

## 2021:

3Y-TZP DLP additive manufacturing: Solvent-free slurry development and characterization

Additive manufacturing of electrofused mullite slurry by digital light processing

Algorithms-aided design applied to the tool-paths generation for hybrid manufacturing

Anaerobic digestion of hydrothermal liquefaction wastewater from spent coffee grounds

Anaerobic structured-bed reactor for azo dye decolorization in the presence of sulfate ions

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

Ball-nose micro end-milling of ultrafine-grained steels

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

Characterization and Optimization of Process Parameters for Directed Energy Deposition Powder-Fed Laser System

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

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

A cloud-based condition monitoring system for fault detection in rotating machines using PROFINET process data

A comprehensive review on additive manufacturing of medical devices

Defect and damage detection in filament wound carbon composite cylinders: A new numerical-experimental methodology based on vibrational analyses

Degradation of Polypropylene and Jute Fiber-Reinforced Composites Exposed to Natural and Accelerated Aging: Mechanical Properties and Wettability

Design and numerical evaluation of quadrotor drone frame suitable for fabrication using fused filament fabrication with consumer-grade ABS

Design for assistive technology oriented to design methodology: a systematic review on user-centered design and 3D printing approaches

Distributed nonlinear state estimation using adaptive penalty parameters with load characteristics in the Electricity Reliability Council of Texas

DLP 3D Printer with Innovative Recoating System

Effect of Combined Tempering and Aging in the Austenite Reversion, Precipitation, and Tensile Properties of an Additively Manufactured Maraging 300 Steel

Effect of the as-built microstructure on the martensite to austenite transformation in a 18Ni maraging steel after laser-based powder bed fusion

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

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 Laser Polishing on Surface Characteristics and Wettability of Directed Energy-Deposited 316L Stainless Steel

Effect of Laser Polishing Post-Processing Technique on the Roughness and Wear Resistance of Inconel 625 Deposited by Laser Cladding on AISI 304L Stainless Steel

Effect of microstructure and defect formation on the bending properties of additive manufactured H13 tool steel

Entropy: From thermodynamics to information processing

Evaluation of laser polishing as post-processing of Inconel 625 produced by directed energy deposition

Evaluating real-time ethernet performance indicators for SERCOS III networks

Experimental evaluation of the minimum uncut chip thickness (MUCT) in AISI H13 steel, using the end milling operation

Exploring Potentials and Constraints of H<sub>2</sub>O<sub>2</sub> Water Disinfection for Household Settings

An extended cavity diode laser constructed with additive manufacturing: Contribution for a Brazilian compact atomic frequency standard with cold atoms

In-hand manipulation via deep reinforcement learning for industrial robots

Hot embossing of aspherical Fresnel microlenses: design, process, and characterization

A general optimization-based approach to the detection of real-time Ethernet traffic events

Grinding and fine finishing of future automotive powertrain components

Innovative Framework to manage New Product Development (NPD) Integrating Additive Manufacturing (AM) and Agile Management

Micro-endmilling of Fresnel structure on RSA 6061-T6 and PMMA

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

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

A novel melt pool mapping technique towards the online monitoring of Directed Energy Deposition operations

Observations on laser additive manufacturing (LAM) in terms of directed energy deposition (DED) with metal powder feedstock

Particleboard produced with chromated copper arsenate- and borate-treated caixeta wood: a technical feasibility study

Piezoelectrets: A Brief Introduction

Porous Refractory Ceramics for High-Temperature Thermal Insulation - Part 1: The Science Behind Energy Saving

Real-time deep learning approach to visual servo control and grasp detection for autonomous robotic manipulation

Recycling of industrial waste based on jute fiber-polypropylene: Manufacture of sustainable fiber-reinforced polymer composites and their characterization before and after accelerated aging

On the relation between knowledge management and university-industry-government collaboration in Brazilian national institutes of science and technology

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

A review on the rheological behavior and formulations of ceramic suspensions for vat photopolymerization

A scalable electron beam irradiation platform applied for allotropic carbon transformation

Screw-assisted 3D printing with granulated materials: a systematic review

In search of maturity models in agritechs

Size effects in ultraprecision machining of aluminum alloys: Conventional AA6061-T6 and RSA 6061-T6

