldate = {2023},
  year = {2021},
  address = {[Accessed in April 2023]}
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@MISC{Demary,
  author = {Verena Demary},
  title = {"Gleichzeitig: Wie vier Disruptionen die deutsche Wirtschaft verändern"},
  url =
{https://www.iwkoeln.de/studien/wie-vier-disruptionen-die-deutsche-wirtschaft-veraendern-herausforderungen-und-loesungen.html},
  urldate = {2023},
  year = {2021},
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    address = {[Accessed in April 2023]}

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  title = "Official Journal of the European Union",
  year = "2008",
  url = "https://eur-lex.europa.eu/legal-
content/EN/TXT/PDF/?uri=CELEX:32008L0098&from=EN",
  author = {European Union},
  publisher = {European Union},
  note = {An optional note},
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@MISC{McClure,
  author = {B. McClure},
  title = {How much do influencers charge per post?},
  url =
{https://impact.com/partnerships/how-much-do-influencers-charge-per-post/},
  urldate = {2023},
  year = {2023},
  address = {[Accessed in April 2023]}
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@MISC{Baulig,
  author = {Andreas Baulig},
  title = "{Viral gehen dank Tik Tok}",
  url =
{https://www.andreasbaulig.de/blog/viral-gehen-dank-tiktok-8-effektive-
tipps},
  urldate = {2023},
  year = {2023},
  address = {[Accessed in April 2023]}
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@MISC{Jumpseller,
  author = {Jumpseller},
  title = "{Sales Ethics: 7 Important Things to Know.}",
  url =
{https://jumpseller.com/learn/sales-ethics-7-important-things-to-know/},
  urldate = {2023},
  year = {2023},
  address = {[Accessed in April 2023]}
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@MISC{Richter,
  author = {Markus Richter},
  title = "{CAF 2020}",
  url =
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moderne-verwaltung/caf-2020-
deutsch.pdf;jsessionid=C91098259C08789F525AB0008BE3062E.1_cid364?__blob=publ
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icationFile&v=6},
  urldate = {2021},
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@InProceedings{Reis2020,
  author="dos Reis, Alexandre Soares
  and Gielen, Elien
  and Wopereis, Ko
  and Pasternak, Marcel
  and Sooäär, Vaido
  and Schneider, Tobias
  and Duarte, Abel J.
  and Malheiro, Benedita
  and Justo, Jorge
  and Ribeiro, Cristina
  and Silva, Manuel F.
  and Ferreira, Paulo
  and Guedes, Pedro",
  editor="Silva, Manuel F.
  and Luís Lima, José
  and Reis, Luís Paulo
  and Sanfeliu, Alberto
  and Tardioli, Danilo",
  title="Smart Companion Pillow -- An EPS@ISEP 2019 Project",
  booktitle="Robot 2019: Fourth Iberian Robotics Conference",
  year="2020",
  publisher="Springer International Publishing",
  address="Cham",
  pages="465--476",
  abstract="This paper describes the design and development of a Smart Companion Pillow, named bGuard, designed by a multinational and multidisciplinary team enrolled in the European Project Semester (EPS) at Instituto Superior de Engenharia do Porto (ISEP) in the spring of 2019. Nowadays, parents spend most of the day at work and become naturally worried about the well-being of their young children, specially babies. The aim of bGuard is to provide a 24-hour remotely accessible baby monitoring service, contributing to reduce parenting stress. The team, based on the survey of related products, as well as on marketing, sustainability, ethics and deontology analyses, developed a remotely interactive Smart Companion Pillow to monitor the baby's health and room air quality. The collected data, once it is saved on an Internet of Things (IoT) platform, becomes remotely accessible. The bGuard pillow, thanks to its shape, reduces the risk of the baby rolling from back to tummy, lowering the risk of Sudden Infant Death Syndrome (SIDS).",
  isbn="978-3-030-36150-1"
}

