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  "{https://blog.se.com/sustainability/2022/11/14/economicsustainability-pract
ices-that-inspire-growth/}",
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@MISC{Exmed,
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@MISC{SustainabilityGoalsIntroduction,
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@MISC{SustainabilityGoalsClimateAction,
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  title  = "{Social Sustainability Concepts and Benchmarks}",
  url    =
"{https://www.europarl.europa.eu/RegData/etudes/STUD/2020/648782/IPOL_STU(2020)648782_EN.pdf}",
  urldate = "{01.04.2024}",
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@InProceedings{Reis2020,
  author="dos Reis, Alexandre Soares
and Gielen, Elien
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and Pasternak, Marcel
and Sooäär, Vaido
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and Duarte, Abel J.
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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

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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).",
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@article{Lee2018,
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  title = "Design and Implementation of Monitoring System Architecture for Smart Bicycle Platform",
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  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",
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  issn = "1877-0509",
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  doi = "https://doi.org/10.1016/j.procs.2018.07.182",
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"http://www.sciencedirect.com/science/article/pii/S1877050918311475",
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  author = "YeongKyun Lee and Jongpil Jeong",
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  keywords = "Remote monitoring, Wireless sensor network, Smart phone based monitoring, Bicycle monitoring",
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  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."
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@article{Ranjith2020,
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  title = "Prediction of Exhaust Gas Emission characteristics using Neem oil blended bio-diesel in diesel engine",
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  journal = "Materials Today: Proceedings",
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  volume = "21",
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  pages = "870 - 875",
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"http://www.sciencedirect.com/science/article/pii/S2214785319329116",
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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."
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@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
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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."

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@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",  
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"http://www.sciencedirect.com/science/article/pii/S0149291820300278",
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  author = "Kazuko Obayashi and Shigeru Masuyama",  
  keywords = "activities of daily living, cloud robotics, communicative  
  robot, elderly care, robotics utilization, support services",
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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,
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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{Athos,
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@MISC{PilloHealth,
  AUTHOR = "{PilloHealth}",
  title = "{PilloHealth}",
  url = "{https://pillohealth.ermit.it/}",
  urldate = "{}",
  year = "{2020}",
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  AUTHOR = "{Crossrope}",
  title = "{AMP™ Jump Rope Set}",
  url = "{https://www.crossrope.com/products/amp-jump-rope-set/}",
  urldate = "{}",
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@MISC{RiskAnalysis,
  author = "{Lavanya N. and Malarvizha T.}",
  title = "{Risk analysis and management, a vital key to effective project management}",
  url =
  "{https://www.pmi.org/learning/library/risk-analysis-project-
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management-7070}",
  urldate = "{}",
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@article{QualityManagement,
  title = "Quality Management, PM Network",
  journal = "Project Management Institute",
  volume = "",
  pages = "",
  year = "1987",
  issn = "",
  doi = "",
  url = "https://www.pmi.org/learning/library/quality-management-9107",
  urldate = "{03.04.2024}",
  author = "Dixon, William L.",
  keywords = "",
  abstract = ""
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@article{StakeholdersManagement,
  title = "Stakeholder management, keeping your stakeholders thoroughly
happy",
  journal = "Project Management Institute",
  volume = "",
  pages = "",
  year = "2009",
  issn = "",
  doi = "",
  url =
"https://www.pmi.org/learning/library/stakeholder-management-keeping-stakeho
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  urldate = "{03.04.2024}",
  author = "Serrador, Pedro",
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@MISC{Scrum,
  AUTHOR = "{Scrum.org}",
  title = "{What is Scrum?}",
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  urldate = "{}",
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  title = "{Agile methodology for software development life cycle
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"{https://www.istockphoto.com/pt/vetorial/agile-methodology-for-software-dev
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  AUTHOR  = "{Magda E. Ramos}",
  title   = "{Stakeholder management: The most critical soft skill}",
  url     =
"{https://www.linkedin.com/pulse/stakeholder-management-most-critical-soft-s
kill-magda-maggie-ramos/}",
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@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}
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@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",  
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@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},  
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  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
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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.}

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@INPROCEEDINGS{Khan2018,  
  author={Khan, Tareq},  
  booktitle={2018 IEEE International Conference on Electro/Information  
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  title={A Smart Wearable Gadget for Noninvasive Detection and Notification  
of Diaper Moisture},  
  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},  
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  volume = "",
  pages = "",
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  doi = "",
  url = "https://online.hbs.edu/blog/post/ethics-in-
engineering#:~:text=Engineering%20ethics%20are%20principles%20and,their%20cl
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  url =
"https://www.forbes.com/sites/forbesagencycouncil/2023/05/02/ethical-marketi
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  title  = "{Electromagnetic Compatibility (EMC) Directive}",  
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  "{https://single-market-economy.ec.europa.eu/sectors/electrical-and-electronic-engineering-industries-eei/electromagnetic-compatibility-emc-directive_en}",  
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