



SmartLivingPlat

Plataforma Tecnológica de la Domótica
y las Ciudades Inteligentes



Boletín de Vigilancia Tecnológica

SEPTIEMBRE - OCTUBRE 2024

SMART BUILDINGS
SMART CITIES
INDUSTRIA 4.0

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NOTICIAS

Top 10: Predictions for 2026

Publicada en manufacturingdigital.com, 30/10/2024

At Manufacturing Digital, we don't have a crystal ball, but we do have a wealth of global stories and observations under our belt. With this in mind, we've compiled our top 10 manufacturing predictions for 2026 to help you stay ahead.

[Ver más..](#)



DALI, TALQ and Zhaga Announce Collaboration to Unify Data Streams for Smart Street Lighting Solutions

Publicada en topbots.com, 23/10/2024

The DALI Alliance (DALI), the TALQ Consortium (TALQ) and the Zhaga Consortium (Zhaga) - each focused on defining international lighting standards to ease investment decisions for public and private entities - announce the signing of a liaison agreement to collaborate on unifying data streams for smart street lighting systems. The collaboration aims to provide a better choice of solutions with interoperable components and enhance communication

[Ver más..](#)

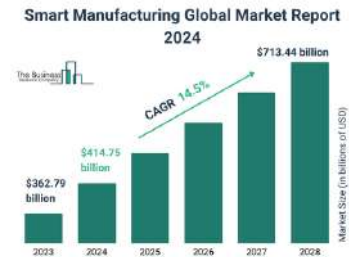


Smart Manufacturing Global Market report

Publicada en thebusinessresearchcompany.com, 15/10/2024

Smart Manufacturing Global Market report from The Business Research Company provides the strategists, marketers and senior management with the critical information they need to assess the global smart manufacturing market.

[Ver más..](#)



10 Key Insights Every Executive Should Know About GenAI

Publicada en blog.dataiku.com, 14/10/2024

Dataiku and Databricks recently surveyed 400 senior AI professionals to see how Generative AI (GenAI) impacts businesses in various industries. These professionals included directors, VPs, and C-suite leaders who make decisions about AI and technology in their companies. The results are clear: GenAI is no longer just a buzzword. It improves customer engagement, streamlines operations, and shapes business strategy.

[Ver más..](#)



Smart Design for Smart Manufacturing: Five Ways Manufacturing Has Evolved

Publicada en gensler.com, 8/10/2024

As with virtually every industry, emerging technologies are making their mark in manufacturing. We are seeing the evolution of this sector in real time, as advances in robotics, automation, and the Internet of Things (IoT) enable more efficient, cost-saving, and resilient outcomes.

[Ver más..](#)



Commission opens access to EU supercomputers to speed up AI development

Publicada en ec.europa.eu, 16/11/2024

Today the Commission and the European High-Performance Computing Joint Undertaking (EuroHPC JU) committed to open and widen access to the EU's world-class supercomputing resources for European artificial intelligence (AI) start-ups, SMEs and the broader AI community as part of the EU AI Start-Up Initiative.

[Ver más..](#)



EMPRESAS Y MERCADOS

On-site document management made easy with Bricsys® and LB Aproplan

Publicada en bricsys.com, 7/11/2024

The construction industry faces several challenges regarding document management. To deliver projects on time and within budget, project managers must easily maintain document version control, manage user access to documents, and streamline approval processes. Poor document management inevitably leads to complications, delays, efficiency loss and increased costs down the line.

[Ver más..](#)



Introducing computer use, a new Claude 3.5 Sonnet, and Claude 3.5 Haiku

Publicada en anthropic.com, 4/11/2024

Today, we're announcing an upgraded Claude 3.5 Sonnet, and a new model, Claude 3.5 Haiku. The upgraded Claude 3.5 Sonnet delivers across-the-board improvements over its predecessor, with particularly significant gains in coding—an area where it already led the field.

[Ver más..](#)



Introducing ChatGPT search

Publicada en openai.com, 31/10/2024

ChatGPT can now search the web in a much better way than before. You can get fast, timely answers with links to relevant web sources, which you would have previously needed to go to a search engine for. This blends the benefits of a natural language interface with the value of up-to-date sports scores, news, stock quotes, and more.

