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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
Smart Bicycle Platform",
    journal = "Procedia Computer Science",
    volume = "134",
    pages = "464--469",
    year = "2018",
    note = "The 15th International Conference on Mobile Systems and
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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
usage in diesel engines. From the review it is found that the use of
biodiesel leads to the substantial reduction in CO2, HC, CO and NOx
emissions."
}

@article{Sobhani2018,
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    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{CHIRADEJA20233355,
    title = {Development of public lighting system with smart lighting
control systems and Internet of Things (IoT) technologies for smart city},
    journal = {Energy Reports},
    volume = {10},
    pages = {3355-3372},
    year = {2023},
    issn = {2352-4847},
    doi = {https://doi.org/10.1016/j.egyr.2023.10.027},
    url =
{https://www.sciencedirect.com/science/article/pii/S2352484723014622},
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    author = {Pathomthat Chiradeja and Suntiti Yoomak},
    keywords = {Public lighting system, Light control, Lighting quality,
Smart city, Internet of thing, LED luminaire},
    abstract = {This study proposes the design and development of public
light systems integrated with Internet of Things (IoT) applications for
smart cities. Smart public lighting systems are designed using LED light
sources in combination with a controller based on light intensity and motion
sensors to control the brightness in working areas as per standard
requirements. The control of smart public lighting systems is designed to
operate in three modes: manual, scheduled, and auto modes, which are tested
and compared in terms of lighting and power quality. Other functions of IoT,
such as air pollution detection, security system-based video surveillance,
and warning systems for flood disasters, are integrated into smart public
lighting systems. A prototype of the designed smart public lighting system
is presented in this paper. The parameters of average illuminance, overall
uniformity, and threshold increment were implemented using DIALux software
to optimise the luminaire spacing. The results showed that the goal of
energy saving could be achieved using the auto mode. Although the automatic
mode caused current harmonic distortion to the electrical grid, the harmonic
value was less than the specified standard. Furthermore, the precision of
IoT system operation was dependent on environmental variations and the
reliability of wireless network technology.}
}

@article{ABUGA2021103347,
    title = {Real-time smart garbage bin mechanism for solid waste
management in smart cities},
    journal = {Sustainable Cities and Society},
    volume = {75},
    pages = {103347},
    year = {2021},
    issn = {2210-6707},
    doi = {https://doi.org/10.1016/j.scs.2021.103347},
    url =
{https://www.sciencedirect.com/science/article/pii/S2210670721006223},
    author = {Dominic Abuga and N.S Raghava},
    keywords = {Fuzzy logic, Fuzzy expert system, Smart cities, Smart
garbage bin, Netlogo},
    abstract = {Unprecedented urbanization and rapid population growth have
increased waste generated annually posing challenges to cities globally. The
annual World Health Organization reports indicate that many people die from
preventable diseases as a result of improper waste disposal and management.
The provision of garbage bins is inadequate in the management of solid waste
in smart cities. The major problem is that garbage bins fill up quickly, and
it takes time for the municipal workers to empty the bins. This paper
focuses on a real-time smart garbage bin mechanism for solid waste
management in smart cities. Conventional garbage collection and management
systems have many shortcomings, including inaccessibility to actual data
required, lack of throughput, and late unloading. The mechanism proposed
accesses real-time information of any smart garbage bin deployed across the
city and helps to resolve the problem of waste overflow from garbage bins
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and keep the smart cities clean. Fuzzy logic is applied in the strategic deployment of smart garbage bins across the smart cities. The system is implemented on Net-logo which is widely used in multi-agent modelling environments. The significant advantage of the system is its novelty in real-time decision-making and real-time monitoring using the fuzzy logic process.}
}

@article{CHESHER2023100055,
    title = {Discovering smart: Early encounters and negotiations with smart street furniture in London and Glasgow},
    journal = {Digital Geography and Society},
    volume = {4},
    pages = {100055},
    year = {2023},
    issn = {2666-3783},
    doi = {https://doi.org/10.1016/j.diggeo.2023.100055},
