



SmartLivingPlat

Plataforma Tecnológica de la Domótica
y las Ciudades Inteligentes



Boletín de Vigilancia Tecnológica

SEPTIEMBRE - OCTUBRE 2023

SMART BUILDINGS
SMART CITIES
INDUSTRIA 4.0

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NOTICIAS

Everybody is looking into the future!

Publicada en op.europa.eu, 1/10/2023

Growing volatility, uncertainty, complexity and ambiguity today present major challenges in policymaking. Anticipatory thinking and foresight are of utmost importance to help explore trends, risks and emerging issues, and their potential implications and opportunities in order to draw useful insights for strategic planning, policymaking and preparedness. This report is a part of the project 'Anticipation and monitoring of emerging technologies and disruptive innovation' (ANTICIPINNOV), a collaboration between the European Commission Joint Research Centre and the European Innovation Council (EIC).



[Veure més...](#)

The UK is gearing up for a pivotal summit on AI. Here's what you need to know

Publicada en cnbc.com, 31/10/2023

The two-day AI safety summit, which takes place on Nov. 1 and Nov. 2, will host government officials and companies from around the world, including the U.S. and China. The AI summit is being held in Bletchley Park, the historic landmark around 55 miles north of London

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Police urged to double AI-enabled facial recognition searches

Publicada en gov.uk, 29/10/2023

Policing Minister challenges police to double retrospective facial recognition searches to track down known offenders by May 2024. Police should double the number of searches they make using retrospective facial recognition technology to track down known offenders by May 2024, as the Policing Minister urges forces to increase their use of this artificial intelligence (AI) crime-fighting tool.

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La logística 4.0 ya tiene su incubadora en el Consorci de la Zona Franca de Barcelona

Publicada en piernext.portdebarcelona.cat, 28/09/2023

Robótica, almacenes automatizados, Internet de las Cosas (IoT), Big Data o la logística verde son tecnologías con amplias posibilidades de impacto en la cadena de suministro. Sin embargo, su implementación continúa en una etapa incipiente, escenario que la Incubadora del Consorci de la Zona Franca de Barcelona espera cambiar situando la innovación en el corazón de este destacado polígono industrial.



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ChatGPT Was Given 20K USD To Invest in Stocks and Crypt: Here's How It Made 2,000 USD in a Month

Publicada en finance.yahoo.com, 19/09/2023.

The surging popularity of artificial intelligence (or large language models), notably ChatGPT, has been helping people be more efficient at work, among other functions. But what about investing? NewsBTC recently conducted an experiment, giving the AI tool \$20,000 to invest in stocks and crypto. The results were surprising.

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EMPRESAS Y MERCADOS

Dual Axis Solar Tracker Market

Publicada en futuremarketinsights.com, 1/10/2023

The global dual-axis solar trackers market is anticipated at USD 5.4 billion in 2022. Demand is likely to remain high for dual-axis solar trackers during the assessment period. This is due to increased government supportive laws for solar energy projects and garnering USD 24.8 billion in 2033, recording a CAGR of 14.8% from 2023 to 2033. The market is likely to secure USD 6.3 billion in 2023.

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SAP Announces New Generative AI Assistant Joule

Publicada en news.sap.com, 26/09/2023

SAP SE (NYSE: SAP) today announced Joule, a natural-language, generative AI copilot that will transform the way business runs. Joule will be embedded throughout SAP's cloud enterprise portfolio, delivering proactive and contextualized insights from across the breadth and depth of SAP solutions and third-party sources.

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Announcing Microsoft Copilot, your everyday AI companion

Publicada en blogs.microsoft.com, 21/09/2023.

We are entering a new era of AI, one that is fundamentally changing how we relate to and benefit from technology. With the convergence of chat interfaces and large language models you can now ask for what you want in natural language and the technology is smart enough to answer, create it or take action.

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Virtually Incredible: Mercedes-Benz Prepares Its Digital Production System for Next-Gen Platform With NVIDIA Omniverse, MB.OS and Generative AI

Publicada en blogs.nvidia.com, 20/09/2023

Automaker showcases the vital role of simulation when bringing up new factories. Mercedes-Benz is using digital twins for production with help from NVIDIA Omniverse, a platform for developing Universal Scene Description (OpenUSD) applications to design, collaborate, plan and operate manufacturing and assembly facilities.

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U.S. Solar Photovoltaic System and Energy Storage Cost Benchmarks, With Minimum Sustainable Price Analysis

Publicada en NREL, 1/09/2023.

This work was authored in part by the National Renewable Energy Laboratory, operated by Alliance for Sustainable Energy, LLC, for the U.S. Department of Energy (DOE) under Contract No. DE-AC36-08GO28308. Funding provided by U.S. Department of Energy Office of Energy Efficiency and Renewable Energy Solar Energy Technologies Office.