@article{Lee2018,
  title = "Design and Implementation of Monitoring System Architecture for
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Smart Bicycle Platform",
  journal = "Procedia Computer Science",
  volume = "134",
  pages = "464--469",
  year = "2018",
  note = "The 15th International Conference on Mobile Systems and
Pervasive Computing (MobiSPC 2018) / The 13th International Conference on
Future Networks and Communications (FNC-2018) / Affiliated Workshops",
  issn = "1877-0509",
  doi = "https://doi.org/10.1016/j.procs.2018.07.182",
  url =
"http://www.sciencedirect.com/science/article/pii/S1877050918311475",
  author = "YeongKyun Lee and Jongpil Jeong",
  keywords = "Remote monitoring, Wireless sensor network, Smart phone
based monitoring, Bicycle monitoring",
  abstract = "This paper proposes the smart phone as a central monitoring
device for the bicycle and the WIFI network as a communication channel
between the smart phone and the sensors. It will show how to implement the
sensor boards with WIFI and relevant firmware, the software on the smart
phone to communicate with the sensor boards and the evaluation results with
the open source software called Goldencheetah. The knowledge in this paper
is not limited to bicycles but can be expanded to any other monitoring
systems using the remote sensors based on smart phone."
}

@article{Ranjith2020,
  title = "Prediction of Exhaust Gas Emission characteristics using Neem
oil blended bio-diesel in diesel engine",
  journal = "Materials Today: Proceedings",
  volume = "21",
  pages = "870 - 875",
  year = "2020",
  note = "International Conference on Recent Trends in Nanomaterials for
Energy, Environmental and Engineering Applications",
  issn = "2214-7853",
  doi = "https://doi.org/10.1016/j.matpr.2019.07.706",
  url =
"http://www.sciencedirect.com/science/article/pii/S2214785319329116",
  author = "Ranjith and V. Velmurugan and S. Thanikaikarasan",
  keywords = "Accelerometer, Diesel engine, Neem oil, Renewable,
Alternative, Viscosity, Volatility",
  abstract = "As a renewable, sustainable and alternative fuel for diesel
engine, biodiesel instead of diesel has been increasingly fuelled to study
its effects on engine performances and emissions. Biodiesel production is a
modern and technological area for researchers due to constant increase in
the prices of petroleum, diesel, and environmental advantages. Increased
environmental awareness and depletion of resources are driving industry to
develop viable alternative fuels from renewable resources that are
environmentally more acceptable. Neem oil is a potential alternative fuel.
The most detrimental properties of neem oils are its high viscosity and low
volatility, and these cause several problems during their long duration
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usage in diesel engines. From the review it is found that the use of biodiesel leads to the substantial reduction in CO<sub>2</sub>, HC, CO and NO<sub>x</sub> emissions."

}

@article{Sobhani2018,  
 title = "Impact of smartphone distraction on pedestrians crossing behaviour: An application of head-mounted immersive virtual reality",  
 journal = "Transportation Research Part F: Traffic Psychology and Behaviour",  
 volume = "58",  
 pages = "228 - 241",  
 year = "2018",  
 issn = "1369-8478",  
 doi = "https://doi.org/10.1016/j.trf.2018.06.020",  
 url =  
 "http://www.sciencedirect.com/science/article/pii/S1369847818300998",  
 author = "Anae Sobhani and Bilal Farooq",  
 keywords = "Head-mounted immersive virtual reality, Pedestrian, Distracted street crossing, Multi-tasking, Smartphone use, Surrogate analysis, Smart LED lights safety treatment",  
 abstract = "A novel head-mounted virtual immersive/interactive reality environment (VIRE) is utilized to evaluate the behaviour of participants in three pedestrian road crossing conditions while 1) not distracted, 2) distracted with a smartphone, and 3) distracted with a smartphone with a virtually implemented safety measure on the road. Forty-two volunteers participated in our research who completed thirty successful (complete crossing) trials in blocks of ten trials for each crossing condition. For the two distracted conditions, pedestrians are engaged in a maze-solving game on a virtual smartphone, while at the same time checking the traffic for a safe crossing gap. For the proposed safety measure, smart flashing and color changing LED lights are simulated on the crosswalk to warn the distracted pedestrian who initiates crossing. Surrogate safety measures as well as speed information and distraction attributes such as direction and orientation of participants head were collected and evaluated by employing a Multinomial Logit (MNL) model. Results from the model indicate that females have more dangerous crossing behaviour especially in distracted conditions; however, the smart LED treatment reduces this negative impact. Moreover, the number of times and the percentage of duration the head was facing the smartphone during a trial and a waiting time respectively increase the possibility of unsafe crossings; though, the proposed treatment reduces the safety crossing rate. Hence, our study shows that the smart LED light safety treatment indeed improves the safety of distracted pedestrians and enhances the successful crossing rate."  
}