    url = {https://www.sciencedirect.com/science/article/pii/S2666378323000077},
    author = {Chris Chesher and Matthew Hanchard and Justine Humphry and Peter Merrington and Justine Gangneux and Simon Joss and Sophia Maalsen and Bridgette Wessels},
    keywords = {Mixed methods, Local government, Science and technology studies, Discovery, social construction of technology, Smart cities, Street furniture},
    abstract = {In the late 2010s, publics in the UK encountered new kinds of street furniture: Strawberry Energy Smart benches in London and InLinkUK kiosks in Glasgow, with smart features such as phone charging, free Wi-Fi, free phone calls, information screens and environmental data. This article analyses how smart street furniture is socially constructed by relevant social groups, each with different interests, forms of power and meanings. Smartness became associated not only with advanced technologies, but with a neoliberal agenda of private-public partnerships promising urban transformations, such as free devices for councils and citizens in exchange for access to advertising or sponsorship space in public places. The research examined the design, use and governance of new types of smart street furniture using mixed methods, including document analysis of promotional and regulatory texts, site observations of these devices, and interviews. We found that the uses and meanings of these devices were discovered at different moments by technology companies, local councils, and the public. Few members of the public knew about the devices, and showed little interest in them, even if they were the assumed users. An exception was gig workers and people experiencing homelessness who found uses for the smart features and a community activist who campaigned against these as surveillant and intrusive. Businesses and councils embraced smart city visions but took multiple approaches to agreements for the implementation and governance of smart street furniture. Notably, these more powerful groups discovered and negotiated the meanings of smart street furniture well before these were publicly encountered. This article reveals how a social construction of technology (SCOT) approach is strongest when it accounts for the relative power of social groups in struggles over meanings and
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resources. It provides empirical information on everyday sociotechnical
encounters that provide nuanced evidence for wider critiques of smart city
agendas.}
}

@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."
}

@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."
}

@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]}",
}

@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}",
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  urldate = "{May 2014}",
  year    = "{2014}",
  address = "{[Accessed in April 2017]}",
}

@MISC{solarbench,
  author  = "{HOLA Systems}",
  title   = "{Smart Solar Bench – a modern solution for urban spaces}",
  url     =
"{https://hola.rs/en/blog/smart-solar-bench-a-modern-solution-for-urban-spac
es/}",
  urldate = "{22 December 2022}",
  year    = "{2022}",
  address = "{[Accessed in March 2024]}",
}

@MISC{bench,
  author  = "{EnGoPlanet}",
  title   = "{What is the Smart Solar Bench?}",
  url     =
"{https://www.engoplanet.com/single-post/what-is-smart-solar-bench}",
  urldate = "{22 December 2023}",
  year    = "{2023}",
  address = "{[Accessed in March 2024]}",
}

@MISC{cloudexpo2008,
  AUTHOR  = "{Cloud Expo}",
  title   = "{Twenty-One Experts Define Cloud Computing}",
  url     = "{http://cloudcomputing.sys-con.com/node/612375}",
  urldate = "{October 2013}",
  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
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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",
    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
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attached externally to the outer surface of the diaper using hook-and-Ioop
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},
}

@MISC{Project,
  AUTHOR  = {Lavanya N. and Malarvizhi T.},
  title   = "{Risk analysis and management}",
  url     =
"{https://www.pmi.org/learning/library/risk-analysis-project-
management-7070}",
  urldate = "{March 2008}",
  year    = "{2008}",
  address = "{[Accessed in March 2024]}",
}

@MISC{irrigation,
  AUTHOR  = {Céline Bernard},
  title   = "{Smart water management: 5 innovative solutions to water
scarcity offered by the IoT}",
  url     =
"{https://saft.com/energizing-iot/smart-water-management-5-innovative-soluti
ons-water-scarcity-offered-iot}",
  urldate = "{22 March 2022}",
  year    = "{2022}",
  address = "{[Accessed in March 2024]}",
}

@MISC{arcade,
  AUTHOR  = {Video Amusement},
  title   = "{Customizing Whac-A-Mole Games}",
  url     =
"{https://www.videoamusement.com/news/customizing-whac-a-mole-games/}",
  urldate = "{2020}",
  year    = "{2020}",
  address = "{[Accessed in March 2024]}",
}


@MISC{arcademini,
