SmartLivingPlat

Plataforma Tecnológica de la Domótica y las Ciudades Inteligentes

Boletín de Vigilancia Tecnológica

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SMART BUILDINGS
SMART CITIES
INDUSTRIA 4.0

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NOTICIAS

Delivering the US manufacturing renaissance

Publicada en https://www.mckinsey.com, 29/08/2022.

US manufacturing may be poised for an overhaul and a rebound, with a potentially significant impact on the nation's overall economy. In the United States, manufacturing accounts for $2.3 trillion in GDP, employs 12 million people, and supports hundreds of local economies.

ver más...

Distributed Energy Generation Market is Growing Faster

Publicada en altenergymag, 22/08/2022.

The global distributed energy generation market is growing at a registered CAGR of 9.89% from 2022 to 2030, according to Vision Research Reports. The increasing need for energy and the high costs of grid expansion are the major factors driving the market growth.

ver más...

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UPDATED 8.16.2022 – Impacts on Global Supply Chain Logistics

Publicada en https://content.borderstates.com/, 16/08/2022.

As we continue to navigate unprecedented global supply chain challenges, Border States is committed to keeping you updated regarding material lead time impacts, inflationary pressures and other market trends. We are working diligently to provide you with the most current information possible, knowing this information could change at any point.

ver más...

European Commission - In focus: Energy and smart cities

Publicada en https://smart-cities-marketplace.ec.europa.eu/, 26/07/2022.

European cities are a hub for all sorts of activities – a pathway for study opportunities, jobs and services because of their key infrastructure and economic activity. More than three-quarters of the EU population live in urban areas and this figure is expected to rise to almost 85% by 2050.

ver más...

Volver al índice

25 of the World's Top Web3 Companies in 2022

Publicada en https://metaverseinsider.tech, 21/07/2022.

The metaverse and web3 are intricately intertwined. Although different theoretically, web3 and the metaverse are reliant on one another. The technology overlap makes their relationship symbiotic. In this article, we dive into what the web3 era is all about and what web3 companies are. We will also highlight twenty-five of the world's top web3 companies in 2022 while shedding light on the history of the 'web.'

ver más...

Which companies could become Maestros of the Metaverse?

Publicada en https://www.digital-science.com, 20/07/2022.

Patent data reveals the reality of top innovators in the virtual world. A new study by world leaders in patent data has revealed the companies that are poised to become the "Maestros of the Metaverse", conducting the most innovations to underpin the 3D virtual reality space of the near future. IFI CLAIMS – a Digital Science company dedicated to providing the world's most trusted patent data for research, innovation and technology – says patent applications provide telling insights into the leaders of innovation.

ver más...

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Hamdan bin Mohammed launches Dubai Metaverse Strategy

Publicada en http://wam.ae, 18/07/2022.

DUBAI, 18th July, 2022 (WAM) -- In line with the directives of His Highness Sheikh Mohammed bin Rashid Al Maktoum, Vice President, Prime Minister and Ruler of Dubai, H.H. Sheikh Hamdan bin Mohammed bin Rashid Al Maktoum, Crown Prince of Dubai and Chairman of Dubai Executive Council, today launched the Dubai Metaverse Strategy that aims to turn Dubai into one the world's top 10 metaverse economies as well as a global hub for the metaverse community.

ver más...

Gaining Public Trust In Smart Cities With Data Transparency

Publicada en https://smartcitiesconnect.org, 15/07/2022.

The cities of Angers-Loire in France, the town of Innisfil in Canada, the city of Boston, and the District of Columbia are currently testing the open source Digital Trust for Places and Routines (DTPR) communication standard. DTPR is a collection of visual icons designed to provide more transparency about technology – such as sensors and cameras – that is installed in public spaces. The goal of the pilots is to increase trust around smart city projects and give residents a new way to provide feedback.

ver más...

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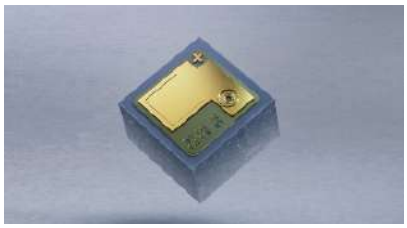
EMPRESAS Y MERCADOS

TRUMPF introduces a state-of-the art single-mode VCSEL platform for their industrial sensing products

Publicada en https://www.trumpf.com, 31/08/2022.

Upgraded VCSEL product platform for higher performance needed in demanding industrial applications // Increase in efficiency for optical sensing systems by less power consumption of new VCSEL // Single-mode VCSEL serves high-volume applications and highly integrated sensors // Multi-year contracts signed with multiple leading players in the oxygen sensing branch.



ver más...

Bloomberg New Energy Finance ranks Boviet Solar as tier 1 solar module manufacturer for q3 2022

Publicada en altenergymag, 30/08/2022.

Boviet Solar now achieves Tier 1 status Q1, Q2, Q3 of 2022. Founded in 2013 in Vietnam, Boviet Solar is part of Boway Alloy and a global Tier 1 solar technology company that specializes in the manufacturing of Monocrystalline PERC cells, Gamma Series™ Monofacial and Vega Series™ Bifacial PV modules, as well as solar project development.

ver más...

Volver al índice

Kohler Power and Heila Technologies Feature Innovative Solutions to Strengthen Energy Resiliency at RE+ 2022

Publicada en altenergymag, 29/08/2022.