@article{Obayashi2020,  
 title = "Pilot and Feasibility Study on Elderly Support Services Using Communicative Robots and Monitoring Sensors Integrated With Cloud Robotics",  
 journal = "Clinical Therapeutics",  
 year = "2020",

```
issn = "0149-2918",
doi = "https://doi.org/10.1016/j.clinthera.2020.01.001",
url =
"http://www.sciencedirect.com/science/article/pii/S0149291820300278",
author = "Kazuko Obayashi and Shigeru Masuyama",
keywords = "activities of daily living, cloud robotics, communicative
robot, elderly care, robotics utilization, support services",
abstract = "Purpose
```

This pilot before-after study investigated the possible effects of communicative robots, used with a sensing system supported by cloud robotics, in caring for elderly people.

#### Methods

Two elderly women in nursing homes and 4 care workers participated in the trial. The overnight life rhythm assessments of the study participants and care workers were surveyed to determine when and how the robots should be integrated into care. The system consisted of the robot Sota, a noncontact vital sensor and a sheet-shaped bed sensor. Real-time sensing data and conversations between the participants and robots were sent to the servers, prompting a quick verbal response by the robot supported by cloud robotics.

#### Findings

Care workers devoted 3 h to the maintenance of records during their most stressful periods. Automatic recording of vital information using robot sensors can improve the quality of nursing care work. Care workers' stress levels were maximized when responding to nurse calls. Temporary responses to nurse calls by the robots may help to effectively reduce the burden on nursing care workers. Robots can stimulate elderly people to communicate more with others ( $P < 0.05$ ). Appropriate vocalization by communicative robots may prevent the deterioration of quality of life in elderly individuals.

#### Implications

Communicative robots, used with a sensing system, may stimulate elderly people to activate a communication link with others and help care workers to effectively reduce the burden during the night shift. A follow-up study involving a broader research program on communicative robots and elderly care would be beneficial."

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}
```

```
@article{Thapa2019,
  title = "Study on the wintry thermal improvement of makeshift shelters
built after Nepal earthquake 2015",
  journal = "Energy and Buildings",
  volume = "199",
  pages = "62 - 71",
  year = "2019",
  issn = "0378-7788",
  doi = "https://doi.org/10.1016/j.enbuild.2019.06.031",
  url =
"http://www.sciencedirect.com/science/article/pii/S0378778819306309",
  author = "Rita Thapa and Hom Bahadur Rijal and Masanori Shukuya and
Hikaru Imagawa",
```

