



2021:

Anticipated memories and adaptation from past flood events in Gregório creek basin, Brazil

Applying multivariate geostatistics for transit ridership modeling at the bus stop level

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

Assessing the Impact of Climate Change on Transportation Infrastructure Using the Hydrologic-Footprint-Residence Metric

Biodegradation of hemicellulose-cellulose-starch-based bioplastics and microbial polyesters

Blue and grey urban water footprints through citizens' perception and time series analysis of Brazilian dynamics

Circular vs. linear economy of building materials: A case study for particleboards made of recycled wood and biopolymer vs. conventional particleboards

Circular economy and digital technologies: A review of the current research streams

Citizens' viewpoints on stormwater Beneficial Management Practices (BMPs) in Brazil

Chironomid pupal exuviae communities support the "field of dreams" hypothesis after the riparian vegetation recovery in headwater urban streams

Decision Making for Autonomous Vehicles at Signalized Intersection under Uncertain Traffic Signal Phase and Timing Information

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

Estimating intrazonal trip distances in a Brazilian medium-sized city

Evaluating low impact development practices potentials for increasing flood resilience and stormwater reuse through lab-controlled bioretention systems

Improving travel pattern analysis with urban morphology features: A panel data study case in a Brazilian university campus

Integrated empirical models to assess nutrient concentration in water resources: case study of a small basin in southeastern Brazil

Limnology and water quality in La Plata basin (South America) – Spatial patterns and major stressors

Measuring urban road network vulnerability to extreme events: An application for urban floods

Methodological proposal for stated preference scenarios regarding an exploratory evaluation of ride-hailing implications on transit: A Brazilian context analysis

Modeling travel mode choice and characterizing freight transport in a Brazilian context

Nature-based solutions and real-time control: Challenges and opportunities

Performance based assessment of transmission lines to seismic events

Permeable pavement hydrological model to assess the long-term efficiency of maintenance using high-resolution temperature and rainfall data

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

Ridership Estimation Along Bus Transit Lines Based on Kriging: Comparative Analysis Between Network and Euclidean Distances

Riparian Land Use and Hydrological Connectivity Influence Nutrient Retention in Tropical Rivers Receiving Wastewater Treatment Plant Discharge

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

Stability of Solids in Stepped Flume Nappe Flows: Subsidies for Human Stability in Flows

A novel multistage risk management applied to water-related disaster using diversity of measures: A theoretical approach

Procedures of engineering geological mapping applied to urban planning in a data-scarce area: Application in southern Brazil

Resilience of Urban Mobility Systems: Combining Urban Subsystems and Threats with a System Dynamics Approach

São Paulo's strategic master plan and the challenges of sustainable urban transformation

Spatial and seasonal assessment of water quality in the lobo stream river basin, Brazil using multivariate statistical techniques

Spatial assessment of overland flow, pollutant concentration, and first flush using a 2-D non-point source pollution and hydrological model for urban catchments

Stormwater management for highly urbanized areas in the tropics: Life cycle assessment of low impact development practices

Strategy to reduce the number of parameters to be estimated in discrete choice models: An approach to large choice sets

Urban flood risk under global changes: a socio-hydrological and cellular automata approach in a Brazilian catchment

USP's environmental policy in the SDGs approach

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

2020:

Analysis of water quality and trophic state of tributaries of the lobo reservoir, Itirapina, Sao Paulo, Brazil

Climate change, water-related disasters, flood control and rainfall forecasting: A case study of the são francisco river, brazil

Combining environmental quality assessment of bicycle infrastructures with vertical acceleration measurements

Combining travel and population data through a bivariate spatial analysis to define Functional Urban Regions

Cyclists' noise exposure in a Brazilian medium-sized city

Difficulties of wooden housing production sector in Brazil

Discrete event simulation to aid decision-making and mitigation in solid waste management

Does cycling infrastructure reduce stress biomarkers in commuting cyclists? A comparison of five European cities