Kohler Power – through its Home Energy Management Systems division – and subsidiary Heila Technologies will join the RE+ (previously known as SPI Solar Power International) 2022 Trade Show highlighting the brands' newest innovations within the solar energy space. This marks the first time that the two companies are both exhibiting at the same show since Heila was acquired by Kohler Co. in early 2022.

ver más...

Double award success for Switch2 Energy's smart heat network solutions

Publicada en altenergymag, 29/08/2022.

Switch2 Energy has been shortlisted for two prestigious awards for its outstanding contribution to the heat network industry. Judges of the prestigious H&V News Awards nominated Switch2's Greenwich Millennium Village heat network retrofit as 'District Heating Project of the Year', while the company's ICON connected heat interface unit (HIU) has been shortlisted for 'Domestic Heating Product of the Year' award.

ver más...

Volver al índice

Leading a shared vision of Industry 4.0 transformation

Publicada en https://www.channelnewsasia.com, 29/08/2022.

Imagine having to conduct maintenance checks on an 11-axis CNC (computer numerical control) machine that is so large, a boom lift is needed for operators to inspect its motors on higher levels. Most CNC machines consist of a computer-controlled motorised tool and platform that are manoeuvered together to process raw materials.

ver más...

Nextspace to assist digital twin interoperability in NVIDIA's Omniverse

Publicada en https://www.geoweeknews.com, 29/08/2022.

The federation of digital twins can add new capabilities to the "industrial metaverse." AUGUST 29, 2022. Nextspace to assist digital twin interoperability in NVIDIA's Omniverse. The federation of digital twins can add new capabilities to the "industrial metaverse." Perhaps the biggest buzzword in the entire broad tech world right now is “metaverse,” which is expected to be the next stage of the internet experience, though there are significant disagreements about what exactly it even means. That said, the geospatial industry will play a role in its development, whatever form it takes, the backbone of that development is going to be digital twins.

ver más...

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Taoping expands e-bike charging network to 50 Chinese cities

Publicada en https://www.smartcitiesworld.net/, 24/08/2022.

The number of electric bicycles in China has grown to more than 340 million. The blockchain and smart cloud services company has received in excess of 320,000 orders for its charging solution, which it developed with smart cities infrastructure company Shenzhen Zhicheng Chuangtou New Energy.

ver más...

Panasonic Announces New EverVolt AllGuard All System Warranty Covering Solar Panels and Battery Storage

Publicada en altenergymag, 23/08/2022.

Homeowners can now experience worry-free protection on their entire solar energy system from one of America’s most trusted brands

ver más...

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Stable Diffusion Public Release

Publicada en https://stability.ai/, 20/08/2022.

It is our pleasure to announce the public release of stable diffusion following our release for researchers [https://stability.ai/blog/stable-diffusion-announcement]. Over the last few weeks we all have been overwhelmed by the response and have been working hard to ensure a safe and ethical release, incorporating data from our beta model tests and community for the developers to act on.

ver más...

Inductive automation addresses strong demand for ignition training–endorses flexware innovation for delivery of in-person training in ignition

Publicada en https://www.flexwareinnovation.com, 16/08/2022.

FOLSOM, Calif. (August 16, 2022) — Inductive Automation (IA) has experienced strong growth in demand globally for Ignition training both in-person and online. To assist in addressing this challenge IA has endorsed Flexware Innovation, Inc. for the delivery of IA in-person training classes.

ver más...

Volver al índice

PassiveLogic partners to advance building autonomy tech

Publicada en https://www.smartcitiesworld.net, 08/08/2022.

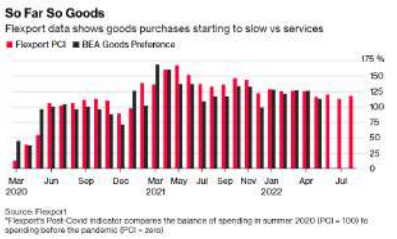
The collaboration will help to develop controls that enable buildings to self-optimise their operation. It is taking part in a 24-month research collaboration with the Pacific Northwest National Laboratory to develop deep AI that will help create predictive controls to decarbonise buildings.

ver más...

Supply Chains Inching Back to Normal Brace for Headwinds of Softer Demand

Publicada en https://www.bloomberg.com/, 17/07/2022.

Supply Lines is a daily newsletter that tracks trade and supply chains disrupted by the pandemic. Sign up here. Rock guitarist Jack White, who extended his “Supply Chain Issues Tour” into October, might want to name his band’s next road trip after a different villain.



ver más...

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PATENTES

Automated robotic floor map generation

Publicada en PATENTSCOPE Industria intelligente, 30/08/2022.

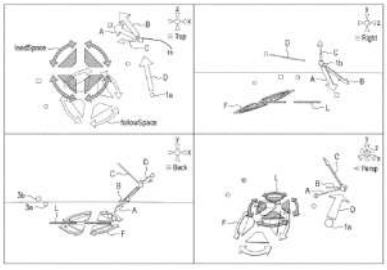
Solicitante: Amazon Technologies, Inc.
A system can be configured to generate and analyze one or more candidate logistics maps based on a set of input parameters and a baseline map of a logistics facility. The system can identify modifications strategies, resource limits, regions of interest, mapping constraints through analysis of the input parameters and the baseline map. The generated candidate maps and the baseline map can be implemented in virtual environments that are configured to replicate one or more operations associated with the baseline map, such as item distribution, item retrieval, and reorganization operations. The virtual environment can further simulate the resource limits associated with the baseline map and compare performance indicators from simulation of the baseline map to performance indicators from simulation of the candidate maps to identify viable improvements over existing logistics solutions.

ver más...