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

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

Systemic Circular Innovation: Barriers, Windows of Opportunity and An Analysis of Brazil's Apparel Scenario

A systems representation of the Circular Economy: Transition scenarios in the electrical and electronic equipment (EEE) industry

Usage of MQTT, ROS, and AWS in the manufacturing process of aircrafts

Using OBR for pressure monitoring and BVID detection in type IV composite overwrapped pressure vessels

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

Wind tunnel measurements of a multibladed horizontal-axis small wind turbine

## **2020:**

Abrasion tests combined with accelerated alteration cycles in different rock materials for railway ballast

Acidic and thermal pre-treatments for anaerobic digestion inoculum to improve hydrogen and volatile fatty acid production using xylose as the substrate

CAD/CAM interfaced algorithm reduces cutting force, roughness, and machining time in free-form milling

Circular business models in the medical device industry: paths towards sustainable healthcare

Circular economy indicators for organizations considering sustainability and business models: Plastic, textile and electro-electronic cases

Characteristics and Skills of Leadership in the Context of Industry 4.0

Coagulation and Microfiltration Application for Sugarcane Vinasse Clarification

Combining environmental quality assessment of bicycle infrastructures with vertical acceleration measurements

Deep learning for process monitoring of additive manufacturing

Development of automatic smoothing station based on solvent vapour attack for low cost 3D Printers

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

An enterprise model on Sensing, Smart, and Sustainable ( $S^3$ ) enterprises

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

Evaluating the transition for self-managed teams through analysis of roles in agile product development process in a technology-based startup

An environmental and operational analysis of quality function deployment-based methods

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

Experimental correlation between acoustic emission and stability in micromilling of different grain-sized materials

Export product diversification and CO2 emissions: Contextual evidences from developing and developed economies

Failure Monitoring and Recovery System during Manufacturing Process

Feasibility study of small scale production based on additive manufacturing technologies

Framework for logistics performance index construction using DEA: An application for soybean haulage in Brazil

Geotextile tube dewatering performance assessment: An experimental study of sludge dewatering generated at a water treatment plant

Healthcare costs' reduction through the integration of Healthcare 4.0 technologies in developing economies

Hybrid manufacturing: a review of the synergy between directed energy deposition and subtractive processes

The Influence of Economic Context on the Relationship Between Manufacturing Strategy, Practices and Performance

An initial investigation of tungsten inert gas (TIG) torch as heat source for additive manufacturing (AM) process

Introducing a cloud based architecture for the distributed analysis of Real-Time Ethernet traffic

An investigation of stainless steel 316L parts produced by powder bed fusion submitted to micro-endmilling operations

Measuring the static and dynamic elastic modulus in Y-TZP ceramic applied to dentistry

Mechanical structural design based on additive manufacturing and internal reinforcement

Microstructure and physico-mechanical properties of Al<sub>2</sub>O<sub>3</sub>-doped sustainable glass-ceramic foams

Polyurethane derived from castor oil reinforced with long cotton fibers: Static and dynamic testing of a novel eco-friendly composite material

Preliminary studies on additive manufacturing of over 95% dense 3Y zirconia parts via digital imaging projection

R&D roadmap for process robotization driven to the digital transformation of the industry 4.0

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

Topology optimization of compliant mechanisms considering stress constraints, manufacturing uncertainty and geometric nonlinearity

Vat photopolymerization additive manufacturing resins: Analysis and case study

Spatial spillovers of innovation and transport in Brazil

## **2019:**

Aging treatment of a cold rolled Fe-Mn-Al-Si-C steel

Analysis of the tool nose radius influence in the machining of a green ceramic material

Assessing some important factors to reduce obstacles in product innovation

Austenite reversion kinetics and stability during tempering of an additively manufactured maraging 300 steel

Axiomatic design and solution variants applied to a modular 3D printing head based in material extrusion

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

Bioconversion of crude glycerol from waste cooking oils into hydrogen by sub-tropical mixed and pure cultures

Cleaner Production practices, motivators and performance in the Brazilian industrial companies

Effect of thermal cycling and aging stages on the microstructure and bending strength of a selective laser melted 300-grade maraging steel