[Ver más..](#)



How Hisense Leads Global Innovation in Manufacturing

Publicada en manufacturingdigital.com, 28/10/2024

Over the past five years, Hisense has strengthened its manufacturing infrastructure and technological foundation, positioning itself as a global powerhouse. Key acquisitions, such as that of the SanDen Corporation, have played a crucial role in boosting production capabilities.

[Ver más..](#)



Samp is transforming industrial operations with AI

Publicada en samp.ai, 21/10/2024

Promus Ventures leads Samp's \$6.7M Series A round to accelerate the deployment of its Shared Reality AI platform. Promus Ventures is privileged to lead the \$6.7M Series A round of Samp, a Paris-based startup using cutting-edge AI to redefine how industrial facilities are managed and maintained.

[Ver más..](#)



GiDi, la «nieta virtual» de Balidea, supera con éxito el primer piloto con usuarios reales

Publicada en balidea.com, 16/10/2024

GiDi, proyecto de investigación desarrollado por Balidea en colaboración con IDMind, la Universidad de Vigo y la Fundación IDIS. alcanzó un importante hito la semana pasada, con el desarrollo del proceso de validación y evaluación con personas usuarias reales.

[Ver más..](#)



DILAX Wins Tender to Upgrade the Automatic Passenger Counting (APC) System for Stuttgart's Public Transit

Publicada en dilax.com, 15/10/2024

DILAX Intelcom GmbH, a leading provider of software solutions for passenger counting and data analysis, has won the tender from Stuttgarter Straßenbahnen AG (SSB) to upgrade its Automatic Passenger Counting (APC) System.

[Ver más..](#)



Coovally elige Barcelona como sede central para su expansión internacional

Publicada en 22network.net, 14/10/2024

La compañía china especializada en inteligencia artificial ha decidido establecer su sede central en la capital catalana como parte de su estrategia de expansión en Europa y América Latina. La empresa, que ha contado con el asesoramiento de Cushman & Wakefield y el apoyo de la Agencia para la Competitividad de la Empresa de Cataluña, ocupará el edificio Diagonal 210, propiedad de IBA Capital, situado junto al centro comercial Glòries.

[Ver más..](#)



This three-person robotics startup is working with designer Yves Béhar to bring humanoids home

Publicada en techcrunch.com, 13/10/2024

It's hard to know where to focus when speaking to Christoph Kohstall. The contents of his packed Palo Alto garage compete for attention. To his immediate right stands a tower of electrical components, dotted with flashing lights. To his left is a workbench and the tops of machining tools.

[Ver más..](#)



Aktiia trained AI on 11 billion data points of blood pressure, and now a clinically certified app is coming

Publicada en techcrunch.com, 11/10/2024

As well as being a major cause of premature death worldwide, hypertension, also known as high blood pressure, is a major risk factor for stroke, coronary artery disease, and heart failure, and is a contributing factor to dementia. It also affects an estimated 1.3 billion people

[Ver más..](#)



Conoce a las cinco empresas especializadas en ciberseguridad que participarán en la segunda inmersión de Desafía Nueva York

Publicada en red.es, 9/10/2024

Cinco empresas españolas del sector de la ciberseguridad están listas para volar a la ciudad de los rascacielos del 28 de octubre al 9 de noviembre para participar en una nueva edición del Programa Desafía Nueva York.

[Ver más..](#)



Rival Holdings construirá viviendas en Estados Unidos con las microfábricas robóticas de AUAR

Publicada en focuspedra.com, 8/10/2024

La startup de tecnología británica de la construcción Automated Architecture (AUAR) enviará dos de sus microfábricas robóticas a los EE. UU., en el primer paso de la empresa para expandir sus operaciones a América del Norte.

[Ver más..](#)



Fleet Safety Technology: AD Technology on Fleet Dashcams

Publicada en peregrine.ai, 2/10/2024

In today's dynamic world, fleet safety technology is a critical concern for fleet managers and drivers alike. Our innovative software solution elevates outward facing fleet dashcams beyond just recording devices, transforming them into intelligent systems capable of understanding and interpreting the road.