Equity issues associated with transport barriers in a Brazilian medium-sized city

Equity issues and the PeCUS index: an indirect analysis of community severance

Hydrologic performance assessment of regulated and alternative strategies for flood mitigation: a case study in São Paulo, Brazil

Improving flood forecasting using an input correction method in urban models in poorly gauged areas

Improving the hydrogen production from coffee waste through hydrothermal pretreatment, co-digestion and microbial consortium bioaugmentation

Incorporating public transport in a methodology for assessing resilience in urban mobility

Integration of morphometric attributes and the HAND model for the identification of Flood-Prone Area

Intersecting geostatistics with transport demand modeling: A bibliographic survey

Methane Production from Hydrogen Peroxide Assisted Hydrothermal Pretreatment of Solid Fraction Sugarcane Bagasse

Microbial structure and diversity in non-sanitary landfills and association with physicochemical parameters

A review: organic matter and ammonia removal by biological activated carbon filtration for water and wastewater treatment

Persistent impacts of an abandoned non-sanitary landfill in its surroundings

Simple rainfall indices for forecasting hazardous events of hydrologic and geologic nature

Towards urban resilience through Sustainable Drainage Systems: A multi-objective optimisation problem

Using historical source data to understand urban flood risk: a socio-hydrological modelling application at Gregório Creek, Brazil

2019:

Adsorption of lead (Pb) in weathered tropical soil (ribeira valley region – Brazil)

Alternative construction and demolition (C&d) waste characterization method proposal

Aplicação da análise de risco ecológico (ARE) para avaliação de impactos em ecossistemas aquáticos naturais

Analysis and visualization of multidimensional time series: Particulate matter (PM10) from São Carlos-SP (Brazil)

Assessment of the mobility, bioaccessibility, and ecological risk of Pb and Zn on a dirt road located in a former mining area—Ribeira Valley—Brazil

Assessing the impacts of enriched information on crash prediction performance

Autonomous intersection management: A short review

Bioretention performance under different rainfall regimes in subtropical conditions: A case study in São Carlos, Brazil

Continuous deep maximum entropy inverse reinforcement learning using online POMDP

Defining environmental conservation levels considering anthropic activity in the Uberaba River Basin protected area

Evaluation of grinding process using simultaneously MQL technique and cleaning jet on grinding wheel surface

Flood modelling using synthesised citizen science urban streamflow observations

Hydrogeochemical characterization of area impacted by a disabled waste deposit in a guarani aquifer recharge zone

An indicator-based methodology for assessing resilience in urban mobility

Landscape patterns influence nutrient concentrations in aquatic systems: Citizen science data from Brazil and Mexico

Life Cycle Assessment of prospective MSW management based on integrated management planning in Campo Grande, Brazil

The management of solid urban waste as a sustainability strategy

Microalgae cultivation for municipal and piggery wastewater treatment in Brazil

Particulate matter (PM10) from São Carlos-SP (Brazil): spectroanalytical techniques to evaluate and determine chemical elements

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

Stormwater volume reduction and water quality improvement by bioretention: Potentials and challenges for water security in a subtropical catchment

Waste management in the Amazon and the conceptual innovation of sustainability

2018:

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

Assessment of the use of organic composts derived from municipal solid waste for the adsorption of Pb, Zn and Cd

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

Clothoid-based global path planning for autonomous vehicles in urban scenarios

Compressive behavior of UHPFRC under quasi-static and seismic strain rates considering the effect of fiber content

The consideration of environmental and social issues in transport policy, plan and programme making in Brazil: A systems analysis

Data-mining, GIS and multicriteria analysis in a comprehensive method for bicycle network planning and design

Decentralized Low Impact Development (LID) Practices Addressing the Security of the Water-Energy-Food Nexus

Effectiveness of solid waste policies in developing countries: A case study in Brazil

The Effects of Climate Change on Low Impact Development (LID) Performance – A Case of Study in Sao Carlos, Brazil