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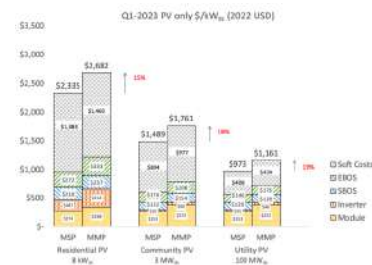


Figure ES-1. Q1 2023 U.S. PV cost benchmarks

PATENTES

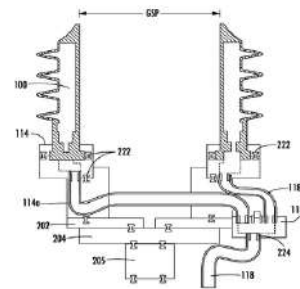
Field-Assembled Soft Gripping For Industrial And Collaborative Robots

Publicada en patentscope, 19/10/2023

Solicitante: SOFT ROBOTICS, INC.

A soft robotic gripper having component parts capable of being assembled in the field at the terminus of an industrial robot arm for providing adaptive gripping of a product. A hub includes a pneumatic inlet leading to outlets. Finger mounts with pneumatic passages hold inflatable fingers, and tension fastener(s) secure and compress the finger mounts toward the hub

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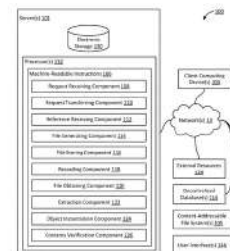
Systems And Methods For Writing Updates To And/OR Reading Previously Stored Updates Of Assets Implemented As Smart Contracts On A Decentralized Database

Publicada en patentscope, 19/10/2023

Solicitante: Trace Labs LLC

Systems and methods for writing updates to and/or reading previously stored updates of assets that are implemented as smart contracts on a decentralized database are disclosed. Exemplary implementations may: receive a first request, from a first client computing device associated with a first user, to write a first update to an individual asset

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Smart Deployment Of Industrial Iot Workloads

Publicada en patentscope, 18/10/2023

Solicitante: AMAZON TECH INC

A workload adaptation service of a provider network may perform smart deployment of industrial an IoT workload across resources of a provider network and a client network. The workload adaptation service may receive, from a user, an indication of one or more constraints for performance of a workload

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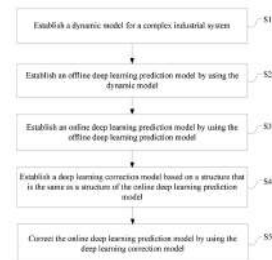
Adaptive Deep Learning-Based Intelligent Prediction Method, Apparatus, And Device For Complex Industrial System, And Storage Medium

Publicada en patentscope, 12/10/2023

Solicitante: NORTHEASTERN UNIVERSITY

Disclosed are an adaptive deep learning-based intelligent prediction method, apparatus, and device for a complex industrial system, and a storage medium. The method includes establishing a dynamic model for a complex industrial system; establishing an offline deep learning prediction model using the dynamic model

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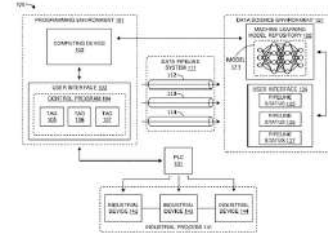
Tag Driven Data Pipelines In An Industrial Automation Environment

Publicada en patentscope, 21/09/2023

Solicitante: Rockwell Automation Technologies, Inc.

Various embodiments of the present technology generally relate to industrial automation environments. More specifically, embodiments include systems and methods to surface data pipelines in an industrial automation environment. In some examples, a design component generates a control program

[Veure més...](#)



Systems And Methods For Recording Robot Missions

Publicada en patentscope, 21/09/2023

Solicitante: Boston Dynamics, Inc.

Aspects of the present disclosure provide techniques to undo a portion of a mission recording of a robot by physically moving the robot back through the mission recording in reverse. As a result, after the undo process is completed, the robot is positioned at an earlier point in the mission and the user can continue to record further mission data from that point. The portion of the mission recording that was performed in reverse can be omitted from subsequent performance of the mission

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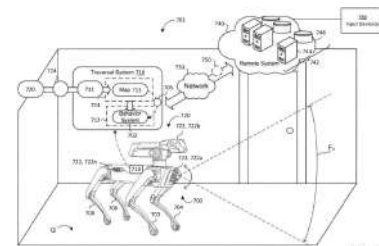


FIG. 7

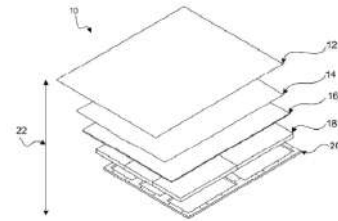
Interactive Display Surfaces

Publicada en patentscope, 21/09/2023

Solicitante: Touchwood Labs, Inc.