[Ver más..](#)



Qwen2.5: A Party of Foundation Models!

Publicada en qwenlm.github.io, 19/09/2024

In the past three months since Qwen2's release, numerous developers have built new models on the Qwen2 language models, providing us with valuable feedback. During this period, we have focused on creating smarter and more knowledgeable language models. Today, we are excited to introduce the latest addition to the Qwen family

[Ver más..](#)



Metal 3D printing perfected in one welding characteristic

Publicada en fronius.com, 10/09/2024

CMT Additive Pro from Fronius is a revolutionary, 3D-optimized welding process with impressive features, including an especially even layer structure, as well as high quality and stability. Using this process for additive manufacturing, components, spare parts, and even prototypes can be manufactured in a way that's flexible, resource-efficient, and profitable.

[Ver más..](#)

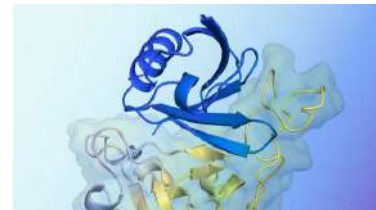


AlphaProteo generates novel proteins for biology and health research

Publicada en deepmind.google, 5/09/2024

New AI system designs proteins that successfully bind to target molecules, with potential for advancing drug design, disease understanding and more. Every biological process in the body, from cell growth to immune responses, depends on interactions between molecules called proteins.

[Ver más..](#)



PATENTES

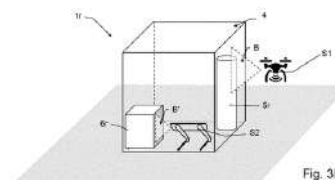
Virtual 3D-Scanning Environment

Publicada en Espacenet, 6/11/2024

Solicitante: HEXAGON TECHNOLOGY CT GMBH [CH]

The invention relates to a scanning method for 3D-laser scanning using a virtual reality scene (1r) for a remote operator wherein based on a virtual position of the user, a scan region (4) is automatically defined. The scan region is then scanned by a scanner (S1, S2), for example a robotic unmanned ground or aerial vehicle, UGV or UAV, scanner

[Ver más..](#)



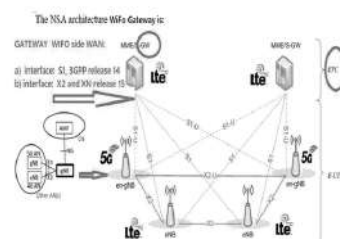
Distributed Intermediate Control Node (Gateway) With IoT And Ai Capability, Integrated In A Multiplay Telecommunication System And Applied To Small Cells In 4g And 5g Mobile Networks

Publicada en Espacenet, 6/11/2024

Solicitante: WIFO NETWORKS S L [ES]

A distributed IoT and AI enabled intermediate control node (Gateway) integrated in a multiplay telecommunication system applied to small cell in 4 and 5G mobile networks, which this patent proposes, manages and coordinates in an intermediate equipment located between the telephone operator(s)

[Ver más..](#)



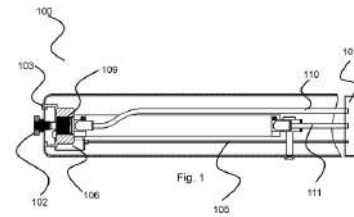
Device For Delivering Bone Cement By An Op-Robot

Publicada en Patentscope, 6/11/2024

Solicitante: HERAEUS MEDICAL GMBH [DE]

Dispositivo (100) para la dispensación mecánica de cemento óseo, que comprende una unidad de conexión (101) que está preparada para conectarse a un robot quirúrgico, una unidad de compresión (102) que está preparada para dispensar cemento óseo

[Ver más..](#)



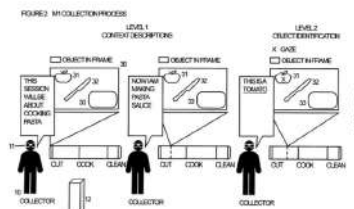
A Computer-Implemented Method Of Generating At Least One Dataset Associated With Objects Of At Least One Image Of A Real Environment For Annotating At Least One Image Frame For Training A Machine Learning Model