Evaluating measures of effectiveness for quality of service estimation on two-lane rural highways

Evaluation of the dynamic response of buildings with TMDs under earthquakes

Environmental assessment of existing and alternative options for management of municipal solid waste in Brazil

Flooding and inundation collaborative mapping – use of the Crowdmap/Ushahidi platform in the city of Sao Paulo, Brazil

Geo-social media as a proxy for hydrometeorological data for streamflow estimation and to improve flood monitoring

The influence of noise, vibration, cycle paths, and period of day on stress experienced by cyclists

Landfill siting based on optimisation, multiple decision analysis, and geographic information system analyses

Nitrogen and phosphorus uptake dynamics in tropical Cerrado woodland streams

Physical and mechanical properties of concrete using residual powder from organic waste as partial cement replacement

Planning by the rules: A fair chance for the environment in a land-use conflict area

Road vehicle emission inventory of a Brazilian metropolitan area and insights for other emerging economies

Seasonal characterization of sugarcane vinasse: Assessing environmental impacts from fertirrigation and the bioenergy recovery potential through biodigestion

Solid waste management index for Brazilian Higher Education Institutions

Theoretical contribution of industrial ecology to circular economy

The University of São Paulo on the 2017's GreenMetric Ranking

Urban horticulture in retail parks: Environmental assessment of the potential implementation of rooftop greenhouses in European and South American cities

Variation of stream metabolism along a tropical environmental gradient

2017:

The contribution of volunteer-based monitoring data to the assessment of harmful phytoplankton blooms in Brazilian urban streams

Economic indicators of hydrologic drought insurance under water demand and climate change scenarios in a Brazilian context

Estimating motorized travel mode choice using classifiers: An application for high-dimensional multicollinear data

Estimating the surface runoff from natural environment data

Exploratory study of the potential demand for a pedelec bike-sharing system

Impact of soil moisture over palmer drought severity index and its future projections in Brazil

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

Learning from the operation, pathology and maintenance of a bioretention system to optimize urban drainage practices

Metal fractionation in sludge from sewage UASB treatment

Mining rainfall spatio-temporal patterns in twitter: A temporal approach

Occurrence and removal of Giardia spp. cysts and Cryptosporidium spp. oocysts from a municipal wastewater treatment plant in Brazil

Path planning at roundabouts using piecewise linear continuous curvature curves

Proposal of a geostatistical procedure for transportation planning field

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

Spatial distribution of areas susceptible to sheet erosion in computing environment

Violence in public transportation: an approach based on spatial analysis

Water supply and sewage services regulation indicators in poverty areas: Structure and application process in Cubatão-Sp, Brazil

2016:

Estimation of transit trip production using Factorial Kriging with External Drift: an aggregated data case study

Fuzzy-based Orthogonal Decomposition approach for fault diagnoses in distribution feeders of Smart Cities

Hydrologic Simulation for Water Balance Improvement in an Outcrop Area of the Guarani Aquifer System

Improving the accuracy of a flood forecasting model by means of machine learning and chaos theory: A case study involving a real wireless sensor network deployment in Brazil

Industrial symbiosis indicators to manage eco-industrial parks as dynamic systems

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

Land use influence on raw surface water quality and treatment costs for drinking supply in São Paulo State (Brazil)

Micro and macroscale drivers of nutrient concentrations in urban streams in South, Central and North America

A qualitative analysis of the early warning process in disaster management

Urban land use pattern identification using variogram on image

2015:

Anaerobic effluent disinfection using ozone/chlorine

Assessing noise exposure levels along recently built cyclepaths in a Brazilian city with a mobile sensing system

Bootstrapping DEA scores for road safety strategic analysis in Brazil

Capacity of roadway infrastructure and its relation with functional urban regions

The challenge of selecting and evaluating third-party reverse logistics providers in a multicriteria perspective: A Brazilian case

A comparative evaluation of mobility conditions in selected cities of the five Brazilian regions