  AUTHOR  = {amazon},
  title   = "{Tabletop version}",
  url     =
```

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"{https://www.amazon.com/VATOS-Electronic-Pounding-Developmental-Interactive
/dp/B089LQQVGT}",
  urldate = "{2020}",
  year    = "{2020}",
  address = "{[Accessed in March 2024]}",
}

@MISC{hasbro,
  AUTHOR  = {Hasbro},
  title   = "{Electronic Whack a mole Instruction Manual}",
  url     = "{https://www.hasbro.com/common/instruct/whac_a_mole.pdf}",
  urldate = "{2003}",
  year    = "{2003}",
  address = "{[Accessed in March 2024]}",
}



@MISC{smartlight,
  AUTHOR  = {Rob Walker},
  title   = "{City tech | Streetlights Are Getting Smarter—Are We?}",
  url     = "{https://www.lincolninst.edu/publications/articles/city-
tech-14}",
  urldate = "{27 September 2019}",
  year    = "{2019}",
  address = "{[Accessed in March 2024]}",
}

@MISC{facial,
  AUTHOR  = "{Business Reporter}",
  title   = "{Facial recognition in the city | Technology}",
  url     =
"{https://www.business-reporter.co.uk/technology/facial-recognition-in-the-c
ity}",
  urldate = "{27 September 2020}",
  year    = "{2020}",
  address = "{[Accessed in March 2024]}",
}

@MISC{kiosk,
  AUTHOR  = "{Acquire Digital}",
  title   = "{Embracing Technology in Tourism: The Rise of Interactive
Visitor Kiosks}",
  url     =
"{https://acquiredigital.com/blog/embracing-technology-in-tourism-the-rise-o
f-interactive-visitor-kiosks}",
  urldate = "{30 November 2023}",
  year    = "{2023}",
  address = "{[Accessed in March 2024]}",
}

@MISC{EVcharging,
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```
  AUTHOR  = "{ZDWL}",
  title   = "{EV Charging Network Construction}",
  url     = "{https://zdwl-tec.com/news/ev-charging-network-construction/}",
  urldate = "{2023}",
  year    = "{2023}",
  address = "{[Accessed in March 2024]}",
}

@MISC{smartPK,
  AUTHOR  = "{Cleverciti}",
  title   = "{What is Smart Parking? | The future of parking has arrived}",
  url     =
"{https://www.cleverciti.com/en/why-cleverciti/what-is-smart-parking}",
  urldate = "{19 December 2018}",
  year    = "{2018}",
  address = "{[Accessed in March 2024]}",
}

@article{pollutionmonitor,
  AUTHOR = {Sarroeira, Rodrigo and Henriques, João and Sousa, Ana M. and
Ferreira da Silva, Catarina and Nunes, Nuno and Moro, Sérgio and Botelho,
Maria do Carmo},
  TITLE = {Monitoring Sensors for Urban Air Quality: The Case of the
Municipality of Lisbon},
  JOURNAL = {Sensors},
  VOLUME = {23},
  YEAR = {2023},
  NUMBER = {18},
  ARTICLE-NUMBER = {7702},
  URL = {https://www.mdpi.com/1424-8220/23/18/7702},
  PubMedID = {37765759},
  ISSN = {1424-8220},
  ABSTRACT = {Air pollution is a global issue that impacts environmental
inequalities, and air quality sensors can have a decisive role in city
policymaking for future cities. Science and society are already aware that
during the most challenging times of COVID-19, the levels of air pollution
in cities decreased, especially during lockdowns, when road traffic was
reduced. Several pollution parameters can be used to analyse cities'
environmental challenges, and it is more pressing than ever to have city
climate decisions supported by sensor data. We have applied a data science
approach to understand the evolution of the levels of carbon monoxide,
nitrogen dioxide, particulate matter 2.5, and particulate matter 10 between
August 2021 and July 2022. The analysis of the air quality levels, captured
for the first time via 80 monitoring stations distributed throughout the
municipality of Lisbon, has allowed us to realize that nitrogen dioxide and
particulate matter 10 exceed the levels that are recommended by the World
Health Organization, thereby increasing the health risk for those who live
and work in Lisbon. Supported by these findings, we propose a central role
for air quality sensors for policymaking in future cities, taking as a case
study the municipality of Lisbon, Portugal, which is among the European
cities that recently proposed be climate-neutral and smart city by 2030.},
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  DOI = {10.3390/s23187702},
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@book{Oxford,
   author = "{International Trade Centre}",
   title = "Export Quality Management",
   publisher = "United Nations",
   year = "2012",
   url = "https://www.un-ilibrary.org/content/books/9789213614891",
   abstract = "This publication seeks to provide small- and medium-sized
exporters in developing countries and transition economies with a
comprehensive understanding of crucial quality-related issues linked to the
quality infrastructure. Structured in a question and answer format, the book
answers 95 frequently asked questions by exporters about quality, technical
requirements (standards, technical regulations, sanitary and phytosanitary
measures), management systems, conformity assessment (testing, inspection,
certification), metrology, accreditation, and the WTO Agreements on
Technical Barriers to Trade and the Application of Sanitary and