Publicada en Espacenet, 6/11/2024

Solicitante: RAMBLR GMBH [DE]

The invention relates to computer-implemented methods of generating at least one dataset associated with one or more objects of at least one image of a scene of a real environment, in particular egocentric video data. Such generated at least one dataset is configured for input to a computer-implemented process for annotating at least one image frame of a scene of a real environment

[Ver más..](#)



System For Controlling A Smart Home And Method For Controlling A Smart Home

Publicada en Espacenet, 6/11/2024

Solicitante: VEMMIO SP Z O O [PL]

A system (1) for controlling a smart home, comprising at least one base station (11) provided with a user identification system (116), at least one satellite station (12), at least one environmental sensor (15), at least one actuator (16), also comprising at least one preference identification module

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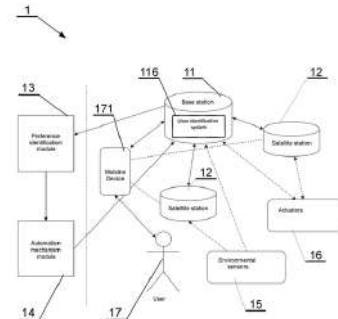


Fig. 1

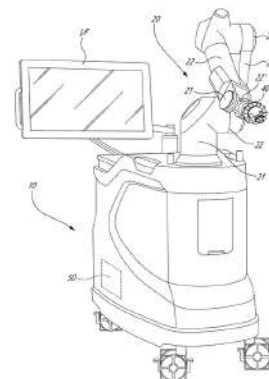
Electrical Interface For Surgical Robot Arm

Publicada en Patentscope, 31/10/2024

Solicitante: ORTHOSOFT ULC [CA]

An interface for a robotic arm comprising: a body having a first axial face adapted to be connected to a distal face of a link of a robotic arm, a second axial face adapted to be connected to a proximal face of an end effector, the second axial face having a geometry differing from a geometry of the proximal face of the end effector so as to define a peripheral band in the second axial face

[Ver más..](#)



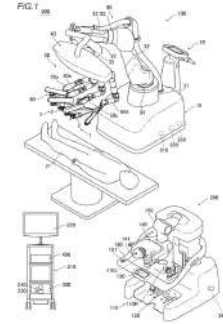
Robotic Surgical System, Operation Apparatus And Robotic-Surgical-System Control Method

Publicada en Espacenet, 31/10/2024

Solicitante: KAWASAKI HEAVY IND LTD [JP]; MEDICAROID CORP [JP]

A robotic surgical system according to this disclosure includes a controller configured to control a driver(s) to apply a force in a direction opposite to a direction of operation of an operation unit in a three-axis Cartesian coordinate system having three axes orthogonal to each other.

[Ver más..](#)



Glass Walls and Doors Detection and Distance Measuring for Robots and Method of Controlling the Same

Publicada en Espacenet, 31/10/2024

Solicitante: PROX SG PTE LTD [SG]

A method for detecting glass wall with reflective surface for an autonomous system. The method comprises deploying at least one IR imaging device and at least one IR emitter on the autonomous system, wherein the IR imaging device comprises a field-of-view (FOV); emitting, by an IR thermal emitter,

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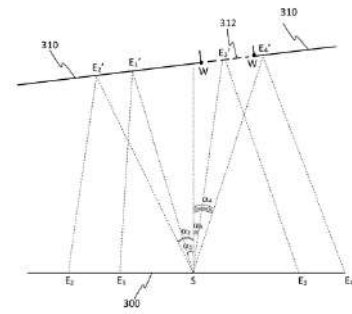


FIG. 3



FIG. 4A



FIG. 4B



FIG. 4C

Autonomous Navigation Of An Endoluminal Robot

Publicada en Patentscope, 31/10/2024

Solicitante: COVIDIEN LP [US]

A system and method for arriving at a biopsy or therapy site including receiving one or more images from optical sensor on a catheter, signaling a drive mechanism to articulate a distal portion of the catheter based on analysis of the one or more images, and determining that a distal portion of the catheter has reached a desired location.

