



2021:

Are sunglasses appropriate for driving? Investigation and prototype for public testing

Assessment of environmental degradation due to anthropogenic processes based on critical zones: a study in a basin in southern Brazil

Backpropagation Neural Network for Analysis and Classification of Fluorescence Spectroscopy of Squamous Cell Carcinoma in Animal Model

Brazilian states in the context of covid-19 pandemic: An Index Proposition using Network Data Envelopment Analysis

Conjugation of folic acid with TEMPO-oxidized cellulose hydrogel for doxorubicin administration

COVID Health Structure Index: The Vulnerability of Brazilian Microregions

Cryptosporidium spp. and Giardia spp. (oo)cysts as target-organisms in sanitation and environmental monitoring: A review in microscopy-based viability assays

Does each bead count? A reduced-cost approach for recovering waterborne protozoa from challenge water using immunomagnetic separation

Effects of fog in a brazilian road segment analyzed by a driving simulator for sustainable transport: Drivers' speed profile under in-vehicle warning systems

Effects of fog in a brazilian road segment analyzed by a driving simulator for sustainable transport: Drivers' visual profile

Exploring Potentials and Constraints of H₂O₂ Water Disinfection for Household Settings

Ferric sulphate flocculation as a concentration method for giardia and cryptosporidium in filter backwash water

Functional responses of *Hyalella meinerti* after exposure to environmentally realistic concentrations of 2,4-D, fipronil, and vinasse (individually and in mixture)

A low-power 10-bit 0.01-to-12-MS/s asynchronous SAR ADC in 65-nm CMOS

A Novel Fusion-Based Texture Descriptor to Improve the Detection of Architectural Distortion in Digital Mammography

Perfluorooctane sulfonic acid (PFOS) degradation by optimized heterogeneous photocatalysis (TiO₂/UV) using the response surface methodology (RSM)

Pollution threat to water and soil quality by dumpsites and non-sanitary landfills in Brazil: A review

A satellite-based investigation into the algae bloom variability in large water supply urban reservoirs during COVID-19 lockdown

Sorption efficiency of potentially toxic elements onto low-cost materials: Peat and compost

Splitting Ventilator Valve Concept used in the COVID-19 Treatment Through Additive Manufacturing Technique

Transition from one-way to two-way shear by coupling lefea and the csct models

Upper limbs' assistive devices for stroke rehabilitation: a systematic review on design engineering solutions

Virtual Structure Formation Flight Control Based on Nonlinear MPC

What are the risk behaviors of Brazilian and Portuguese drivers? An exploratory approach using self-reported data

2020:

Analysis of the factors influencing overtaking in two-lane highways: A driving simulator study

Design and validation of a human-exoskeleton model for evaluating interaction controls applied to rehabilitation robotics

Detection and removal of *Giardia* spp. cysts and *Cryptosporidium* spp. oocysts by anaerobic reactors in Brazil

Development of a system to treat and online monitor photodynamic therapy of skin cancer using PpIX near-infrared fluorescence

Development of a virtual reality environment for rehabilitation of tetraplegics

Effect of Low-Temperature Austempering and Quenching and Partitioning Treatments on Adhesive Wear Resistance of High-Silicon Multiphase Steels

Herbicides employed in sugarcane plantations have lethal and sublethal effects to larval *Boana pardalis* (Amphibia, Hylidae)

Impact of temperature on the toxicity of Kraft 36 EC® (a.s. abamectin) and Score 250 EC® (a.s. difenoconazole) to soil organisms under realistic environmental exposure scenarios

Life cycle assessment of a hot-pressing machine to manufacture particleboards: hotspots, environmental indicators, and solutions

Proposal of a driver profile classification in relation to risk level in overtaking maneuvers

Ripening of household slow sand filter by adding fish food

Vision-based robust control framework based on deep reinforcement learning applied to autonomous ground vehicles

Wireless Portable Evaluation Platform for Photodynamic Therapy: In vitro Assays on Human Gastric Adenocarcinoma Cells

2019:

Adaptive Impedance Control Applied to Robot-Aided Neuro-Rehabilitation of the Ankle

A cross-cutting approach for tracking architectural distortion locii on digital breast tomosynthesis slices