Energy efficiency study throughout the industrial operations of a multinational household appliances manufacturer company in Brazil

Evaluation of concentration technologies in the design of biorefineries for the recovery of resources from vinasse

Experimental evaluation of energy consumption in machine tools: a case study for a two-spindle turning center

Experimental and numerical evaluation of the temperature profile of a modular extrusion head applied to an experimental 3D printer

Development and characterisation of 3D printing finishing process applying recycled plastic waste

Development of an internet of things gateway applied to a multitask industrial plant

Development of a pavement condition index for urban management systems

Fabrication and characterization of scaffolds of poly( $\epsilon$ -caprolactone)/biosilicate® biocomposites prepared by generative manufacturing process

Failure Monitoring and Recovery System during Manufacturing Process

Feasibility analysis of cross-section culvert composed of 3 radius circle with reduced wall thickness

Heat transfer and physical-mechanical properties analysis of particleboard produced with ZnO nanoparticles addition

Influence of tool neck length on tool deflections during micromilling of an ultrafine grained low-carbon steel

ISO 14001:2015 and ISO 9001:2015: Analyse the relationship between these management systems standards and corporate sustainability



Knowledge Management in Eco-Innovation Practice: An Analysis of the Contribution of Eco-Innovation Tools in the Early Stages of the Product Development Process

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

Low-cost electro-acoustic system based on ferroelectret transducer for characterizing liquids

The management of solid urban waste as a sustainability strategy

Maturity in management system integration and its relationship with sustainable performance

Modular modeling approach for FDM printed structures and piezo disks for metamaterial design

A multi-process pilot plant as a didactical tool for the teaching of industrial processes control in electrical engineering course

A new lean six sigma framework for improving competitiveness

On a New Type of Micrometer-Structured Non-Diffracting Wave Field: Surface Beams Based on Continuous Superpositions of Zeroth-Order Bessel Beams

Optimal deposition orientation in fused deposition modeling for maximizing the strength of three-dimensional printed truss-like structures

The panorama and challenges of PROFIBUS technology in brazilian market

Panorama, challenges and opportunities in PROFINET protocol research

On the performance of OPC UA and MQTT for data exchange between industrial plants and cloud servers

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

Research opportunities in PSS design focusing on the potentials of agile approaches

Selecting low-cost 3D printers using the AHP method: a case study

Sequential Gaussian Simulation as a Promising Tool in Travel Demand Modeling

Stochastic indexes for power distribution systems resilience analysis

Study of tool paths calculated by different commercial CAM systems and influences on the real machining time and surface roughness for milling free-form geometries

A study on the 3D effects of slat cove fillers

A Systematic Review of Collaborative Networks: Implications for Sensing, Smart and Sustainable Enterprises

Topology optimization of compliant mechanisms with stress constraints and manufacturing error robustness

User-centered design of a customized assistive device to support feeding

## **2018:**

An adaptability index system for product development

Adequacy of roughness parameters to micro-endmilled channels surface evaluation

Agent-based simulation to evaluate and categorize industrial symbiosis indicators

Benchmarking freight transportation corridors and routes with data envelopment analysis (DEA)

Broadband c-Si metasurfaces with polarization control at visible wavelengths: Applications to 3D stereoscopic holography

Cathode-Ray Tube panel glass replaces frit in transparent glazes for ceramic tiles

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

A Delamination Propagation Model for Fiber Reinforced Laminated Composite Materials

Delay Estimation of Industrial IoT Applications Based on Messaging Protocols

Design of an innovative three-dimensional print head based on twin-screw extrusion

Development of additive manufacturing technology based on selective metal-polymer composite formation

Development of a patterning system for vitrified CBN wheels based on modal analysis

Diversifying the technological strategies for recovering bioenergy from the two-phase anaerobic digestion of sugarcane vinasse: An integrated techno-economic and environmental approach

Ecosystem Services in Life Cycle Assessment: A novel conceptual framework for soil

Eco-particleboard manufactured from chemically treated fibrous vascular tissue of acai (*Euterpe oleracea* Mart.) Fruit: A new alternative for the particleboard industry with its potential application in civil construction and furniture

Environmental aspects of oriented strand boards production. A Brazilian case study