```
    keywords = "Nepal, Earthquake, Temporary shelters, Indoor air
temperature, Thermal insulation, Thermal improvement",
    abstract = "After massive earthquake 2015, thousands of Nepalese who
lost their permanent houses by the hardest hits were forced to live in
makeshift temporary shelters. The field measurement on indoor thermal
environment in five shelters was conducted in one of the district hit by the
earthquake, Lalitpur, in winter. The mean indoor and outdoor air
temperatures during the measured nighttime were found to be 10.3 °C and 7.6
°C, respectively, and the nocturnal indoor air temperature remained below
the lowest acceptable temperature of 11 °C. This result assured that these
shelters are not good for winter and must create various problems. We
therefore analyzed the thermal characteristics of those shelters based on
the measured results in order to seek a possible improvement. The total heat
loss coefficient estimated per floor area in five shelters ranged from 11.3
to 15.2 W/(m²·K); that is thermal insulation was very low. We made a simple
numerical analysis on the variation of indoor air temperature with the
assumption of improved thermal characteristics and thereby found that it
needs to be reduced about 2~7 W/(m²·K) to have the indoor air temperature
higher than 11 °C for 70% of the whole nocturnal hours. Such reduction of
heat loss was found to be realized by adding affordable materials, e.g.,
cellular polyethylene foam and clothes for respective walls and roof. Thus,
the knowledge obtained from this study should hopefully be applied to actual
improvement of indoor thermal environment in existing shelters and also to a
development for the preparation against future disaster."
}
```

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@MISC{gartner2021,
  author = "{Gartner}",
  title = "{Gartner Magic Quadrant for Data Science and Machine Learning
Platforms}",
  url = "{https://www.gartner.com/en/documents/3998753}",
  urldate = "{March 2021}",
  year = "{2021}",
  address = "[Accessed in April 2021]",
}
```