Touch responsive displays that may be integrated into a wide variety of non-transparent, non-glass surfaces to provide on-demand human computer interfaces that blend with the environment, i.e., remain invisible unless activated, effectively adding digital user interfaces (UI) to non-technology products and surfaces. The interactive display devices are frameless assemblies of a sensor layer, a light layer, and a support layer housing a microcontroller

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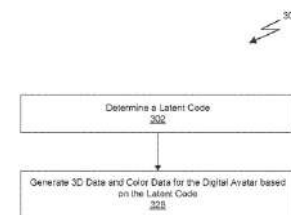
3D Digital Avatar Generation From A Single Or Few Portrait Images

Publicada en patentscope, 21/09/2023

Solicitante: NVIDIA Corporation

A system and method for generating a digital avatar from a two-dimensional input image in accordance with a machine learning models is provided. The machine learning models are generative adversarial networks trained to process a latent code into three-dimensional data and color data. A generative adversarial network (GAN) inversion optimization algorithm is run on the first machine learning model to map the input image to a latent code for the first machine learning model.

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Automated Construction Materials Management Platform

Publicada en patentscope, 21/09/2023

Solicitante: LEMOS, LLC

Methods for automatically processing, preparing, and managing a component analysis of a building from a BIM application are disclosed. In embodiments, a 3D model isolated from its surroundings is provided to a system for processing a rules engine to tag duplicate components, normalize component data, and extract relevant components for estimation. Some embodiments may employ machine learning to improve the accuracy and efficiency of the rules engine.

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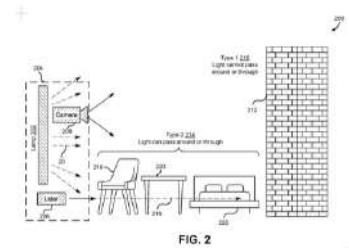
Automated Robotic Disinfection System And Method

Publicada en patentscope, 21/09/2023

Solicitante: HAYSTACK ROBOTICS, INC. [US]

Systems and methods are described for disinfecting a space, such as an interior room. In some aspects, at least one object in the space may be identified, such as by a mobile disinfecting device (device) including an ultraviolet lamp. Next, the object(s) may be categorizing as a certain type based on whether the object allows some light to pass through or around it. A route for the device may be determined, where the route includes a path and speed of the device corresponding to different segments of the path to yield a dosage score

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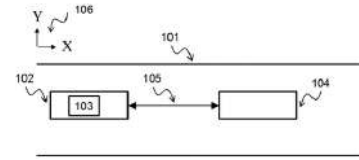
Autonomous Driving Method And Device For A Motorized Land Vehicle

Publicada en patentscope, 21/09/2023

Solicitante: PSA AUTOMOBILES SA

The invention relates to an autonomous driving method for a motorized land vehicle, called an ego-vehicle 102, by adaptive speed regulation based on a target speed. The method is suitable for detecting a first target vehicle 104 and for calculating a relevance indicator for the first target vehicle 104, which is configured to characterize a probability of presence of the first target vehicle. Upon detection of a loss of detection of the first target vehicle 104 and if the relevance indicator is greater than a predetermined deselection value

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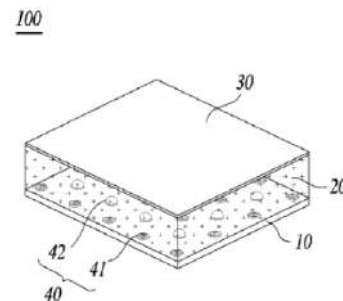
Biomimetic Tactile Sensor, Robotic Skin Comprising The Same And Preparation Method Therefor

Publicada en patentscope, 21/09/2023

Solicitante: Korea Advanced Institute of Science and Technology

Disclosed herein are a biomimetic tactile sensor, a robotic skin including the same, and a preparation method therefor. The biomimetic tactile sensor includes a base layer on which a plurality of electrodes and a plurality of microphones are arranged to be distributed, a hydrogel layer disposed on the base layer, and a stimulus receiving layer disposed on the hydrogel layer, and the biomimetic tactile sensor senses a tactile stimulus accompanied by pressure, vibration, or both.