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

Environmental Life Cycle Assessment of industrial pine roundwood production in Brazilian forests

Experimental study of viscosity effects on heavy crude oil-water core-annular flow pattern

Experimental tests of a new assisted tool holder for ultraprecision machining

Exploring gamification to support manufacturing education on industry 4.0 as an enabler for innovation and sustainability<sup>1</sup>

A group decision model based on quality function deployment and hesitant fuzzy for selecting supply chain sustainability metrics

Hardware-in-the-loop optimization of an interaction controller for improved coupled dynamics

Hybrid sandwich particleboard made with sugarcane, pínus taeda thermally treated and malva fibre from amazon

The industrial symbiosis in the product development: An approach through the DFIS

Influence of gull wing on longitudinal and lateral-directional coefficients of an airplane

Influence of tool geometry and crystallographic orientation upon ductile response in monocrystalline silicon

Insertion of sustainability performance indicators in an industry 4.0 virtual learning environment

An investigation of anisotropy on AISI 316L obtained by additive manufacturing (AM) measuring surface roughness after micro-endmilling operations

Life Cycle Assessment in automotive sector: A case study for engine valves towards cleaner production

Manufacturing in the fourth industrial revolution: A positive prospect in Sustainable Manufacturing

Networked control systems with sampling interval adaptation

Online prediction of threading task failure using Convolutional Neural Networks

Performance Comparison between OPC UA and MQTT for Data Exchange

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

Physical performance of particleboards using castor oil-based adhesive

Preconditions for Successful Knowledge Creation in the Context of Academic Innovation Projects

Robust critical inverse condition number for a 3RRR robot using failure maps

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

Sensing, Smart and Sustainable S<sup>3</sup> Enterprises: Principles, Goals and Rules

Study of abrasive cutting of natural quartz for manufacturing piezoelectric power generators

Systematic review of the literature on corporate sustainability performance measurement: A discussion of contributions and gaps

Theoretical contribution of industrial ecology to circular economy

Wood-based composite made of wood waste and epoxy based ink-waste as adhesive: A cleaner production alternative

## **2017:**

A Circular Economy Toolkit as an Alternative to Improve the Application of PSS Methodologies

A closed-loop model of a multi-station and multi-product manufacturing system using bond graphs and hybrid controllers

Dynamic jamming in dense suspensions: Surface finishing and edge honing applications

Evaluation of communication latency in industrial IoT applications

Evaluation of innovation networks based on standardized management system

An Experimental Method to Determine the Minimum Uncut Chip Thickness ( $h_{min}$ ) in Orthogonal Cutting

How can Cleaner Production practices contribute to meet ISO 14001 requirements? Critical analysis from a survey with industrial companies

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

Influence of COD/[SO<sub>4</sub><sup>2-</sup>] ratio and Na<sup>+</sup> concentration on organic matter and sulfate removal in UASB reactor

Influence of the green-machining parameters on the mechanical properties of alumina rods

Investigation of additive manufacturing surface smoothing process

Manufacturing of green ceramic balls: Machine and process

Micro injection molding polimeric difracttion grating

Modelling and characterisation of roughness of moulds produced by high-speed machining with ball-nose end mill

Multi-agent systems applied to power loss minimization in distribution-level smart grid with dynamic load variation

A new concept of orthosis for correcting fingers ulnar deviation

Predicting Ethanol Concentration in Industrial Sugarcane Fermentation Based on Knowledge Discovery in Databases

Productive and environmental performance indicators analysis by a combined LCA hybrid model and real-time manufacturing process monitoring: A grinding unit process application

PSS Design Process Models: Are They Sustainability-oriented?