Phytosanitary Measures.",
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@MISC{Sustainabilitywhatisit,
  AUTHOR  = "{TWI}",
  title   = "{What is Sustainability and why is it so Important?}",
  url     =
"{https://www.twi-global.com/technical-knowledge/faqs/faq-what-is-sustainabi
lity}",
  urldate = "{}",
  year    = "{2024}",
  address = "{[Accessed in April 2024]}",
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@MISC{pillarspicture,
  AUTHOR  = "{Gevme}",
  title   = "{The 3 Pillars of Sustainability}",
  url     =
"{https://www.gevme.com/en/blog/the-three-pillars-of-sustainability/}",
  urldate = "{2 May 2023}",
  year    = "{2023}",
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@MISC{Sustainabledevelopmentgoals,
  AUTHOR  = "{United Nations Development Programme}",
  title   = "{Sustainable development goals}",
  url     = "{https://www.undp.org/sustainable-development-goals}",
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  urldate = "{}",
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  address = "{[Accessed in March 2024]}",
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@MISC{overshootday,
  AUTHOR  = "{United Nations Western Europe}",
  title   = "{Why we’re all living on credit for the rest of the year}",
  url     =
"{https://unric.org/en/environment-2-august-overshoot-day-for-earths-resourc
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  urldate = "{1 August 2023}",
  year    = "{2023}",
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@MISC{HPI,
  AUTHOR  = "{Happy Planet Index}",
  title   = "{How Happy is the Planet?}",
  url     = "{https://happyplanetindex.org}",
  urldate = "{}",
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  address = "{[Accessed in March 2024]}",
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@MISC{speedcam,
  AUTHOR  = "{Bertalan Mesko}",
  title   = "{The Swedish Speed Camera Lottery And Healthy Living}",
  url     =
"{https://medicalfuturist.com/swedish-speed-camera-lottery-healthy-
living/}",
  urldate = "{7 June 2018}",
  year    = "{2018}",
  address = "{[Accessed in March 2024]}",
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@MISC{builtin,
  AUTHOR  = {Hal Koss},
  title   = "{Gamification: What It Is and How It Works}",
  url     = "{https://builtin.com/articles/gamification}",
  urldate = "{}",
  year    = "{2022}",
  address = "{[Accessed in March 2024]}",
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@MISC{chou,
  AUTHOR  = {Yu-kai Chou},
  title   = "{Actionable Gamification}",
  url     = "{https://yukaichou.com/gamification-book/}",
  urldate = "{}",
  year    = "{2015}",
  address = "{[Accessed in March 2024]}",
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@MISC{erso,
  AUTHOR  = {Atze Dijkstra},
  title   = "{European Road Safety Observatory}",
  url     =
"{https://road-safety.transport.ec.europa.eu/system/files/2021-07/road_safet
y_thematic_report_pedestrians_tc_final.pdf}",
  urldate = "{}",
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@MISC{iTLI,
  AUTHOR  = "{Partnership Talking Traffic}",
  title   = "{Intelligent TLIs}",
  url     =
"{https://www.talking-traffic.com/en/talking-traffic/clusters-and-expertise/
intelligent-tli-s}",
  urldate = "{}",
  year    = "{2024}",
  address = "{[Accessed in March 2024]}",
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@MISC{volkswagen,
  AUTHOR  = "{Volkswagen}",
  title   = "{The Fun Theory 1 – Piano Staircase Initiative | Volkswagen}",
  url     = "{https://www.youtube.com/watch?v=SByymar3bds}",
  urldate = "{}",
  year    = "{2009}",
  address = "{[Accessed in March 2024]}",
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@MISC{scmp,
  AUTHOR  = "{South China Morning Post}",
  title   = "{Facial recognition technology helps Shenzhen police to
identify jaywalkers}",
  url     = "{https://www.youtube.com/watch?v=ectdRsyj-zI}",
  urldate = "{}",
  year    = "{2018}",
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@MISC{streetpong,
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  AUTHOR  = "{Hawk Hildesheim}",
  title   = "{Hildesheim: StreetPong-Testphase war ein voller Erfolg}",
  url     =
"{https://www.hawk.de/de/newsportal/pressemeldungen/hildesheim-streetpong-te
stphase-war-ein-voller-erfolg}",
  urldate = "{}",
  year    = "{2015}",
  address = "{[Accessed in April 2024]}",
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@article{kibbeum,
    AUTHOR = {Kibbeum Na and Kwanghee Han},
    TITLE = {How leaderboard positions shape our motivation: the impact of
competence satisfaction and competence frustration on motivation in a
gamified crowdsourcing task},
    JOURNAL = {Internet Research},
    VOLUME = {33},
    YEAR = {2023},
    NUMBER = {7},
    URL =
{https://www.emerald.com/insight/content/doi/10.1108/INTR-12-2021-0897/full/
html},
    Pages = {1-18},
    ISSN = {1066-2243},
    ABSTRACT = {Purpose
    Gamification is a booming motivational approach in information systems.