Resilient interdependent spatial alignment to improve and maintain spatial alignment between two coordinate systems for augmented reality and other applications

Publicada en PATENTSCOPE Industria intelligente, 30/08/2022.

Solicitante: Argyle Inc.
A computer-implemented method implements a resilient interdependent spatial alignment (RISA) process to improve and maintain spatial alignment between two associated coordinate systems by moving a follow coordinate system to align it to a lead coordinate system. In some use cases, the coordinate systems may be a physical space and a corresponding digital model of the space.



ver más...

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Adaptive smart shelf for autonomous retail stores

Publicada en PATENTSCOPE Industria intelligente, 26/08/2022.

Solicitante: EVERSEEN LIMITED
An imaging arrangement for capturing one or more views of a horizontal shelf of an autonomous retail store includes an image sensor positioned at a back portion of the horizontal shelf, a top mirror mounted at a top portion of the horizontal shelf, to enable the image sensor to capture a top view of one or more products on the horizontal shelf, a front mirror mounted at a front top portion of the horizontal shelf, and a back mirror mounted at a back top portion of the horizontal shelf, wherein the back mirror is inclined at a pre-defined angle with respect to the front mirror, and wherein the front and back mirrors enable the image sensor to capture a front view of the one or more products on the horizontal shelf.

ver más...

Behavior recognition method and apparatus, and electronic device and storage medium

Publicada en Patentscope_Domótica, 25/08/2022.

SOlicitante: SHANGHAI SENSETIME INTELLIGENT TECHNOLOGY CO., LTD.
The present disclosure relates to a behavior recognition method and apparatus, and an electronic device and a storage medium. The method comprises: acquiring differential information of data of adjacent frames; on the basis of the differential information, determining first data in the data that represents motion information

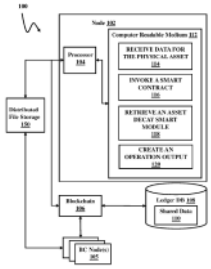
ver más...

Volver al índice

Cognation of a digital corollary in a blockchain network

Publicada en PATENTSCOPE Industria intelligente, 25/08/2022.

Solicitante: International Business Machines Corporation
A node in a blockchain network may receive an event initiation for a digital corollary, receive conditional data related to the digital corollary, invoke a smart contract for the digital corollary with instructions to retrieve and run an asset decay smart module, receive an asset decay smart module from an asset decay smart module repository, and process the asset decay smart module with the conditional data to determine an asset decay.

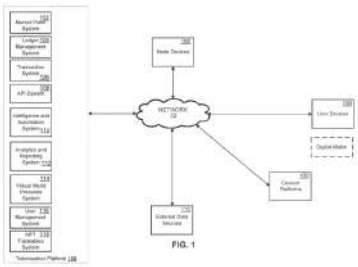


ver más...

Configuration, unboxing, and crafting of token-based assets

Publicada en PATENTSCOPE Industria intelligente, 25/08/2022.

Solicitante: QUIGLEY, William Edward [US] et al.
Systems and methods for automatically generating and deploying digital tokens, unboxing digital packs and mystery boxes to obtain digital tokens, crafting digital tokens, and performing other actions related to a collectible token ecosystem using a distributed ledger, such as a blockchain, are disclosed. The systems and methods may be implemented by a tokenization platform, various devices, and/or various distributed ledger smart contracts.



ver más...

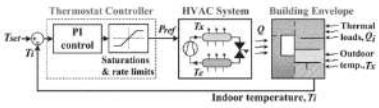
Volver al índice

HVAC system using interconnected neural networks and online learning and operation method thereof

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: POSTECH RESEARCH AND BUSINESS DEVELOPMENT FOUNDATION

The present disclosure provides a heating, ventilation, and air conditioning (HVAC) system including interconnected artificial neural networks trained for respective subsystems that are required for building temperature control.



ver más...

Haptic feedback device and a method of controlling same

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: TECHNION RESEARCH & DEVELOPMENT FOUNDATION LIMITED [IL]

A haptic feedback device is disclosed. The haptic feedback device may include at least one texture emulator; a housing at least partially containing the texture emulator; and a controller configured to: receive instructions to provide a texture sensation; and control the texture emulator to apply force to at least one location on a surface based on the received instructions.

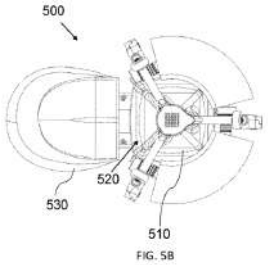


FIG. 5B

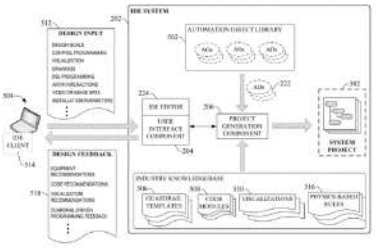
ver más...

Volver al índice

Industrial automation smart object inheritance

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: Rockwell Automation Technologies, Inc.
An industrial integrated development environment (IDE) provides a development framework for designing, programming, and configuring multiple aspects of an industrial automation system using a common design environment and data model. Projects creating using embodiments of the IDE system can be built on an object-based model rather than, or in addition to, a tag-based architecture.