Ankle torque steadiness and gait speed after a single session of robot therapy in individuals with chronic hemiparesis: a pilot study

Assessing the impacts of enriched information on crash prediction performance

Behavior of hardened steel grinding using MQL under cold air and MQL CBN wheel cleaning

Design of a low power 10-bit 12MS/s asynchronous SAR ADC in 65nm CMOS

Detection of Architectural Distortion with Deep Convolutional Neural Network and Data Augmentation of Limited Dataset

Effects of 2,4-D-based herbicide (DMA® 806) on sensitivity, respiration rates, energy reserves and behavior of tadpoles

Electroanalytical properties of chlorophenol red at disposable carbon electrodes: Implications for Escherichia coli detection

Exploratory learning with convolutional autoencoder for discrimination of architectural distortion in digital mammography

Lean healthcare in a cancer chemotherapy unit: Implementation and results

Microcystis aeruginosa and microcystin-LR removal by household slow sand filters operating in continuous and intermittent flows

Mortality, Spatial Avoidance and Swimming Behavior of Bullfrog Tadpoles (*Lithobates catesbeianus*) Exposed to the Herbicide Diuron

Open-Source Reconstruction Toolbox for Digital Breast Tomosynthesis

Performance of a small-scale wastewater treatment plant for removal of pathogenic protozoa (oo)cysts and indicator microorganisms

Portable Laboratory Platform with Electrochemical Biosensors for Immunodiagnostic of Hepatitis C Virus

Prediction of short and medium term PM10 concentration using artificial neural networks

The south atlantic aerial crossing of joão ribeiro de barros in 1927

The use of gene expression to unravel the single and mixture toxicity of abamectin and

2018:

Analysis of perception of vertical signaling of highways by drivers in a simulated driving environment

Characterization of municipalities with high road traffic fatality rates using macro level data and the CART algorithm

Comparison Between Performance in Game and Cognitive Level: Tests with Healthy Subjects

Control Strategy Based on Kinetic Motor Primitives for Lower Limbs Exoskeletons

Development of a low cost UV index datalogger and comparison between UV index sensors

Development of a structured breast phantom for evaluating CAdE/Dx schemes applied on 2D mammography

Evolutionary algorithms for a better gaming experience in rehabilitation robotics

Evaluation of a computer-aided diagnosis system in the classification of lesions in breast strain elastography imaging

Evaluation of Reaeration by Convective Heat Transfer Coefficient

Hazard assessment of the pesticides KRAFT 36 EC and SCORE in a tropical natural soil using an ecotoxicological test battery

Label-Free Darkfield-Based Technique to Assist in the Detection of Giardia Cysts

A new RF transmit coil for foot and ankle imaging at 7T MRI

Novel Assessment Measures of Upper-Limb Function in Pre and Poststroke Rehabilitation: A Pilot Study

Restoration of low-dose digital breast tomosynthesis

Restored low-dose digital breast tomosynthesis: A perception study

Reduction of false-positives in a CAD scheme for automated detection of architectural distortion in digital mammography

2017:

Aerodynamic design analysis of a UAV for superficial research of volcanic environments

Agreement between a computer-assisted tool and radiologists to classify lesions in breast elastography images

Automatic breast tissue density estimation scheme in digital mammography images

Comparison of kinematic and EMG parameters between unassisted, fixed- and adaptive-stiffness robotic-assisted ankle movements in post-stroke subjects

A comparison of methods to evaluate gray scale response of tomosynthesis systems using a software breast phantom

Design and evaluation of a modular lower limb exoskeleton for rehabilitation

Dissolved air flotation as a potential treatment process to remove Giardia cysts from anaerobically treated sewage

Drivers' speed profile at curves under distraction task

Identification of rules induced through decision tree algorithm for detection of traffic accidents with victims: A study case from Brazil

Lean healthcare in developing countries: evidence from Brazilian hospitals

Metal artifact reduction using a patch-based reconstruction for digital breast tomosynthesis

A new texture descriptor based on local micro-pattern for detection of architectural distortion in mammographic images

Safe Optimization of Highway Traffic with Robust Model Predictive Control-Based Cooperative Adaptive Cruise Control