Reference model for implementing ERP systems: an analytical innovation networks perspective

Support of knowledge management in Eco-innovation practices

Vickers microhardness analysis of Pre-Sintered Y-TZP zirconia for machining and subsequent application as copings

## **2016:**

The agility construct on project management theory

Anaerobic Biological Treatment of Vinasse for Environmental Compliance and Methane Production

Analysis of new additive manufacturing technology based on selective composite formation using finite element method approach

Analysis of the relationship between management system standards (ISO 9001, ISO 14001, NBR 16001 and OHSAS 18001) and corporate sustainability

Application of design thinking towards a PSS concept definition: A case study

Application of optimization for improvement of the efficiency of louvered-fin compact heat exchangers

Assessing some important factors to reduce obstacles in product innovation

Bacteriocins of lactic acid bacteria as a hindering factor for biohydrogen production from cassava flour wastewater in a continuous multiple tube reactor

The Brazilian innovation system: Critical analysis and considerations

Business process support for IoT based product-service systems (PSS)

Case of study of a Profinet network using ring topology

Classification of wooden housing building systems

Development of novel additive manufacturing technology: An investigation of a selective composite formation process

The effects and time lags of R&D spillovers in Brazil

Energy recovery from winery wastewater using a dual chamber microbial fuel cell

Environmental Management System ISO 14001 factors for promoting the adoption of Cleaner Production practices

Fabrication of PCL/ $\beta$ -TCP scaffolds by 3D mini-screw extrusion printing

Fuzzy system for calculating the Target Rotation Time in Profibus networks

Guidelines for the integration of EMS based in ISO 14001 with Cleaner Production

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

Influence of network parameters on the recovery time of a ring topology PROFINET network

Innovative structural system consisting of CFT columns and precast concrete beams

Kinetics of methane production and biodegradation of linear alkylbenzene sulfonate from laundry wastewater

Microchannels quality depends on workpiece microstructure and milling parameters

Nanocomposites of PBAT and cellulose nanocrystals modified by in situ polymerization and melt extrusion

New additive manufacturing technology based on selective metal-polymer composite formation

New network based finite element method for stereolithography process analysis

Potential application of Six Sigma tool in the integrated product development process

A procedure to validate industrial symbiosis indicators combining conceptual and empirical validation methods

Regionalization of land use impact models for life cycle assessment: Recommendations for their use on the global scale and their applicability to Brazil

Sensitivity analysis of the use of Life Cycle Impact Assessment methods: A case study on building materials

Software to generate 3-D continuous printing paths for the fabrication of tissue engineering scaffolds

Supramolecular aromatic interactions to enhance biodegradable film properties through incorporation of functionalized cellulose nanocrystals

Sustainable Product Service Systems – From Concept Creation to the Detailing of a Business Model for a Bicycle Sharing System in Berlin

Thermophilic anaerobic digestion of raw sugarcane vinasse

The ultra-precision Ud-lap grinding of flat advanced ceramics

Understanding the Implementation of Impedance Control in Industrial Robots

Well-defined piezoelectrets fabricated with 3D printing technology

## **2015:**

Additive manufacturing of metal parts by welding

An agent-based model to assess the attractiveness of industrial estates



Anaerobic degradation of anionic surfactants by indigenous microorganisms from sediments of a tropical polluted river in Brazil

Application of Life Cycle Assessment (LCA) and Design of Experiments (DOE) to the monitoring and control of a grinding process

Bio-inspired heat microsink manufactured by using micro end-milling process

Burr formation during micro end-milling of ultrafine-grained materials

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

Characterization of the State-of-the-art and Identification of Main Trends for Ecodesign Tools and Methods: Classifying Three Decades of Research and Implementation

Combined MFA and LCA approach to evaluate the metabolism of service polygons: A case study on a university campus

Comprehensive review of the dispatching, scheduling and routing of AGVs

Correcting geometric deviations of CNC Machine-Tools: An approach with Artificial Neural Networks

Development of distributed control architecture for multi-robot systems

Direct manufacture of hydroxyapatite scaffolds using blue laser

Dry grinding process with workpiece precooling

Energy recovery from agro-industrial wastewaters through biohydrogen production: Kinetic evaluation and technological feasibility

Environmental performance assessment of the melamine-urea-formaldehyde (MUF) resin manufacture: A case study in Brazil

Envisioning products to support the agile management of innovative design

The influence of different tungsten carbides (grain size and cobalt percentage) upon material removal mechanism in ultraprecision grinding

Influences of the tool path strategy on the machining force when milling free form geometries with a ball-end cutting tool

Leading product-related environmental performance indicators: a selection guide and database