Leaderboards play a key role in gamification; however, there are mixed
findings regarding the heterogeneous motivational impacts of leaderboard
positions. This study aims to clarify the motivational effects of high and
low leaderboard positions by assembling diverse behavioral measures and
self-reports. The measures used in this study shed a light on the
quantitative and qualitative dynamics of motivation facilitated by
leaderboard positions. The authors inspect motivation in relation to
satisfaction and frustration of competence need.
    Design/methodology/approach
    The authors conducted an online experiment set in a crowdsourcing
context, asking the participants to compete in an image tagging game.
Participants' leaderboard positions were manipulated to be either high or
low for five consecutive rounds. The number of clicks, tags, duration of
tagging and persistence on the task were measured as indicators of
motivation.
    Findings
    High ranks on leaderboards induced complacent behaviors choosing easy
ways to maintain their positions, while low ranks led the participants to
stick to the right process of the task with intensified motivation round
after round. However, neither of the motivations seemed to be of intrinsic
nature.
    Originality/value
    The present study provides conclusive evidence on the varying
motivational impact of leaderboard positions. The authors also demonstrate
how the “needs-as-motive” model (Sheldon and Gunz, 2009) applies to
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gamification. Its implications in self-determination theory and gamification
literature are discussed.},
    DOI = {10.1108/INTR-12-2021-0897}
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@article{shiwakoti,
    title = "Development, testing, and evaluation of road safety poster to
reduce jaywalking behavior at intersections",
    journal = "Cognition, Technology & Work",
    volume = "22",
    pages = "389-397",
    year = "2020",
    issn = "1435-5558",
    doi = "https://doi.org/10.1007/s10111-019-00573-4",
    url =
"https://link.springer.com/article/10.1007/s10111-019-00573-4#citeas",
    author = "Nirajan Shiwakoti",
    keywords = "Jaywalking, poster, road safety,",
    abstract = "Jaywalking is a traffic violation that contributes
significantly to vehicle–pedestrian crashes at intersections. Although
public education campaigns have been widely used in road safety, relatively
little research has been conducted to understand the underlying process or
mechanisms that influence their effectiveness for pedestrian safety,
especially jaywalking behavior. This study aims to develop, test, and
evaluate on-road pedestrian safety posters that are based on proven
behavioral change approaches with demonstrated evidence to reduce jaywalking
at intersections. A pedestrian safety poster targeting jaywalking was
developed using several theoretical constructs from well-established
behavioral change models and a questionnaire survey was administered to
pedestrians to gauge their perceptions of the poster. Results showed that
the communication had a significant positive effect in changing respondents'
adaptive intentions. The poster was subsequently installed at two signalized
intersections in Melbourne, Australia, and the before (without) and after
(with) proportions of jaywalkers were observed. Our results showed a
significant decrease in the proportion of jaywalkers after the installation
of the poster. This study showed that Cognition, Technology & Work properly
designed on-site road safety communication could change pedestrian behavior.
It further highlighted the importance of using a well-established conceptual
framework in the development and testing of road safety messages."