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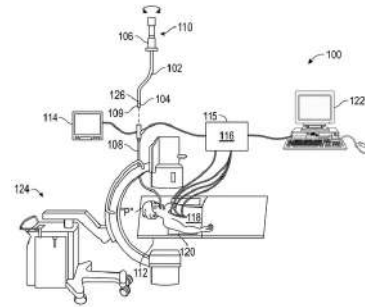


FIG. 1

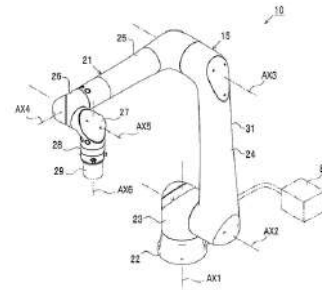
Robot And Wiring Structure For Robot

Publicada en Espacenet, 30/10/2024

Solicitante: DENSO WAVE INC [JP]

In a wiring structure for a robot (15), an FPC board (45) has a conductor layer (72) provided as a wiring pattern arranged between a base layer (71) and a cover layer (73). The FPC board (45) has a one end part at which the conductor layer (72) is exposed outside from the cover layer (73)

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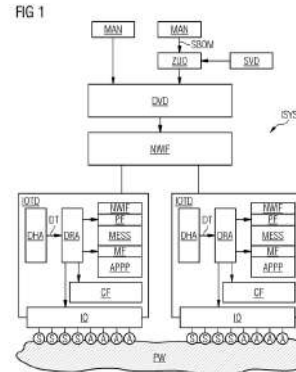
Method For Operating An lot Device With Applications, lot Device And Industrial Network

Publicada en Espacenet, 23/10/2024

Solicitante: SIEMENS AG [DE]; HOCHSCHULE FUER ANGEWANDTE WSS MUENCHEN [DE]

En el método para operar un dispositivo IoT (IOTD) con aplicaciones que procesan mensajes (MESS) según protocolos de aplicación (APPP), el dispositivo IoT recibe mensajes para los protocolos de aplicación, utilizando un estado de integridad del dispositivo (DT) del dispositivo y el Los mensajes para los protocolos de aplicación se filtran según el estado de salud del dispositivo y los mensajes

[Ver más..](#)



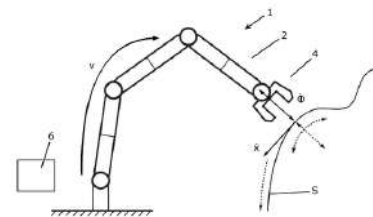
Method For Controlling A Robot Device

Publicada en Espacenet, 23/10/2024

Solicitante: DEUTSCH ZENTR LUFT & RAUMFAHRT [DE]

En un método para controlar un dispositivo robótico con un efector final, en el que el dispositivo robótico se controla mediante un dispositivo de control de robot, se proporciona que el dispositivo de control de robot controle el dispositivo robótico mediante un control de impedancia cartesiana

[Ver más..](#)



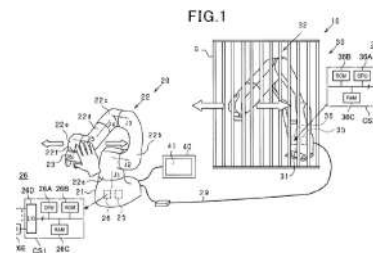
Master-Slave Robot System

Publicada en Espacenet, 16/10/2024

Solicitante: DENSO WAVE INC [JP]

In a master-slave robot system (10), the posture of a master robot (20) is changed by an external force applied by the operator, while the posture of a slave robot (30) is controlled to match that of the master robot. A controller (26, 36) controls the master robot (20) and the slave robot (30).