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

Life Cycle Impact Assessment: A review of the main methods

Micro end-milling of channels using ultrafine-grained low-carbon steel

Modeling the dynamics of a multi-product manufacturing system: A real case application

Monolayers particleboards manufactured with wood waste and green coconut fiber

A New Approach for Using Asset Management Integrated with Profibus PA Networks From Mobile Devices Through a Secure Channel

Size effect and minimum chip thickness in micromilling

Technological innovation for sustainable development: An analysis of different types of impacts for countries in the BRICS and G7 groups

Production of particleboards with bamboo (*Dendrocalamus giganteus*) reinforcement

Piezoelectrets with well-defined cavities produced from 3D-printed acrylonitrile butadiene styrene structures

Resilience of methanogenesis in an anaerobic reactor subjected to increasing sulfate and sodium concentrations

Social skills: A key factor for engineering students to develop interpersonal skills

Sustainable strategies analysis through Life Cycle Assessment: A case study in a furniture industry

Thermal analysis of an extrusion system of a 3-D bioprinter

Ultra-precision face grinding with constant pressure, lapping kinematics, and SiC grinding wheels dressed with overlap factor

Ultraprecision machining of diffraction optical elements on soft semiconductor crystal

The use of robot with force control in machining of green ceramics

“Waste” as the Common “Gene” Connecting Cleaner Production and Lean Manufacturing: A Proposition of a Hybrid Definition

**2014:**

Assessment of the environmental contribution by changing the energy matrix of the brazilian pig iron and steel sector

The benefits of soft sensor and multi-rate control for the implementation of wireless networked control systems

Can agile project management be adopted by industries other than software development?

Characterization of brazilian industrial companies’ processes and challenges as to innovation management

Defining functional urban regions in Bahia, Brazil, using roadway coverage and population density variables

Deployment of a laser projection solution for stripes plotting based on Six Sigma DMAIC methodology applied to aircraft painting shop

Development of acrylate-based material using a multivariable approach: Additive manufacturing applications

Development of an interchangeable head based on variable section screw applied to desktop 3-D printers

Ductile behavior of optical glass in single point diamond turning

Dynamic system for life cycle inventory and impact assessment of manufacturing processes

Efficiency in Brazil’s industrial sectors in terms of energy and sustainable development

Flexible Wireless Sensor Network for smart lighting applications

A FMEA-based approach to prioritize waste reduction in lean implementation

Fracture in hole-flanging produced by single point incremental forming

GBD IAAS manager: A tool for managing infrastructure-as-a-service for private and hybrid clouds

Guideline tool based on design for manufacturing and assembly (DFMA) methodology for application on design and manufacturing of aircrafts

Guidelines for the definition of innovative industrial product-service systems (PSS) business models for remanufacturing

Innovative anaerobic bioreactor with fixed-structured bed (ABFSB) for simultaneous sulfate reduction and organic matter removal

Integrating shop-floor virtual environments with real machining cell data

Investigating the cutting phenomena in free-form milling using a ball-end cutting tool for die and mold manufacturing

Life cycle assessment of the sugarcane bagasse electricity generation in Brazil

Microbial population in an aerated thermophilic reactor that treats recycled cardboard plant wastewater

Organizational context as a support to innovation: A comparative case study in Brazilian companies

Product innovation management: An integrated model proposal

A proper framework for design of aircraft production system based on lean manufacturing principles focusing to automated processes

Structural and modal analysis of a desktop 3-D printer considering an interchangeable mini screw extrusion head

Surface integrity of moulds for microcomponents manufactured by micromilling and electro-discharge machining

Timber structures in Brazil: Past, present and future

Transportation infrastructure and economic growth spillovers

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

Do wood-based panels made with agro-industrial residues provide environmentally benign alternatives? An LCA case study of sugarcane bagasse addition to particle board manufacturing

## **2013:**

Anaerobic fixed-bed reactors for treatment of synthetic wastewater and estuarine-like water containing pentachlorophenol  
Anaerobic treatment of industrial biodiesel wastewater by an ASBR for methane production

An analysis of industrial networks for remanufacturing in Brazil  
Availability study on regenerative chatter avoidance in turning operations through passive and active damping

A brazilian experience in energy management: Low-cost actions as strategy to reduce electricity costs