2016:

Acute toxicity of zinc and arsenic to the warmwater aquatic oligochaete *Branchiura sowerbyi* as compared to its coldwater counterpart *Tubifex tubifex* (Annelida, Clitellata)

Autonomous Path Planning of Free-Floating Manipulators Using RRT-Based Algorithms

Body composition assessment by bioelectrical impedance analysis and body mass index in individuals with chronic spinal cord injury

Dynamic difficulty adjustment with Evolutionary Algorithm in games for rehabilitation robotics

Guaranteed cost model predictive control-based driver assistance system for vehicle stabilization under tire parameters uncertainties

The involvement of community leaders in healthcare, the environment and sanitation in areas of social vulnerability

Integrated tasks assignment and routing for the estimation of the optimal number of AGVS

Mesh independency analyses and grid density estimation for ventricular assist devices in multiple reference frames simulations

Optimal impedance control for robot-Aided rehabilitation of walking based on estimation of patient behavior

Path planning with collision avoidance for free-floating manipulators: A RRT-based approach

Proposal of semi-automatic classification of breast lesions for strain sonoelastography using a dedicated CAD system

A robotic telerehabilitation game system for multiplayer activities

Towards a battery-free wireless smart glove for rehabilitation applications based on RFID

2015:

Aeroelastic control of non-rotating and rotating wings using the dynamic stiffness modulation principle via piezoelectric actuators

Assist-As-needed ankle rehabilitation based on adaptive impedance control

Bootstrapping DEA scores for road safety strategic analysis in Brazil

Experiencing Functional Electrical Stimulation Roots on Education, and Clinical Developments in Paraplegia and Tetraplegia With Technological Innovation

Investigating automatic techniques in segmentation accuracy of masses in digital mammography images

Life cycle assessment of offset paper production in Brazil: Hotspots and cleaner production alternatives

Portable widefield imaging device for ICG-detection of the sentinel lymph node

Traffic fatality indicators in Brazil: State diagnosis based on data envelopment analysis research

Trunk restraint therapy: The continuous use of the harness could promote feedback dependence in poststroke patients

Using digital subtraction in computer simulated images as a tool to aid the visual detection of masked lesions in dense breasts

2014:

Adaptive impedance control for robot-aided rehabilitation of ankle movements

Assessing road safety performance by data envelopment analysis – The case of Brazil

Bootstrapping dea scores for traffic fatality risk assessment in Brazil

Development of a computer tool to detect and classify nodules in ultrasound breast images

Efficacy of photodynamic therapy against larvae of *Aedes aegypti*: Confocal microscopy and fluorescence-lifetime imaging

Investigating the visual inspection subjectivity on the contrast-detail evaluation in digital mammography images

Markov Jump Linear Systems-based position estimation for lower limb exoskeletons

Serious games for assessment and rehabilitation of ankle movements

Toxicity on aquatic organisms exposed to secondary effluent disinfected with chlorine, peracetic acid, ozone and UV radiation

Utilization of Life Cycle Assessment methodology to compare two strategies for recovery of copper from printed circuit board scrap

2013:

Aeroelastic control of non-rotating and rotating wings using the dynamic stiffness modulation principle via piezoelectric actuators

A computer software system to assist in the diagnosis of animal tuberculosis

Estimation of lower limbs angular positions using Kalman filter and genetic algorithm

GISA: A Brazilian platform for autonomous cars trials

Mammographic image denoising and enhancement using the anscombe transformation, adaptive wiener filtering, and the modulation transfer function

A new walking aid with axillary support for children with cerebral palsy: Electromyographic evaluation

Use of driving simulators Applied to road safety project

2012:

Aerodynamic Analysis Of High Rotation And Low Reynolds Number Propeller

A computer aided detection system for microcalcifications in breast phantom images

In-flight collision avoidance controller based only on OS4 embedded sensors

Integrated ecological risk assessment of pesticides in tropical ecosystems: A case study with carbofuran in Brazil

MTF measurements on real time for performance analyze of electro-optical systems

Nodules segmentation in breast ultrasound using the artificial neural network self-organizing map

Sintering and microwave properties of zirconium tin titanate doped with select oxides