}

@MISC{energypolicy,
  AUTHOR  = {Matteo Ciucci},
  title   = "{Energy Policy: General Principles}",
  url     = "{https://happyplanetindex.org}",
  urldate = "{November 2023}",
  year    = "{2023}",
  address = "{[Accessed in March 2024]}",
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  AUTHOR  = {Kara Anderson},
  title   = "{How to Conduct a Life Cycle Assessment}",
  url     =
"{https://greenly.earth/en-gb/blog/company-guide/how-to-conduct-a-useful-life-cycle-assessment}",
  urldate = "{27 March 2023}",
  year    = "{2023}",
  address = "{[Accessed in March 2024]}",
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@MISC{HDPEsustainable,
  AUTHOR  = "{Arete Industries}",
  title   = "{HDPE, What is it and What is it used for?}",
  url     = "{https://areteindustries.us/hdpe-
plastics/#:~:text=HDPE%20plastic%20is%20the%20most,classification%20of%20being%20Eco%2Dfriendly}",
  urldate = "{2015}",
  year    = "{2015}",
  address = "{[Accessed in April 2024]}",
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@MISC{HDPErecycling,
  AUTHOR  = "{Plastic Expert}",
  title   = "{HDPE Plastic Recycling}",
  url     =
"{https://www.plasticexpert.co.uk/plastic-recycling/hdpe-plastic-
recycling/}",
  urldate = "{}",
  year    = "{2021}",
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@article{SSS,
    title = "Stainless steel and sustainability",
    journal = "Aimnet",
    volume = "5",
    pages = "",
    year = "2012",
    issn = "",
    doi = "",
    url = "http://www.aimnet.it/allpdf/pdf_pubbli/mag12/PAYET.pdf",
    author = "P. Payet-Gaspard",
    keywords = "Sustainability, stainless steel, steel, products",
    abstract = ""
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@MISC{hola,
  AUTHOR  = {Nick Barney and Brian Holak},
  title   = "{stakeholder}",
  url     = "{https://www.techtarget.com/searchcio/definition/stakeholder}",
  urldate = "{January 2023}",
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  year    = "{2023}",
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@book{NachhaltigwirtschafteninderPraxis,
  AUTHOR  = {Stefan Theßenvitz},
  title   = "{Nachhaltig Wirtschaften in der Praxis: Empfehlungen,
Arbeitsschritte  Best-Practice-Lösungen Fur̈ Den Betriebsalltag}",
  doi     = {10.1007/978-3-658-42458-9},
  publisher = {Springer Gabler Wiesbaden},
  year    = "{2023}",
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@book{Fuhrung,
  AUTHOR  = {Schemmel, Burkard},
  title   = "{Fuḧrung Von Morgen; Werteorientiert, Kundenfokussiert,
Nachhaltig}",
  url     = "{https://link.springer.com/book/10.1007/978-3-658-37471-6}",
  doi     = "{10.1007/978-3-658-37471-6}",
  year    = "{2023}",
  publisher = "{Springer Gabler Wiesbaden}",
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@MISC{time,
  AUTHOR  = {Edouard Thieuleux},
  title   = "{Supply Chain Lead Time: what is it and how to track it?}",
  url     =
"{https://abcsupplychain.com/track-and-optimize-supply-chain-lead-time/}",
  urldate = "{09 June 2023}",
  year    = "{2023}",
  address = "{[Accessed in March 2024]}",
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@MISC{Eurostat2024,
  AUTHOR  = "{Eurostat}",
  title   = "{Minimum wage statistics}",
  url     = "{https://ec.europa.eu/eurostat/statistics-
explained/index.php?title=Minimum_wage_statistics}",
  urldate = "{January 2024}",
  year    = "{2024}",
  address = "{[Accessed in March 2024]}",
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@MISC{TaxPortugal,
  AUTHOR  = "{pwc}",
  title   = "{Individual - Taxes on personal income}",
  url     =
"{https://taxsummaries.pwc.com/portugal/individual/taxes-on-personal-
income}",
  urldate = "{19 February 2024}",
  year    = "{2024}",
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@MISC{SSP,
  AUTHOR  = {Lara Silva},
  title   = "{Guide to Social Security in Portugal}",
  url     =
"{https://www.portugal.com/moving-to-portugal/guide-to-social-security-in-po
rtugal/}",
  urldate = "{28 September 2022}",
  year    = "{2022}",
  address = "{[Accessed in March 2024]}",
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@InCollection{alexander,
 author       =   {Alexander Larry and Moore Michael},
 title        =   "{Deontological Ethics}",
 booktitle    =   {The {Stanford} Encyclopedia of Philosophy},
 editor       =   {Edward N. Zalta},
 howpublished =
{https://plato.stanford.edu/archives/win2021/entries/ethics-deontological/},
 year         =   {2021},
 edition      =   {{W}inter 2021},
 publisher    =   {Metaphysics Research Lab, Stanford University}
}

@article{Matouskova2022,
    author = {Klara Matouskova and Laura N. Vandenberg},