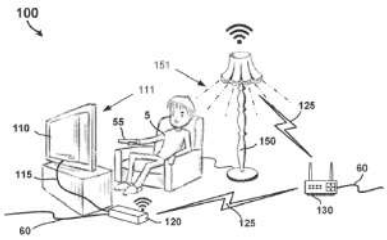


ver más...

Metadata-based smart home automation

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: CHARTER COMMUNICATIONS OPERATING, LLC
Systems, methods, and devices of the various embodiments include initiating operation of network application logic by detecting control of a network-connected electronic device within a predetermined interval of a previous receipt of instructions related to playing media content that includes content-type metadata that identifies the media content as being a predetermined type of content



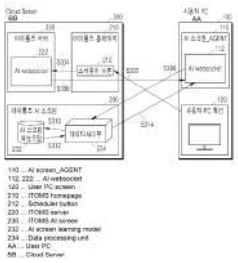
ver más...

Volver al índice

Method and system for generating event in object on screen by recognizing screen information on basis of artificial intelligence

Publicada en Patentes AI patentscope, 25/08/2022.

Solicitante: INFOFLA INC. [KR]
A method for generating an event in an object on a screen by recognizing screen information on the basis of AI may comprise: connecting to a web-based IT operation management system platform through a user PC to register a scheduler; notifying, an AI web socket of the web-based IT operation management system platform, of the scheduler registration if the scheduler is registered

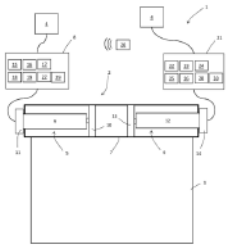


ver más...

Method for controlling an operating device comprising a master actuator and a slave actuator and associated home automation shading system

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: SOMFY ACTIVITES SA [FR]
Disclosed is a method for controlling an operating device (2) for operating a screen (3) of a home automation shading system (1) between at least a first position and a second position, the operating device comprising: - a first actuator (5) equipped with a first electric motor (9), a torque detection device (19) and a position management module (27), - a second actuator (6) equipped with a second electric motor (12)



ver más...

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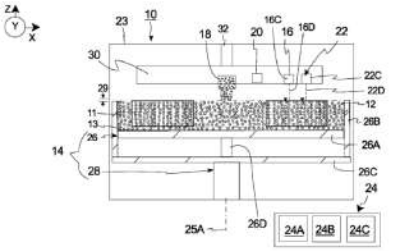
Power supply assembly for additive manufacturing system

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: Nikon Corporation
A processing machine (10) for building an object (11) from powder (12) includes a build platform (434A); a powder supply assembly (418); and an energy system (22) that melts the powder (12) on the build platform (434A) to form the object (11).



ver más...

Service authorization method, system, and communication device

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: HUAWEI TECHNOLOGIES CO., LTD. [CN]
Disclosed in embodiments of the present application are a service authorization method, a system, and a communications device. The method comprises: a first network element obtains a first access token from a token generating network element, and sends to a second network element a first service request for a specified service, the first service request comprising the first access token.

ver más...

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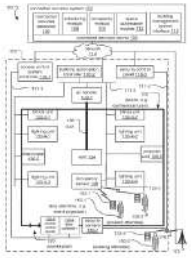
System and method for controlling building management systems for scheduled events

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: Sensormatic Electronics, LLC
An event automation system controls building management systems (e.g. building automation, access control, and/or security systems of a building) for scheduled events. An occupancy module generates occupancy information for event spaces where events are scheduled via occupancy sensors installed at the event spaces.

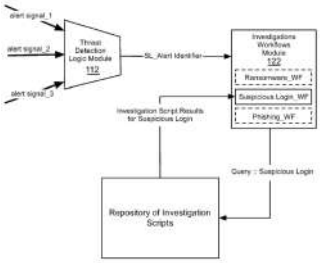


ver más...

Systems and methods for cyber security threat detection and expedited generation of investigation storyboards using intelligent cyber security automations

Publicada en PATENTSCOPE Industria intelligente, 25/08/2022.

Solicitante: Expel, Inc.
A system and method for generating a digital cybersecurity artifact includes selectively executing an automated cybersecurity investigation workflow based on a probable cybersecurity threat type of a cybersecurity event, wherein an output of the automated cybersecurity investigation workflow includes one or more corpora of investigation findings data in response to executing the automated cybersecurity investigation workflow; selectively instantiating a digital cybersecurity artifact of a plurality of digital cybersecurity artifacts based on the probable cybersecurity threat type of the cybersecurity event



ver más...

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Tactile feedback method and apparatus for virtual button, and electronic device

Publicada en Patentscope_Domótica, 25/08/2022.

Soliciante: BOE TECHNOLOGY GROUP CO., LTD. [CN]
The present application relates to the field of piezoelectric technologies, and provides a tactile feedback method and apparatus for a virtual button, and an electronic device. The method of the present application comprises: controlling a touch display panel to display at least one virtual button; obtaining a touch position detected by the touch display panel;

ver más...