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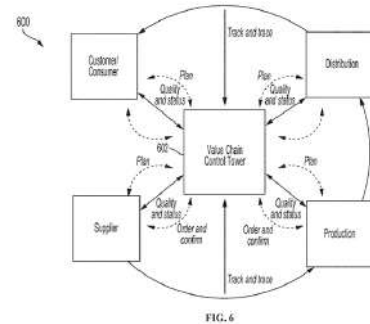
Clustering-Based Intelligence Service Layer for Robotic Fleet Maintenance

Publicada en patentscope, 21/09/2023

Solicitante: Strong Force VCN Portfolio 2019, LLC

A robotic fleet management platform includes a resources data store maintaining a fleet resource inventory indicating fleet resources that can be assigned to a robotic fleet. For each fleet resource, the fleet resource inventory indicates maintenance status data, a predicted maintenance need, and/or a preventive maintenance schedule. A library of fleet resource maintenance requirements facilitates determining maintenance workflows, service actions, and/or service parts. The platform calculates predicted maintenance need of a fleet

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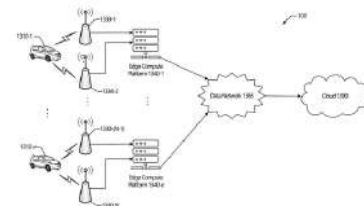
Edge-Centric Techniques And Technologies For Monitoring Electric Vehicles

Publicada en patentscope, 21/09/2023

Solicitante: Intel Corporation

The present disclosure is generally related to connected vehicles, computer-assisted and/or autonomous driving vehicles, Internet of Vehicles (IoV), Intelligent Transportation Systems (ITS), and Vehicle-to-Everything (V2X) technologies, and in particular, to technologies and techniques of a road usage monitoring (RUM) service for monitoring road usage of electric vehicles.

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Electric Energy And Carbon Emission Measurement Accounting Method Based On Digital Payment Wallet And Blockchain

Publicada en patentscope, 21/09/2023

Solicitante: Xizhong ZHOU

Disclosed in the present application is an electric energy and carbon emission measurement accounting method based on a digital payment wallet and a blockchain. Automatic measurements on power generation capacity (electricity supply data) and power consumption (electricity consumption data) of a regional power distribution network are performed by the blockchain in combination with the digital payment wallet. Problems about establishment, authentication, and right confirmation of a digital identity of a smart meter are resolved.

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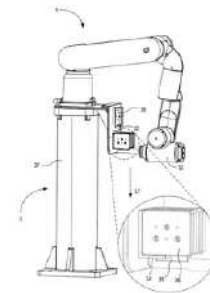
Fixing Platform For Use With Industrial Robot And Method Of Automatically Measuring Backlash Of Gear

Publicada en patentscope, 21/09/2023

Solicitante: ABB SCHWEIZ AG [CH]

A fixing platform (3), comprises a baseplate (32), a securing component (34) provided on the baseplate (32); a balancing weight (36) coupled to a terminal arm (10) of an industrial robot (1); and a cylinder (38) provided on the baseplate (32) and adjacent to the securing component (34). The cylinder (38) comprises a plunger (380) configured to move along a first direction (L1) to clamp the balancing weight (36) when the balancing weight (36) is coupled to the securing component (34). A method of automatically measuring a backlash of a gear (400) is also provided.

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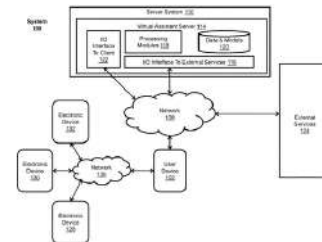
Intelligent Assistant For Home Automation

Publicada en patentscope, 21/09/2023

Solicitante: Apple Inc.

This relates to systems and processes for using a virtual assistant to control electronic devices. In one example process, a user can speak an input in natural language form to a user device to control one or more electronic devices. The user device can transmit the user speech to a server to be converted into a textual representation. The server can identify the one or more electronic devices and appropriate commands to be performed by the one or more electronic devices based on the textual representation.

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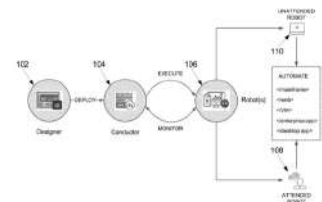
Long Running Workflows For Robotic Process Automation

Publicada en patentscope, 21/09/2023

Solicitante: UiPath, Inc.

Systems and methods for executing a robotic process automation (RPA) workflow are provided. The RPA workflow is executed by a first robot. The execution of the RPA workflow is suspended by the first robot. A current context of the RPA workflow is serialized at a time of the suspension and the current context of the RPA workflow is stored. The execution of the RPA workflow is resumed by a second robot based on a triggering condition by retrieving the current context of the RPA workflow.

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Method And System For Assessing Whether A Vehicle Is Likely To Leave An Off-Road Parking Area

Publicada en patentscope, 21/09/2023

Solicitante: FORD GLOBAL TECHNOLOGIES, LLC [US]

This document discloses system, method, and computer program product embodiments for assessing whether a vehicle that is positioned in an off-road parking area is exhibiting intent to enter the road. If the vehicle exhibits such intent, the system may forecast a trajectory for the vehicle. If the vehicle does not exhibit such intent, a trajectory forecast may not necessarily be required.