Communication infrastructure in the centralized management system for intelligent warehouses

Comparative analyses of six-sigma program application in manufacturing and services process

CONAMA framework resolution 357/2005: Spatial and temporal analysis of water quality legal compliances in rivers and reservoirs from São Paulo State, Brazil (2005-2009)

Co-simulation tools for networked control systems: Revision and utilization

Design and construction of a novel Assisted Tool-Holder

Design for manufacturing and assembly methodology applied to aircrafts design and manufacturing

Design of an FDM positioning system and application of an error-cost multiobjective optimization approach

Development of an innovative micro extrusion head based on screw for experimental additive manufacturing machines

Development of gypsum powder and binder for 3D print rapid prototyping

Ecodesign maturity model: A management framework to support ecodesign implementation into manufacturing companies

Ecom2 web portal: Collecting empirical data and supporting companies' ecodesign implementation and management

A framework for assessing social sustainability in supply chains

An experimental investigation into the performance of a t-shaped piezoelectric flow energy harvester

The influence of life cycle assessment and eco-innovation in ecodesign: A review

An integrated approach to remanufacturing: model of a remanufacturing system

Green teams: Understanding their roles in the environmental management of companies located in Brazil

Life cycle assessment of medium density particleboard (MDP) produced in Brazil

Life cycle assessment of urea formaldehyde resin: Comparison by CML (2001), EDIP (1997) and USEtox (2008) methods for toxicological impact categories

Mathematical models and design of an AGV (Automated Guided Vehicle)

Mechatronic reference model (MRM) for new product development: Validation and results

New advances on tracheal stent manufacturing

Optimization of positioning system of FDM machine design using analytical approach

Optimization of thick layers photopolymerization systems applying experimental and analytical approach

Practices of environmentally responsible reverse logistics systems in Brazilian companies

PSO in 2D-space to solve reactive scheduling problems in FMS to reduce the makespan

Quality tools applied to Cleaner Production programs: A first approach toward a new methodology

Reference Model for operation and reconfiguration of a network for subway construction

Remanufacturing in Brazil: Case studies on the automotive sector

A robust manipulation strategy based on impedance control parameters changes and smooth trajectories

The scientific and technological projects developed between University of Sao Paulo and Embraer and its impact on engineering education

Strategies for production of parts textured by grinding using patterned wheels

Towards a design for ecological management and product sustainability – European and Brazilian approaches

Towards an academic platform for robot control

Wood preservation based on neem oil: Evaluation of fungicidal and termiticidal effectiveness

## **2012:**

Asset management applied to field devices of open protocols: An approach from mobile devices

Biological removal of nitrogen compounds from wastewaters: Conventional and non-conventional processes

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

Critical success factors in collaborative projects in industry of agricultural machinery

Discovery of behavior in industrial plants: A KDD based proposal

Effect of green machining on distortion and surface finishing in advanced ceramic

Environmental management in Brazil: Is it a completely competitive priority?

Evaluating serial ZigBee devices for application in wireless networked control systems

E-waste in the Brazilian context

Green machining oriented to diminish density gradient for minimization of distortion in advanced ceramics

Identifying critical factors in knowledge creation: A comparative study in technology-based companies

Intelligent diagnostic for PROFIBUS DP networks

A layout design model for job shop environments with high variety of parts based on lean production concepts

LCA application: The case of the sugar cane bagasse electricity generation in Brazil

Metrology applied to microfabrication

Micromachining of sinusoidal microstructure surface in monocrystalline InSb

A new design for an old concept of wheelchair pushrim

Predicting ethanol concentration behavior of future harvests using Knowledge Discovery in Database

Prototypical implementation of a remanufacturing oriented grinding machine

Rationale and knowledge for the universal implementation of sanitation in areas of social vulnerability

Reference model for implementing an MRP system in a highly diverse component and seasonal lean production environment

Specie – Treatment – Adhesive combinations using 3 Brazilian reforestation species, 3 preservative treatments and 2 adhesives for glulam purpose

Surface integrity analysis when milling ultrafine-grained steels

Thermoplastic filament extruder head for desktop Additive Manufacturing machines

What is missing for traditional design-centric engineering education to better prepare newly graduated engineers for the global era?