    title = {Towards a paradigm shift in environmental health decision-
making: a case study of oxybenzone},
    journal = {Environmental Health},
    volume = {21},
    number = {1},
    year = {2022},
    issn = {1476-069X},
    doi = {10.1186/s12940-021-00806-y},
    url = {https://doi.org/10.1186/s12940-021-00806-y},
    abstract = {Technological advancements make lives safer and more
convenient. Unfortunately, many of these advances come with costs to
susceptible individuals and public health, the environment, and other
species and ecosystems. Synthetic chemicals in consumer products represent a
quintessential example of the complexity of both the benefits and burdens of
modern living. How we navigate this complexity is a matter of a society's
values and corresponding principles.},
}

@MISC{IEP,
  author  = {Alasdair Cochrane},
  title   = "{Environmental Ethics}",
  url     = "{https://iep.utm.edu/envi-eth/}",
  urldate = "{January 2020}",
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  year    = "{2020}",
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@MISC{NSPE,
  author  = "{National Society of Professional Engineers}",
  title   = "{Code of Ethics for Engineers}",
  url     =
"https://www.nspe.org/sites/default/files/resources/pdfs/Ethics/CodeofEthics
/NSPECodeofEthicsforEngineers.pdf",
  urldate = "{July 2019}",
  year    = "{2019}",
  address = "{[Accessed in April 2024]}",
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@MISC{harvardBR,
  author  = "{Harvard Business Review}",
  title   = "{Sales And Marketing | Fostering an Ethical Culture on Your
Sales Team}",
  url     =
"https://hbr.org/2019/06/fostering-an-ethical-culture-on-your-sales-team",
  urldate = "{20 June 2019}",
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@article{Matouskova,
    title = "Towards a paradigm shift in environmental health decision-
making: a case study of oxybenzone",
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    abstract = "Technological advancements make lives safer and more
convenient. Unfortunately, many of these advances come with costs to
susceptible individuals and public health, the environment, and other
species and ecosystems. Synthetic chemicals in consumer products represent a
quintessential example of the complexity of both the benefits and burdens of
modern living. How we navigate this complexity is a matter of a society’s
values and corresponding principles."
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@MISC{IEP,
  author  = {Alasdair Cochrane},
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  urldate = "{January 2020}",
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@MISC{EuropeanCommissionEMC,
  AUTHOR  = "{European Commission}",
  title   = "{Electromagnetic Compatibility (EMC) Directive}",
  url     =
"{https://single-market-economy.ec.europa.eu/sectors/electrical-and-electron
ic-engineering-industries-eei/electromagnetic-compatibility-emc-
directive_en}",
  urldate = "{2014}",
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@MISC{EuropeanCommissionEC,
  AUTHOR  = "{European Commission}",
  title   = "{Directive 2006/42/EC - machinery directive}",
  url     =
"{https://osha.europa.eu/en/legislation/directives/directive-2006-42-ec-of-t
he-european-parliament-and-of-the-council}",
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@MISC{EuropeanCommissionLVD,
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  title   = "{Low Voltage Directive (LVD)}",
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"{https://single-market-economy.ec.europa.eu/sectors/electrical-and-electron
ic-engineering-industries-eei/low-voltage-directive-lvd_en}",
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@MISC{rohs,
  AUTHOR  = "{European Commission}",
  title   = "{Directive on the Restriction of the Use of Certain Hazardous
Substances in Electrical and Electronic Equipment}",
  url     = "{https://eur-lex.europa.eu/legal-
content/EN/TXT/?uri=celex%3A32011L0065}",
  urldate = "{2014}",
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@MISC{ERSO,
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  AUTHOR  = "{European Road Safety Observatory}",
  title   = "{European Road Safety Observatory | Facts and Figures
Pedestrians}",
  url     =
"{https://road-safety.transport.ec.europa.eu/document/download/aaeb811d-f455
-4fb0-8a79-7a373626952d_en?filename=FF_pedestrians_20220209.pdf}",
  urldate = "{2021}",
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@MISC{yieldifysegmentation,
  AUTHOR  = "{Yieldify}",
  title   = "{Yieldify | 4 Types of Market Segmentation}",
  url     = "{https://www.yieldify.com/blog/types-of-market-segmentation/}",