Vehicle infotainment system

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: HUAWEI TECHNOLOGIES CO., LTD. [CN]
Provided is a vehicle infotainment system (100, 400, 500). The vehicle infotainment system includes a repositionable display (102, 602), a sensing arrangement (108), and a controller (110, 620). The repositionable display is attached to a vehicle and slidable along a defined path between a first position (104) and a second position (106) within the vehicle. The sensing arrangement detects a position of the repositionable display.

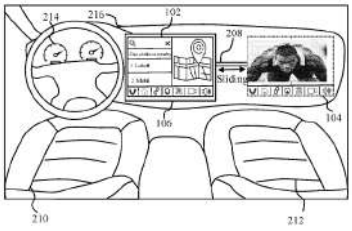


FIG. 2

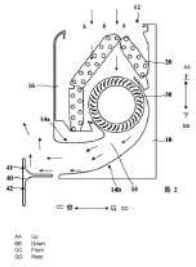
ver más...

Volver al índice

Wall-mounted indoor air conditioning unit

Publicada en Patentscope_Domótica, 25/08/2022.

Solicitante: QINGDAO HAIER AIR CONDITIONER GENERAL CORP., LTD. [CN]
A wall-mounted indoor air conditioning unit, comprising a housing and a flow guide member. The housing is provided with an air supply duct; and the flow guide member is disposed at an outlet of the air supply duct, can translate back and forth between a working state of extending forwards of the air supply duct and a closed state of retracting backwards, and is provided with an upper air guide wall surface and a lower air guide wall surface.

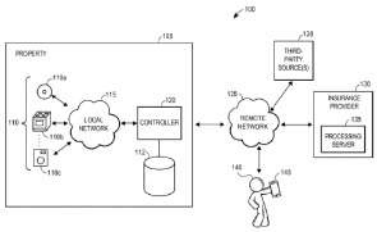


ver más...

Systems and methods for improved assisted or independent living environments

Publicada en Patentscope_Domótica, 23/08/2022.

Solicitante: State Farm Mutual Automobile Insurance Company
The present embodiments relate to detecting instances of individuals being in peril within an independent or assisted living environment. According to certain aspects, with an individual's permission or affirmative consent, a hardware controller (such as a smart or interconnected home controller, or even a mobile device) may receive and analyze sensor data detected within the independent or assisted living environment to determine whether an individual may be in peril.



ver más...

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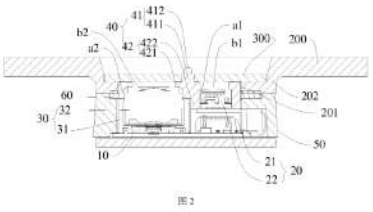
3D module and robot vacuum cleaner

Publicada en PATENTSCOPE Industria intelligente, 18/08/2022.

Solicitante: FILM GROUP CO., LTD. [CN]
A 3D module (100) comprises: a circuit board (10), a transmitting module (20), a receiving module (30), and a light insulation member (40). The transmitting module (20) and the receiving module (30) are both provided on the circuit board (10) and are electrically connected; the light insulation member (40) is provided with a first mounting space (a1) and a second mounting space (a2) which are arranged in parallel; one end of each of the transmitting module (20) and the receiving module (30) away from the circuit board (10) is located in the first mounting space (a1) and the second mounting space (a2) respectively



ver más...

Advanced cybersecurity threat hunting using behavioral and deep analytics

Publicada en PATENTSCOPE Industria intelligente, 18/08/2022.

Solicitante: QOMPLX, Inc.
A system for cyber threat hunting employing an advanced cyber decision platform comprising a time series data store, a directed computational graph module, an automated planning service module, and observation and state estimation module, wherein the state of a network is monitored and used to predict network resources that may be vulnerable to a future cyber threat

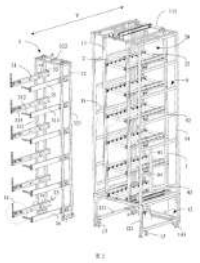
ver más...

Volver al índice

Logistics transfer device and warehouse logistics system

Publicada en PATENTSCOPE Industria intelligente, 18/08/2022.

Solicitante: HAI ROBOTICS CO., LTD. [CN]
A logistics transfer device (100) and a warehouse logistics system (200). The logistics transfer device (100) comprises a bracket (1), a mechanical arm assembly (31), and a storage unit (2). The storage unit (2) is detachably provided on the bracket (1). The mechanical arm assembly (31) can move with respect to the storage unit (2) to drive cargos to move. The storage unit (2) comprises a support frame (21) and a plurality of rolling conveyors (22). The plurality of rolling conveyors (22) are arranged side by side. The support frame (21) is connected to two ends of the rolling conveyor (22).



ver más...

Management system for unmanned mobile store

Publicada en Patentscope_Domótica, 18/08/2022.

Solicitante: TAISHO SKY BUILDING,INC. [JP]
To provide a management system for an unmanned mobile store that is capable of moving to a prescribed place without requiring staff and that makes it possible to actually check commercial items. [Solution] A management system for an unmanned mobile store, according to the present invention, is provided with: a store body 2; a management server 3 that manages the store body 2;

ver más...

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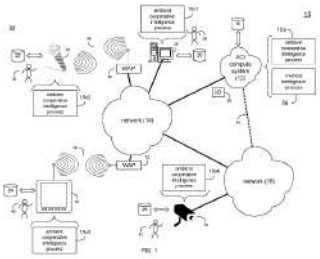
Medical intelligence system and method

Publicada en Patentes AI patentscope, 18/08/2022.