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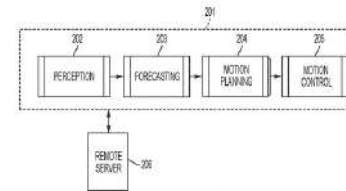


FIG. 2

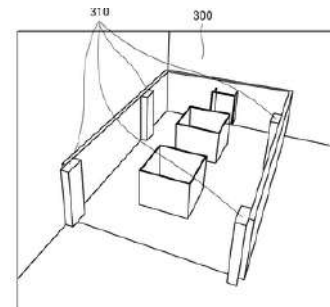
Method And System For Constructing Map Topology In Web-Based Digital Twin Environment

Publicada en patentscope, 21/09/2023

Solicitante: PLUXITY CO., LTD. [KR]

Disclosed is a method for constructing a map topology in a web-based digital twin environment, the method being implemented by a processor and comprising the steps of: receiving object data of multiple objects constituting a building model; extracting an internal boundary line and an external boundary line by using the object data; identifying a drivable interval of an autonomous driving device on the basis of the internal boundary line and the external boundary line

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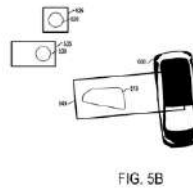
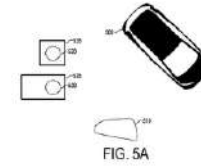
Offline Tracking System for Autonomous Vehicle Control Systems

Publicada en patentscope, 21/09/2023

Solicitante: GM Cruise Holdings LLC

Disclosed are systems, apparatuses, methods, and computer-readable media to autonomous driving vehicles and, in particular, for tracking objects in an environment that an autonomous vehicle (AV) is navigating. A method includes receiving environment data from at least one sensor in an AV control system mounted to the AV, the environment data including online tracking data that identifies at least one object within the environment data that is recorded at drive time

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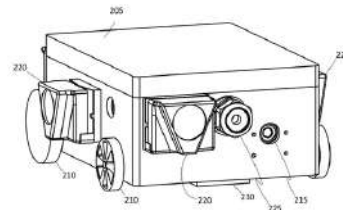
Robotic Systems And Methods For Tank Seal Inspection

Publicada en patentscope, 21/09/2023

Solicitante: Board of Regents, The University of Texas System

Robotic systems and methods for tank seal inspection. A tank inspection robot includes a housing containing a drive assembly, and wheels disposed outside of the housing and operably coupled to the drive assembly. The tank inspection robot also includes at least one sensor coupled to, or disposed in or on a portion of the robot, for collecting data sufficient to evaluate a health, mechanical integrity or effectiveness of one or more circumferential seals

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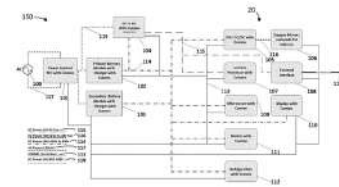
Smart Dual AC/DC Power System

Publicada en patentscope, 21/09/2023

Solicitante: Le Bread Xpress Inc.

A system and method are provided that use an AC power supply, a battery, and intelligent control, to power a system. During idle or down times, the power system stores energy from the AC power supply. When the powered system is in operation and the power needed exceeds that available from the AC power supply, stored power from the battery supplies the difference between the required power and the available AC power.

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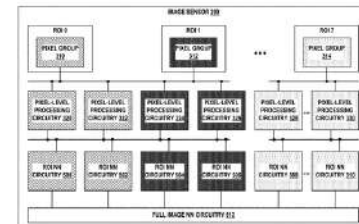
Smart Sensor Scheduler

Publicada en patentscope, 21/09/2023

Solicitante: Waymo LLC

A system includes an image sensor having a plurality of pixels that form a plurality of regions of interest (ROIs), image processing resources, and a scheduler configured to perform operations including determining a priority level for a particular ROI of the plurality of ROIs based on a feature detected by one or more image processing resources of the image processing resources within initial image data associated with the particular ROI.

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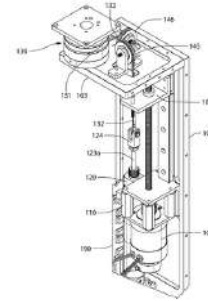
Theta Robot With Preloaded Drive System

Publicada en patentscope, 21/09/2023

Solicitante: Service Support Specialties, Inc.

A theta robot with integrated preload system in one embodiment includes a cable-operated drive mechanism including a rotatable pulley drum, motor drive operably coupled to the drum by drive cable, and follower piston cylinder operably coupled to the drum by a follower cable. The piston cylinder may be under vacuum and operably applies a tensile load and resistance on the pulley drum via the follower cable which eliminates clearance between meshed driving and driven components of the drive mechanism.