A decision-support tool for the control of urban noise pollution

Development of a spatial decision support system for flood risk management in Brazil that combines volunteered geographic information with wireless sensor networks

A distributed approach to flood prediction using a WSN and ML: A comparative study of ML techniques in a WSN deployed in Brazil

Input flows for the infiltration trench household

MaNIAC-UAV – A methodology for automatic pavement defects detection using images obtained by Unmanned Aerial Vehicles

Prediction of displacements of a creeping natural slope by a visco-plastic model

Proposal of a sequential method for spatial interpolation of mode choice

Public street lighting remote operation and supervision system

Quantification of phytoplankton bloom dynamics by citizen scientists in urban and peri-urban environments

Receiver Initiated Transmission Strategies Applied to Street Lighting Systems Based on Wireless Sensor Networks

Recovery measures of the erosion features:

Review of soil degradation in the region of nazareno, minas gerais: Brazil

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

Urban occupation and its hydrologic impacts in the upper mineirinho watershed

UASB reactor effluent disinfection by ozone and chlorine

2014:

An Accurate Flood Forecasting Model Using Wireless Sensor Networks and Chaos Theory: A Case Study with Real WSN Deployment in Brazil

AGORA-GeoDash: A geosensor dashboard for real-time flood risk monitoring

Anaerobic digestion of vinasse from sugarcane biorefineries in Brazil from energy, environmental, and economic perspectives: Profit or expense?

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

Bootstrapping dea scores for traffic fatality risk assessment in Brazil

Combining wireless sensor networks and machine learning for flash flood nowcasting

Erosion feature reclamation in urban areas: Typical unsuccessful examples from Brazil

Flexible Wireless Sensor Network for smart lighting applications

Flood citizen observatory: A crowdsourcing-based approach for flood risk management in Brazil

GIS-based analytical tools for transport planning: Spatial regression models for transportation demand forecast

Physical characterization of particleboard produced with waste from ethanol and sugar mill

Recycling of electric arc furnace (EAF) dust for use in steel making process

Thermal Analysis of a Rear Drum Brake for Lightweight Passenger Vehicles

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

Soft rocks: Relevant aspects to the resumption of the studies in Brazilian geotechnics

Study on the emergence and expansion of smart grids in divergent cities

UV protection for sunglasses: Revisiting the standards

2013:

Autonomous vehicle navigation in semi-structured urban environment

Dynamic and collaborative mapping of flooding in the city of São Paulo

Ethanol addition as a strategy for start-up and acclimation of an AnSBBR for the treatment of landfill leachate

Evaluation of health conditions of wooden structures of the former slave quarters of farm Santa Maria do Monjolinho, located in the state of São Paulo, Brazil

The introduction of the index of sustainable urban mobility in a scenario-based planning approach

GISA: A Brazilian platform for autonomous cars trials

Granite plates as slabs in social housing in Brazil

A gradient based routing scheme for street lighting wireless sensor networks

Mathematical model for the simulation of water quality in rivers using the Vensim PLE® software

Method for transmittance measurements in sunglasses for a kiosk

A preliminary assessment of the distribution and consequences of natural and some anthropogenic hazards in Brazil

Reduction of sludge generation by the addition of support material in a cyclic activated sludge system for municipal wastewater treatment

Restoration of structural timber elements using epoxy resin: Analysis of mechanical properties

Smart sensing and barrier free planning: Project outcomes and recent developments

2012:

Case study: A 3D resistivity and induced polarization imaging from downstream a waste disposal site in Brazil

Characterization of immobilized biomass by amplified rDNA restriction analysis (ARDRA) in an anaerobic sequencing-batch biofilm reactor (ASBBR) for the treatment of industrial wastewater

E-waste in the Brazilian context

Housing and environmental management in water source areas: The case of Santo André (SP)

The influence of the degree of back-mixing on hydrogen production in an anaerobic fixed-bed reactor