Solicitante: NUANCE COMMUNICATIONS, INC. [US]
A method, computer program product, and computing system for: monitoring a meeting between a patient and a medical entity during a medical encounter; gathering information during the medical encounter, thus generating gathered encounter information; generating medical encounter topical information via artificial intelligence, wherein the medical encounter topical information is based at least in part upon the gathered encounter information and is configured to provide guidance to the medical entity concerning one or more topics to be discussed during the medical encounter; and providing the medical encounter topical information to the medical entity.



ver más...

Narrative-based content discovery employing artifical intelligence

Publicada en Patentes AI patentscope, 18/08/2022.

Solicitante: RIVETAI, INC. [US]
Processor-based systems and/or methods of operation may generate queries and suggest legacy narrative content (e.g., video content, script content) for a narrative under development. An artificial neural network (ANN, e.g., autoencoder) is trained on pairs of video and text vectors to capture attributes or nuances beyond those typical of keyword searching.

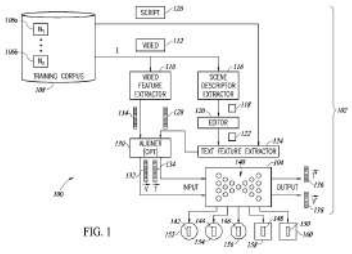


FIG. 1

ver más...

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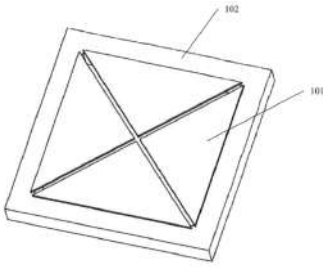
Piezoelectric Mems Sensor and Related Device

Publicada en PATENTSCOPE Industria intelligente, 18/08/2022.

Solicitante: Huawei Technologies Co., Ltd.
A piezoelectric MEMS sensor and a related device is disclosed, applied to scenarios such as a terminal, a smart acoustic system, a wireless Bluetooth headset, an active noise reduction headset, a notebook computer, and an automobile industry, including a substrate including a sound entry channel and at least one cantilever. The cantilever includes a first region and a second region that are connected to each other. The first region includes a first side face and a second side face, the first side face is a side face that is of the first region and that faces a target face, and the target face is a face that is of the cantilever and that is connected to the substrate.



ver más...

Registration and execution methods and apparatuses of timed smart contract in blockchain

Publicada en PATENTSCOPE Industria intelligente, 18/08/2022.

Solicitante: CURRENCY INSTITUTE, THE PEOPLE'S BANK OF CHINA [CN]
Registration and execution methods and apparatuses of a timed smart contract in a blockchain. The method comprises: receiving a registration request of a timed smart contract (S101); according to the registration request, registering the timed smart contract to an oracle machine contract pre-deployed on the blockchain (S102); and generating, for the timed smart contract, an interface for connecting the timed smart contract to the oracle machine contract, so that the oracle machine contract triggers, by means of the interface in a timing manner, execution of the timed smart contract (S103). The method achieves the management and execution of the timed smart contract by means of the blockchain.

ver más...

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Robotic process automation (RPA) -based data labelling

Publicada en Patentscope_Domótica, 18/08/2022.

Solicitante: BAIDU.COM TIMES TECHNOLOGY (BEIJING) CO., LTD. [CN]
One application of deep learning method and labelled data is for industrial production or work applications. For such applications implemented with machine learning applications, massive amounts of data are required to train, validate, and/or tune models for better fitting the requirements.

ver más...

Renewable energy based autonomous security system for home

Publicada en PATENTSCOPE Industria intelligente, 12/08/2022.

Solicitante: SYMBIOSIS INSTITUTE OF BUSINESS MANAGEMENT-PUNE SYMBIOSIS INTERNATIONAL (DEEMED UNIVERSITY)
In recent years there has been a rapid boom associated with various digital security and surveillance cameras created worldwide. this is due to the ever-increasing crime rate. remote monitoring machines have become popular, allowing people to monitor their homes in real time over the internet. video surveillance has revolutionized the world. state-of-the-art technology is the shift from analog video surveillance to an all-digital, networked video surveillance architecture that operates 24 hours a day.they also claim that industrial residential defenses are still inaccessible to much of the city and damage the family's reputation.

ver más...

Volver al índice

Digital currency transaction method and system based on smart contract

Publicada en PATENTSCOPE Industria intelligente, 11/08/2022.

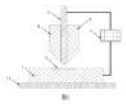
Solicitante: TENDYRON CORPORATION [CN]
A digital currency transaction method and system based on a smart contract. The method comprises: a payer wallet acquiring a digital currency to be paid, and acquiring smart contract data (S1); the payer wallet sending transaction data to a payee wallet (S2); the payee wallet receiving the transaction data, and acquiring verification data generated by a signer (S3); the payee wallet sending a transaction record to a server (S4), wherein the transaction record comprises: said digital currency, the smart contract data, a first smart contract signature, a second smart contract signature and the verification data

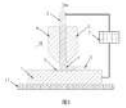
ver más...

Three-dimensional printing method

Publicada en PATENTSCOPE Industria intelligente, 11/08/2022.