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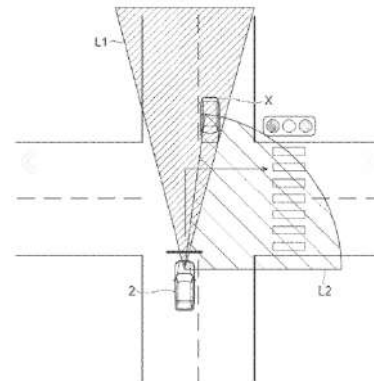
Vehicle Remote Instruction System

Publicada en patentscope, 21/09/2023

Solicitante: TOYOTA JIDOSHA KABUSHIKI KAISHA

In a vehicle remote instruction system, a remote commander issues a remote instruction relating to travel of an autonomous driving vehicle based on sensor information from an external sensor that detects an external environment of the autonomous driving vehicle. The vehicle remote instruction system sets a range of information to be transmitted to the remote commander among the sensor information detected by the external sensor

[Ver más...](#)



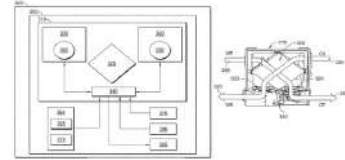
Ventilation System With Automatic Flow Balancing Derived From A Neural Network And Methods Of Use

Publicada en patentscope, 21/09/2023

Solicitante: Broan-NuTone LLC

A ventilation system with automatic flow balancing derived from a neural network to consistently achieve a desired flow rate for inlet flow and/or outlet flow in various operating environments to optimize system performance. The system includes a ventilation device that includes an exhaust blower assembly with a blower motor and a control circuit having a mathematical equation that determines an estimated exhaust blower flow based upon select inputs.

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A Building Automation Network

Publicada en patentscope, 20/09/2023

Solicitante: SIEMENS SCHWEIZ AG

The invention relates to a building automation network (1) comprising at least one embedded edge device (2) having an edge digital service agent (2A) adapted to fetch automatically container images of configured containers via a data interface (6) of said edge device (2) from a cloud-based container repository (5A)

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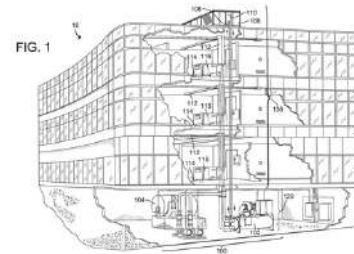
Building Automation System With Remote Advisory Services

Publicada en patentscope, 20/09/2023

Solicitante: JOHNSON CONTROLS TYCO IP HOLDINGS LLP

One embodiment of the present disclosure is a system. The system includes one or more memory devices having instructions stored thereon that, when executed by one or more processors, cause the one or more processors to perform operations.

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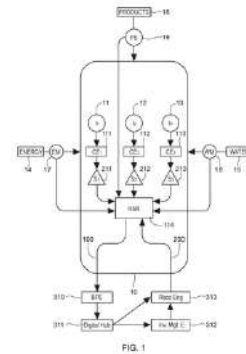
Digital Home Control And Recommendations

Publicada en patentscope, 20/09/2023

Solicitante: PROCTER & GAMBLE

A computer implemented method for generating parameters associated with at least one consumption event within a domicile, the method having the steps of identifying at least one consumption event selected from the group consisting of water usage, energy usage, and product usage, generating data by at least one input data source

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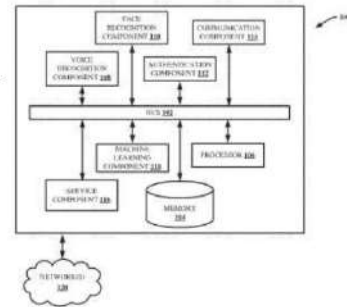
Facilitating Automating Home Control

Publicada en Latipat, 14/09/2023

Solicitante: RESILIENCE MAGNUM IP LLC [US] +

Systems, computer-implemented methods and/or computer program products that facilitate automating home control are provided. In one embodiment a computer-implemented method comprises: using a voice recognition component to identify user identification

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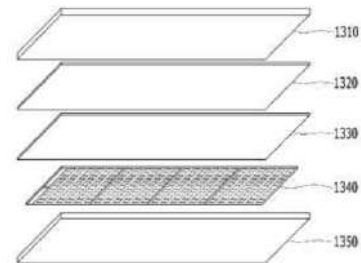
System Including Smart Home Mat And Method For Controlling Same

Publicada en Latipat, 14/09/2023

Solicitante: LG ELECTRONICS INC [KR] +

A method for controlling a system including a smart home mat, according to an embodiment of the present invention, comprises the steps of: capturing an image of a user through a camera of a TV