[Ver más..](#)



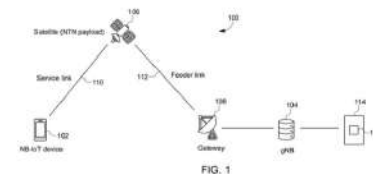
Methods for enhancing scheduling efficiency in HARQ-ACK disabled IoT NTN

Publicada en Espacenet, 10/10/2024

Solicitante: MAVENIR SYSTEMS INC [US]

A system and method is provided for increasing a peak data rate achieved in HARQ feedback-disabled User Equipment (UE) in a Narrow Band Internet of Things (NB-IoT) non-terrestrial network (NTN) system where NB-IoT devices are connected to the gNodeB (gNB)

[Ver más..](#)



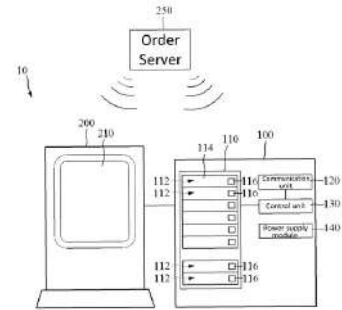
Smart locker

Publicada en Espacenet, 30/10/2024

Solicitante: SHOPEE IP SINGAPORE PRIVATE LTD [SG]

Provided is a smart locker, including a cabinet, a plurality of locker doors, and a plurality of shelf boards configured to vertically divide a storage space of the cabinet into one or more locker compartments. Each locker compartment corresponds to one or more locker doors of the plurality of locker doors.

[Ver más..](#)



Evaluation Of Ingredients For Toxicity With Machine Learning

Publicada en Espacenet, 24/10/2024

Solicitante: SENSORYGEN INC [US]

Systems and methods for evaluating the toxicity of a chemical or chemicals are provided, including evaluating the estimated success or failure in clinical trials and a comprehensive profile of human proteins and biochemical pathways implicated.

[Ver más..](#)

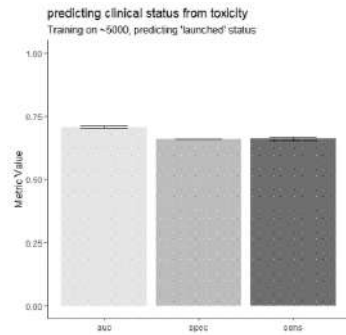


FIG. 1

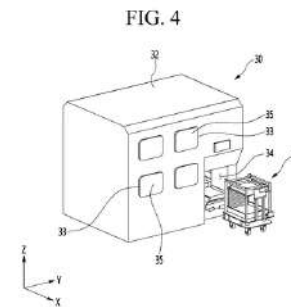
Robot system

Publicada a Patentscope, 24/10/2024

Titular: LG ELECTRONICS INC [KR]

A robot system includes a station body, a carrier located in the station body, a first robot having a lifter configured to lift the carrier relative to the station body, the first robot being configured to move in a first direction in the station body, and a second robot configured to move in the station body in a second direction different from the first direction

[Ver más..](#)



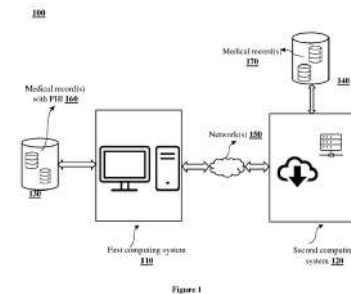
System And Method For Anonymizing Medical Records

Publicada en Espacenet, 23/10/2024

Solicitante: CLARITRICS INC D B A BUDDI AI [US]

The present disclosure describes a method, apparatus, and computer readable medium for anonymizing medical records using a combination of deep learning and smart templization. The method comprises performing tokenization on an input medical record comprising one or more sentences to generate tokenized data

[Ver más..](#)



System, Method And Computer Program For Generating An Immersive Driving Experience Of An Actual Vehicle In A Virtual Environment

Publicada en Espacenet, 23/10/2024

Solicitante: SEAT SA [ES]

The present invention relates to a system for generating an immersive driving experience of an actual vehicle (V) in a virtual environment, comprising:- virtual reality goggles (G);- positioning units (P1, P2) to detect the positions of the actual vehicle (V) and of the virtual reality goggles (G) with respect to the actual vehicle

[Ver más..](#)

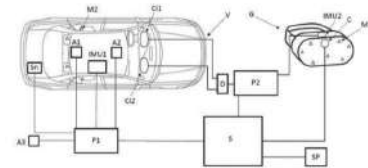


Fig. 1

Method For Managing A Home Automation Installation

Publicada en Patentscope, 16/10/2024

Solicitante: SOMFY ACTIVITES SA [FR]