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@MISC{android41,
  author = "{Android Open Source Project}",
  title = "{Android Developers: Android 4.1 APIs}",
  url =
"{http://developer.android.com/about/versions/android-4.1.html}",
  urldate = "{May 2014}",
  year = "{2014}",
  address = "[Accessed in April 2017]",
}
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@MISC{cloudexpo2008,
  AUTHOR = "{Cloud Expo}",
  title = "{Twenty-One Experts Define Cloud Computing}",
  url = "{http://cloudcomputing.sys-con.com/node/612375}",
  urldate = "{October 2013}",
```

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year      = "{2008}",
address  = "[Accessed in April 2021]}",
}

@BOOK{Bandyopadhyay2013,
  title={Unsupervised Classification: Similarity Measures, Classical and
Metaheuristic Approaches, and Applications},
  author={Bandyopadhyay, Sanghamitra and Saha, Sriparna},
  year={2013},
  isbn={978-3-642-32450-5},
  publisher={Springer},
  address = {Berlin, Germany},
  doi = {10.1007/978-3-642-32451-2}
}

@ARTICLE{Llorente2009,
  author = "Sotomayor, B. and Montero, Ruben S. and Llorente, I.M. and
Foster, I." ,
  journal = "Internet Computing, IEEE",
  title = "Virtual Infrastructure Management in Private and Hybrid
Clouds",
  year = "2009",
  month = "Sept",
  volume = "13",
  number = "5",
  pages = "14-22",
  abstract = {One of the many definitions of "cloud" is that of an
infrastructure-as-a-service (IaaS) system, in which IT infrastructure is
deployed in a provider's data center as virtual machines. With IaaS clouds'
growing popularity, tools and technologies are emerging that can transform
an organization's existing infrastructure into a private or hybrid cloud.
OpenNebula is an open source, virtual infrastructure manager that deploys
virtualized services on both a local pool of resources and external IaaS
clouds. Haizea, a resource lease manager, can act as a scheduling back end
for OpenNebula, providing features not found in other cloud software or
virtualization-based data center management software.},
  doi = {10.1109/MIC.2009.119}
}

@article{Mulder2013,
  title = "Development of a Motion System for an Advanced Sailing
Simulator",
  journal = "Procedia Engineering",
  volume = "60",
  number = "0",
  pages = "428 - 434",
  year = "2013",
  note = "6th Asia-Pacific Congress on Sports Technology (APCST) " ,
  issn = "1877-7058",
  doi = "http://dx.doi.org/10.1016/j.proeng.2013.07.030",
}

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url =
"http://www.sciencedirect.com/science/article/pii/S1877705813010813",
author = "Fabian A. Mulder and Jouke C. Verlinden",
keywords = "Sailing",
keywords = "Dinghy",
keywords = "Virtual reality",
keywords = "Training simulation",
keywords = "Force feedback",
abstract = "Abstract To train competitive sailing in a virtual setting, motion of the boat as well as haptic feedback of the sail lines is essential. When discussing virtual environments (VEs) the concept of presence is often used. In this study we develop a sailing simulator motion system to research what factors contribute to the participants' sensation of presence when sailing in a VE. The developed simulator includes the development of a mainsheet force feedback system and a novel motion platform, connected to a high-quality graphics sailing simulation. In future research, the developed system will be used to study which sail training type can be performed in simulated environments, and if the system can be used as a valid testbed for perception-action experiments."
}

@article{Mahn2006,
title = {A BEHAVIOUR-BASED NAVIGATION SYSTEM FOR AN AUTONOMOUS INDOOR BLIMP},
journal = {IFAC Proceedings Volumes},
volume = {39},
number = {16},
pages = {837-842},
year = {2006},
note = {4th IFAC Symposium on Mechatronic Systems},
issn = {1474-6670},
doi = {https://doi.org/10.3182/20060912-3-DE-2911.00144},
url = {https://www.sciencedirect.com/science/article/pii/S1474667015342725},
author = {Manuel Mahn and Markus Kemper},
keywords = {control, indoor navigation},
abstract = {This paper describes a behaviour-based navigation system for airborne autonomous robots. The work has been validated by controlling an indoor blimp with a finite-state machine. It is shown that behaviour-based navigation, especially concerning mobile robots for indoor applications, is predestined to perform reconnaissance of unknown areas and moreover for navigation tasks in familiar environment. Due to the inability of most autonomous indoor aerial vehicles to carry heavy sensors, these systems lack of metrical information and therefore the explicit localization is yet impossible until today. The behaviour-based navigation is combined with a variety of path-planning methods (tree-search, potential fields, etc.) using obstacle-maps of known surroundings enabling the robot to acquire a desired position in a correspondent cluster of rooms.}
}

@INPROCEEDINGS{Khan2018,
author={Khan, Tareq},
```

```
booktitle={2018 IEEE International Conference on Electro/Information  
Technology (EIT)},  
title={A Smart Wearable Gadget for Noninvasive Detection and Notification  
of Diaper Moister},  
year={2018},  
volume={},  
number={},  
pages={0240-0244},  
abstract={Wearing a wet diaper for a long time can be uncomfortable and  
cause health issues such as diaper rash. The best way to avoid diaper rash  
is to change the diaper often and as soon as possible after the baby  
urinates or passes stool. Daycare caregivers or parents sometimes forget or  
do not have time to manually check the diaper condition of the babies  
throughout the day. In this age of smart devices, many people are busy with  
their cell phones or tablets for social networking, texting, gaming, music  
etc. In this project, a novel wearable gadget is developed which sends an  
automatic notification to caregivers smart devices whenever the baby  
urinates. The proposed wearable detects urination event noninvasively by  
sensing the temperature rise on the outer surface of the diaper. The gadget  
is a small size, low power, low cost and reusable electronic device that is  
attached externally to the outer surface of the diaper using hook-and-loop  
fasteners. The gadget can be used with any disposable diaper, thus no change  
in the diaper production process or price increase is required. The  
smartphone app logs the urination events and creates databases and reports.  
This record can facilitate treating disease such as dehydration, where  
accurate previous records of urination are required. A prototype of the  
hardware gadget and a smartphone app is developed and tested.},  
keywords={},  
doi={10.1109/EIT.2018.8500233},  
ISSN={2154-0373},  
month={May},  
}
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