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Control Method, Apparatus And System For Smart Home Device, And Storage Medium

Publicada en Latipat, 7/09/2023

Solicitante: QINGDAO HAIER AIR CONDITIONER GENERAL CORP LTD [CN]; QINGDAO HAIER AIR CONDITIONING ELECTRONIC CO LTD [CN]; HAIER SMART HOME CO LTD [CN] +

A control method, apparatus and system for a smart home device, and a storage medium. The method comprises: if a sleep intention of a user is detected, acquiring user identity information (S101); according to a preset association relationship between identity information and a sleep music identifier

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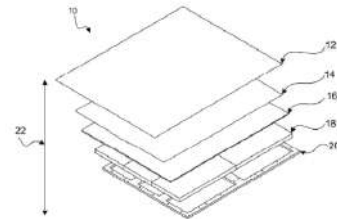
Photovoltaic Smart Window

Publicada en patentscope, 6/09/2023

Solicitante: UBIQUITOUS ENERGY INC

Described herein are systems, methods, devices, and other techniques for implementing smart windows, smart home systems that include smart windows, and user devices and applications for control thereof. A smart window, or photovoltaic window

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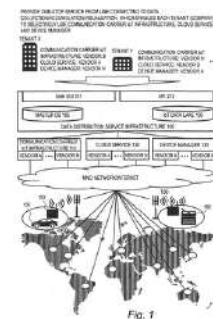
IoT System And Data Collection Control Method

Publicada en patentscope, 6/09/2023

Solicitante: HITACHI LTD

It is provided an IoT system, comprising: a communication device in which an identification module for controlling a communication requirement is installed, and which is configured to communicate to/from a cloud server; an asset which is connected to the communication device;

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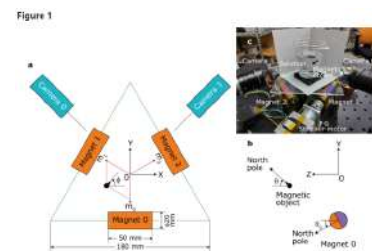
PUBLICACIONES CIENTÍFICAS

Three-dimensional motion control of an untethered magnetic object using three rotating permanent magnets

Publicada en nature, 23/10/2023

Magnetic motion control has been actively studied mainly for the purpose of biomedical applications. However, in many cases, many actuator magnets surround a small magnet to be moved, and they consume large electric power. In some cases, complex calculations are required to estimate the control input of the actuator magnets.

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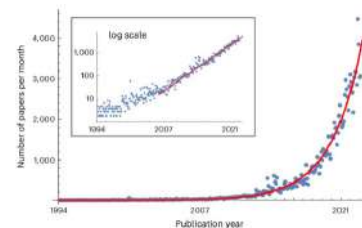


Forecasting the future of artificial intelligence with machine learning-based link prediction in an exponentially growing knowledge network

Publicada en arxiv.org, 16/10/2023

A tool that could suggest new personalized research directions and ideas by taking insights from the scientific literature could profoundly accelerate the progress of science. A field that might benefit from such an approach is artificial intelligence (AI) research, where the number of scientific publications has been growing exponentially over recent years, making it challenging for human researchers to keep track of the progress.

[Ver más...](#)



Navigating the Jagged Technological Frontier: Field Experimental Evidence of the Effects of AI on Knowledge Worker Productivity and Quality

Publicada en <https://papers.ssrn.com>, 18/09/2023.

The public release of Large Language Models (LLMs) has sparked tremendous interest in how humans will use Artificial Intelligence (AI) to accomplish a variety of tasks. In our study conducted with Boston Consulting Group, a global management consulting firm, we examine the performance implications of AI on realistic, complex, and knowledge-intensive tasks.

[Ver más...](#)

Telecom AI Native Systems in the Age of Generative AI – An Engineering Perspective

Publicada en <https://papers.ssrn.com>, 18/10/2023.

The rapid advancements in Artificial Intelligence (AI), particularly in generative AI and foundational models (FMs), have ushered in transformative changes across various industries. Large language models (LLMs), a type of FM, have demonstrated their prowess in natural language processing tasks and content generation, revolutionizing how we interact with software products and services.

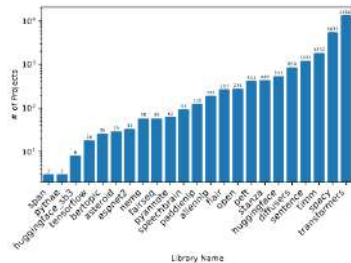
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PeaTMOSS: Mining Pre-Trained Models in Open-Source Software

Publicada en arxiv.org, 5/10/2023

Developing and training deep learning models is expensive, so software engineers have begun to reuse pre-trained deep learning models (PTMs) and fine-tune them for downstream tasks. Despite the wide-spread use of PTMs, we know little about the corresponding software engineering behaviors and challenges.