  urldate = "{December 2022}",
  year    = "{2022}",
  address = "{[Accessed in March 2024]}",
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@MISC{cfipositioning,
  AUTHOR  = "{Corporate Finance Institute Team}",
  title   = "{Corporate Finance Institute | Market Positioning}",
  url     =
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@MISC{smartcity,
  AUTHOR  = "{Lucía Burbano}",
  title   = "{How Smart Cities are Preventing Jaywalking}",
  url     = "{https://www.tomorrow.city/how-smart-cities-avoid-
jaywalking/}",
  urldate = "{APRIL 28, 2022}",
  year    = "{2022}",
  address = "{[Accessed in March 2024]}",
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@MISC{scrum,
  AUTHOR  = "{PM Partners}",
  title   = "{What is Scrum? An overview of Scrum and The Agile Journey}",
  url     =
"{https://www.pm-partners.com.au/insights/the-agile-journey-a-scrum-overview
/}",
  urldate = "{25 March 2024}",
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@article{MDPI,
    title = "Global Incidence and Mortality Patterns of Pedestrian Road Traffic Injuries by Sociodemographic Index, with Forecasting: Findings from the Global Burden of Diseases, Injuries, and Risk Factors 2017 Study",
    journal = "International Journal of Environmental Research and Public Health",
    volume = "17",
    number = {6},
    pages = "1-15",
    year = "2020",
    note = "",
    issn = "1660-4601",
    article-number = {2135},
    doi = "10.3390/ijerph17062135",
    url = "https://www.mdpi.com/1660-4601/17/6/2135",
    author = "Khan, Moien A. B. and Grivna, Michal and Nauman, Javaid and Soteriades, Elpidoforos S. and Cevik, Arif Alper and Hashim, Muhammad Jawad and Govender, Romona and Al Azeezi, Salma Rashid",
    keywords = "road traffic injuries; pedestrians; public safety; global burden; economic loss; health policy; healthcare system; health indicators",
    abstract = "(1) Background: Pedestrian injuries (PIs) represent a significant proportion of road traffic injuries. Our aim was to investigate the incidence and mortality of PIs in different age groups and sociodemographic index (SDI) categories between 1990 and 2017. (2) Method: Estimates of age-standardized incidence and mortality along with trends of PIs by SDI levels were obtained from the Global Burden of Disease from 1990 to 2017. We also forecasted the trends across all the SDI categories until 2040 using the Statistical Package for the Social Sciences (SPSS Statistics for Windows, version 23.0, Chicago, IL, USA) time series expert modeler. (3) Results: Globally, the incidence of PIs increased by 3.31% (−9.94 to 16.56) in 2017 compared to 1990. Men have higher incidence of PIs than women. Forecasted incidence was 132.02 (127.37 to 136.66) per 100,000 population in 2020, 101.52 (65.99 to 137.05) in 2030, and reduced further to 71.02 (10.62 to 152.65) by 2040. Globally across all SDI categories, there was a decreasing trend in mortality due to PIs with the global estimated percentage reduction of 37.12% (−45.19 to −29.04). (4) Conclusions: The results show that PIs are still a burden for all SDI categories despite some variation. Although incidence and mortality are expected to decrease globally, some SDI categories and specific vulnerable age groups may require particular attention. Further studies addressing incidence and mortality patterns in vulnerable SDI categories are needed."
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@MISC{trackapp,
  AUTHOR  = "{Medium}",
  title   = "{How Does Real Time Bus Tracking App Work?}",
  url     =
"{https://medium.com/@montoncr/how-does-real-time-bus-tracking-app-work-6edc
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@MISC{madperf,
  AUTHOR  = "{C&S Packaging Supplier}",
  title   = "{MADPERF}",
  url     = "{https://www.cyspack.com/en/madperf/product/7/22}",
  urldate = "{January 2024}",
  year    = "{2024}",
  address = "{[Accessed in April 2024]}",

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@MISC{PESTEL,
  AUTHOR  = "{Michelle Battista}",
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"{https://salesandmarketing.com/ethics-in-sales-8-best-practices-to-sell-wit
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cities-233692}",
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Supply & Demand and Forecast | ChemAnalyst}",
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  title   = "{How Can Artificial Intelligence Improve Customer
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  url     =
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sa.aspx#art73}",
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