Solicitante: Nanjing Taitao Intelligent System Co., Ltd.
Disclosed is a three-dimensional printing method for instantly generating a needed molten raw material by way of a resistance heating function during three-dimensional printing. The method can realize three-dimensional printing of material having a high melting point and falls within the technical field of additive manufacturing. The method is characterized by applying a current through a solid raw material and a body to be printed; partially or fully heating the solid raw material located between a guiding device and said body to be printed into a molten state by way of resistance heating; and generating a molten raw material in a space located between the guiding device and the body to be printed.





ver más...

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Artificial intelligence-based method and system for predicting demand at store

Publicada en Patentes AI patentscope, 04/08/2022.

Solicitante: TABLEMANAGER INC. [KR]
An operation method of a system for predicting demand at a store may comprise the steps of: obtaining, from a database, existing sales data of a store including reservation history information and visit history information of customers of the store by date; preprocessing the existing sales data of the store; generating multiple store demand prediction models by using multiple preconfigured algorithms obtained by learning the preprocessed existing sales data of the store; determining a store demand prediction model on the basis of an evaluation result of each of the multiple store demand prediction models; and predicting demand at the store by using the determined store demand prediction model.

ver más...

Eye movement device-based intelligent power flow analysis method and apparatus

Publicada en PATENTSCOPE Industria intelligente, 04/08/2022.

Solicitante: CHINA ELECTRIC POWER RESEARCH INSTITUTE [CN]
Embodiments of the present disclosure disclose an eye movement device-based intelligent power flow analysis method and apparatus. The method comprises: according to a pre-established digital model of at least one element of a power grid and model parameters of each element, determining power grid power flow calculation data; determining power flow calculation result data according to the power grid power flow calculation data; drawing all or a part of power grid elements on an electronic map according to actual requirements and geographic positions, reading power flow calculation result data of each power grid element, and displaying the power flow calculation result data of each power grid element on a corresponding power grid element

ver más...

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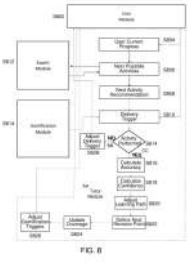
Gamified real-time artificial intelligence based individualized adaptive learning

Publicada en Patentes AI patentscope, 04/08/2022.

Solicitante: RIGHT-HAND CYBER SECURITY PTE. LTD. [SG]
The present disclosure describes methods and systems to provide gamified real-time AI based adaptive learning. The system may receive a set of nodes and directed edges connecting the nodes representing a general knowledge graph; receive user attribute information; organize users into gamification driver type groups and associate at least one gamification trigger to each gamification driver type



ver más...

Human-machine interaction method and apparatus combined with rpa and ai, and storage medium and electronic device

Publicada en PATENTSCOPE Industria intelligente, 04/08/2022.

Solicitante: BEIJING LAIYE NETWORK TECHNOLOGY CO., LTD. [CN]
A human-machine interaction method and apparatus combined with robotic process automation (RPA) and artificial intelligence (AI), and a storage medium and an electronic device, which are applied to natural language processing (NLP). The method comprises: acquiring service-related data and workflow data of an enterprise by using an RPA method (S101); processing the service-related data by using an AI platform, so as to obtain structured target service data corresponding to the service-related data (S102); according to the target service data and the workflow data and in combination with a pre-configured rule engine, generating a response processing logic corresponding to the enterprise (S103)

ver más...

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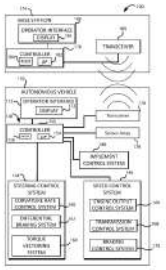
Localization System for Autonomous Vehicles Using Sparse Radar Data

Publicada en PATENTSCOPE Industria intelligente, 04/08/2022.

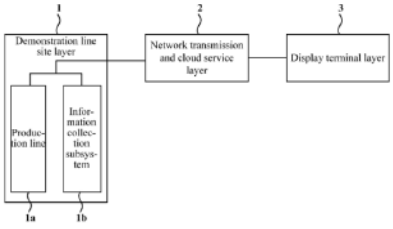


Solicitante: Autonomous Solutions, Inc.
An autonomous vehicle is disclosed that includes a velocity sensor; a radar system; a digital storage medium; and a controller in communication with the digital storage medium, radar system, and the velocity sensor. The controller, for example, may retrieve map data from the digital storage medium; receive current radar data from the radar system; receive autonomous vehicle velocity data from the velocity sensor; identify radar data points in the current radar data that represent objects in motion; remove radar data points from the current radar data that represent objects in motion; and/or match the radar data with the map data to return location data.

ver más...

Intelligent manufacturing system

Publicada en PATENTSCOPE Industria intelligente, 28/07/2022.



Solicitante: Qingdao Haier Institute of Industrial Intelligence Co., Ltd.
Provided is an intelligent manufacturing system. The intelligent manufacturing system includes a demonstration line site layer, a network transmission and cloud service layer and a display terminal layer. The demonstration line site layer includes a production line and an information collection subsystem. The production line is configured to produce a product, and the information collection subsystem is configured to collect production information of the production line.

ver más...

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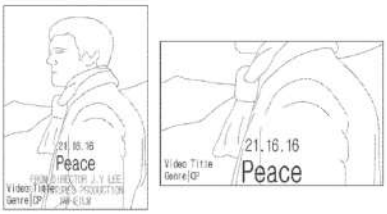
Method and system for displaying a video poster based on artificial intelligence

Publicada en Patentes AI patentscope, 28/07/2022.



