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@InProceedings{REIS2020,
author="dos Reis, Alexandre Soares
and Gielen, Elien
and Wopereis, Ko
and Pasternak, Marcel
and Soo{\"a}{\"a}r, 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 Lu{\'i}s Lima, Jos{\'e}
and Reis, Lu{\'i}s 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",
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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",
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,
title = "Impact of smartphone distraction on pedestriansâ€™ crossing
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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 participantâ€™s 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
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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
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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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  author = {MySelf},
  editor = {The Publisher},
  title = {The paper title},
  titleaddon = {Title add on},
  subtitle = {Subtitle},
  date = {Today},
  month = {Month},
  year = {2017},
  howpublished = {How published},
  type = {Type},
  version = {Version},
  language ={English},
  note = {Note},
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  url ={http://wwww.myurl.com},
  urldate = {URL date},
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  address = {[Accessed in April 2021]},
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  booktitle    = {The title of the book},
}

@MISC{Commission2015,
  author  = "{European Commission}",
  title   = "{Maritime Affairs}",
  url     = "{http://ec.europa.eu/maritimeaffairs/index_en.html}",
  urldate = "{January 2015}",
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  year    = "{2015}",
  isbn    = "978-0-19-533611-5.",
  address = {[Accessed in April 2021]},
}

@MISC{android41,
  author  = "{Android Open Source Project}",
  title   = "{Android Developers: Android 4.1 APIs}. January 2015. [Accessed
in April, 2017]",
  url     =
"{http://developer.android.com/about/versions/android-4.1.html}",
  urldate = "{May 2014}",
  year    = "{2014}",
  address = "[Accessed in April 2017]",
}

@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{bandyopadhyay2013unsupervised,
  title={Unsupervised Classification: Similarity Measures, Classical and
Metaheuristic Approaches, and

Applications},
  author={Bandyopadhyay, Sanghamitra and Saha, Sriparna},
  year={2013},
  publisher={Springer}
}

@INPROCEEDINGS{foster2008cloud,
  AUTHOR    = "{Foster, I et al.}",
  BOOKTITLE = "{Grid Computing Environments Workshop, 2008. GCE '08}",
  TITLE     = "{Cloud Computing and Grid Computing 360-Degree Compared}",
  year      = "{2008}",
  pages     = "{1-10}",
}

@ARTICLE{llorente2009virtual,
  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}",
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  volume  ="{13}",
  number  ="{5}",
  pages   ="{14-22}",
}

@article{Mulder2013428,
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. "
}
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