[Ver más...](#)

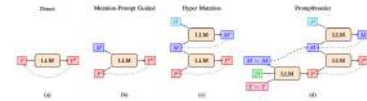


Promptbreeder: Self-Referential Self-Improvement Via Prompt Evolution

Publicada en arxiv.org, 28/09/2023

Popular prompt strategies like Chain-of-Thought Prompting can dramatically improve the reasoning abilities of Large Language Models (LLMs) in various domains. However, such hand-crafted prompt-strategies are often sub-optimal. In this paper, we present Promptbreeder, a general-purpose self-referential self-improvement mechanism that evolves and adapts prompts for a given domain.

[Ver más...](#)

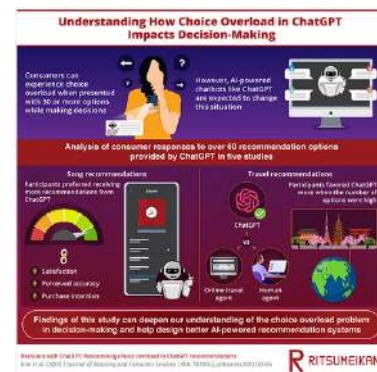


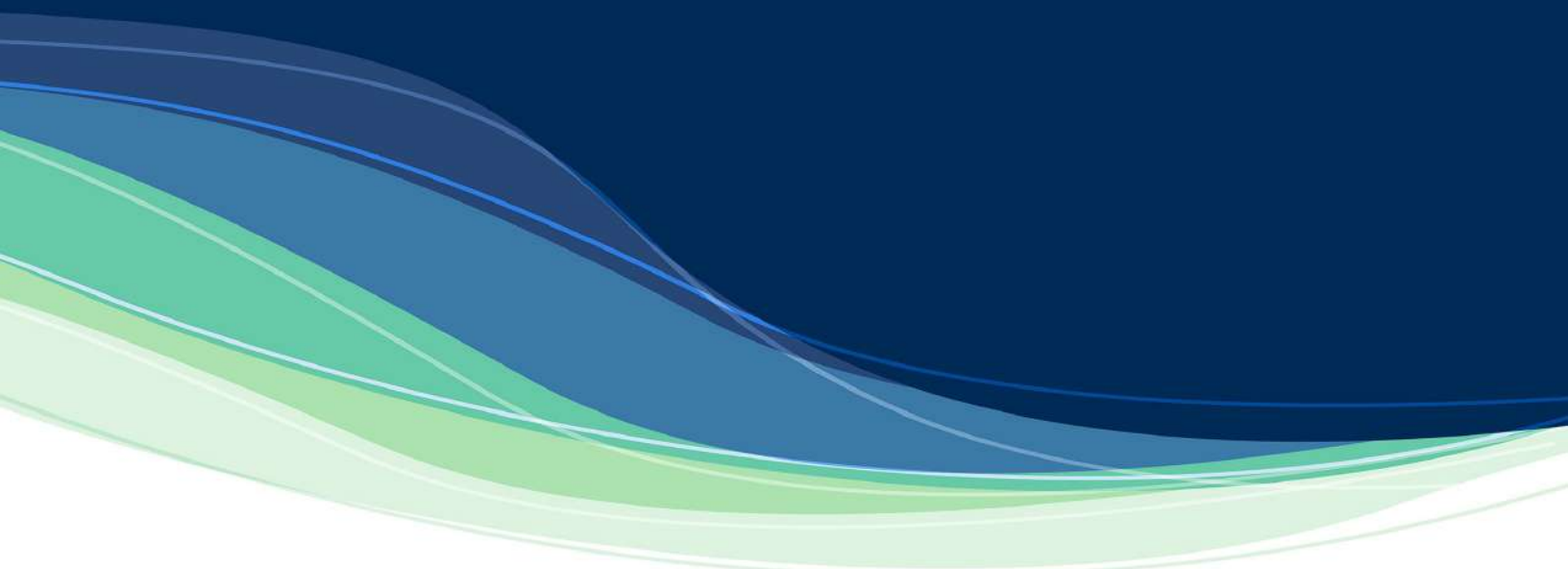
Understanding How Choice Overload in ChatGPT Recommendations Impacts Decision-Making

Publicada en en.ritsumeui.ac.jp, 20/09/2023

AI will soon revolutionize the way we interact with computers. With the ability to mimic human-like conversations, advanced chatbots like ChatGPT are expected to influence decision-making. In this regard, scientists from Japan investigated the impact of choice overload in recommendation options generated by ChatGPT. By analyzing user responses to a large number of options provided by ChatGPT in different scenarios, they provide key insights for designing AI-powered recommendation systems.

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