A method for displaying a video poster based on artificial intelligence is provided. The method includes obtaining a target video and at least one poster according to a user input, calculating a matching degree of an image description text of the at least one poster and a description text keyword of the target video, and sorting the at least one poster according to the matching degree in an order from high to low, to obtain a sorted poster sequence; performing element separation on one of the at least one poster with a highest matching degree in the poster sequence to obtain a main body element and a background element; and processing the main body element, the background element and title information of the target video according to requirements of a target scene to synthesize a new poster.

ver más...

Artificial-intelligence-based parking space navigation method and apparatus, and terminal device and medium

Publicada en Patentes AI patentscope, 07/07/2022.

Solicitante: PING AN TECHNOLOGY (SHENZHEN) CO., LTD. [CN]
The present invention is applied to the technical field of big data. Provided are an artificial-intelligence-based parking space navigation method and apparatus, and a terminal device and a medium. The method comprises: determining a target location input by a vehicle owner, and determining, according to the target location, a target parking lot including a plurality of free parking spaces (S101)

ver más...

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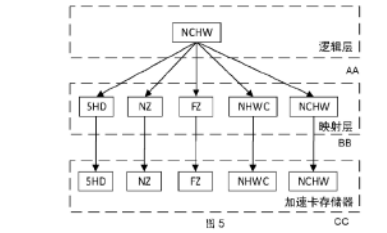
Data processing method and apparatus in artificial intelligence system

Publicada en Patentes AI patentscope, 07/07/2022.

Solicitante: HUAWEI TECHNOLOGIES CO., LTD. [CN]
For the problem that the cost for a current artificial intelligence system to match a new data format is high, an artificial intelligence system and a corresponding data processing method and apparatus are provided, so as to implement format conversion, according to an artificial intelligence task from a user, on input data corresponding to the artificial intelligence task.



当 5

AA Logical layer BB Mapping layer CC Accelerator card memory

ver más...

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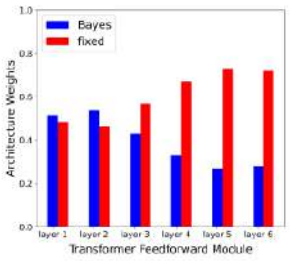
PUBLICACIONES CIENTÍFICAS

Bayesian Neural Network Language Modeling for Speech Recognition

Publicada en https://arxiv.org, 28/08/2022.

State-of-the-art neural network language models (NNLMs) represented by long short term memory recurrent neural networks (LSTM-RNNs) and Transformers are becoming highly complex. They are prone to overfitting and poor generalization when given limited training data. To this end, an overarching full Bayesian learning framework encompassing three methods is proposed in this paper to account for the underlying uncertainty in LSTM-RNN and Transformer LMs.



ver más...

FashionVQA: A Domain-Specific Visual Question Answering System

Publicada en https://arxiv.org/, 24/08/2022.

Humans apprehend the world through various sensory modalities, yet language is their predominant communication channel. Machine learning systems need to draw on the same multimodal richness to have informed discourses with humans in natural language; this is particularly true for systems specialized in visually-dense information, such as dialogue, recommendation, and search engines for clothing.

Figure 2: Pipeline of the fashion VQA task.

ver más...

Volver al índice

Improving Natural-Language-based Audio Retrieval with Transfer Learning and Audio & Text Augmentations

Publicada en https://arxiv.org, 24/08/2022.

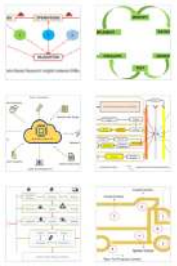
Tiny machine learning (TinyML) in IoT systems exploits MCUs as edge devices for data processing. However, traditional TinyML methods can only perform inference, limited to static environments or classes. Real case scenarios usually work in dynamic environments, thus drifting the context where the original neural model is no more suitable.

ver más...

Application of blockchain and smart contracts in autonomous vehicle supply chains: An experimental design

Publicada en , 23/08/2022.

With the rise of digital sustainable business models in the Autonomous Vehicles (AV) industry, the traditional automakers are undergoing a major restructuring in their key performance areas and associated supply chains processes. Focusing on an innovative AV design (AD) concept, this paper investigates how Artificial Intelligence (AI) and Blockchain-based Smart Contracts can enhance sustainable supply chain operations.



ver más...

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A Trust Framework for Government Use of Artificial Intelligence and Automated Decision Making

Publicada en https://arxiv.org, 22/08/2022.

This paper identifies the current challenges of the mechanisation, digitisation and automation of public sector systems and processes, and proposes a modern and practical framework to ensure and assure ethical and high veracity Artificial Intelligence (AI) or Automated Decision Making (ADM) systems in public institutions.

ver más...

Digital twin-driven deep reinforcement learning for adaptive task allocation in robotic construction

Publicada en https://www.sciencedirect.com, 12/08/2022.

In order to accomplish diverse tasks successfully in a dynamic (i.e., changing over time) construction environment, robots should be able to prioritize assigned tasks to optimize their performance in a given state. Recently, a deep reinforcement learning (DRL) approach has shown potential for addressing such adaptive task allocation.

ver más...

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Digital Twins: Potentials, Ethical Issues, and Limitations

Publicada en https://arxiv.org, 20/07/2022.

After Big Data and Artificial Intelligence (AI), the subject of Digital Twins has emerged as another promising technology, advocated, built, and sold by various IT companies. The approach aims to produce highly realistic models of real systems.

ver más...

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