Procédé de gestion d'une installation domotique (100) d'un bâtiment (1) comprenant une protection solaire (3) motorisée, une unité de gestion (102) d'une position prise par la protection solaire (3), et un dispositif de mesure (104) d'une température intérieure du bâtiment

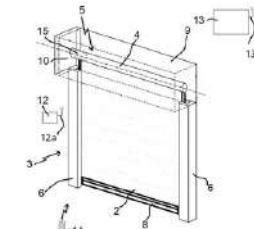


Fig. 4

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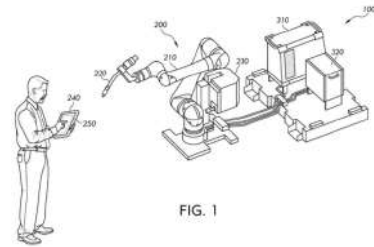
Collaborative Robot Welding System

Publicada en Espacenet, 3/10/2024

Solicitante: LINCOLN GLOBAL INC [US]

A welding system includes a collaborative robot, a robot controller, a welding torch having an end located at a tool center point (TCP), a welding power supply, and a teach pendant. The teach pendant includes a UI application configured for programming welding points and parameters.

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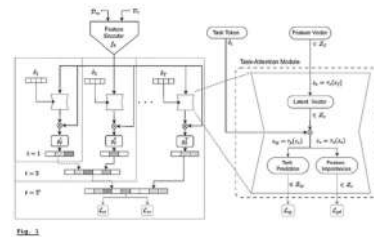
Computer Implemented Method For Continual Learning Of A Plurality Of Tasks

Publicada en Espacenet, 3/10/2024

Solicitante: NAVINFO EUROPE B V [NL]

A computer implemented method for continual learning of a plurality of tasks using a machine learning model comprising a deep neural network and a preferably compact shared task-attention module. Each task is associated with a mutually different learnable task-specific token including: rehearsing learned knowledge in the deep neural network

[Ver más..](#)



Navigation Of Elongated Robotically-Driven Devices

Publicada en Patentscope, 2/10/2024

Solicitante: KONINKLIJKE PHILIPS NV [NL]

The present invention relates to navigation of elongated robotically-driven devices. In order to improve the workflow and to provide further assistance in handling an interventional device by a robot arrangement, a navigation system (10) for assisting in robotic anatomical pathway navigation of an elongated robotically-driven device is provided

[Ver más..](#)

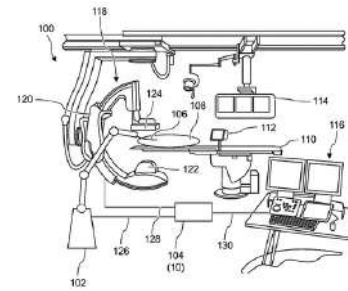


Fig. 2

Gaze-Driven Autofocus Camera For Mixed-Reality Passthrough

Publicada en Espacenet, 2/10/2024

Solicitante: META PLATFORMS TECH LLC [US]

The present disclosure relates to passthrough image generation for a mixed-reality experience. A device may determine, using an eye-tracking system of a head-mounted device, eye-tracking data associated with a user of the head-mounted device. The device may determine, based on the eye-tracking data, a desired scene depth for the user.

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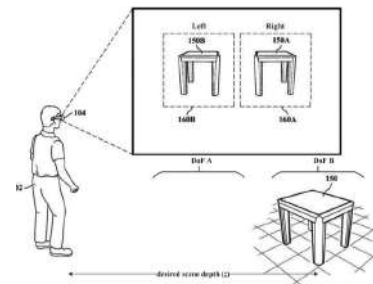


FIG. 1B

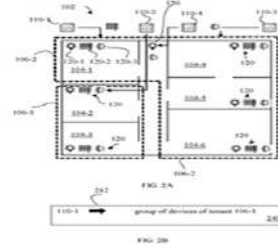
Method And System For Monitoring And/Or Controlling Devices Of A Smart Building

Publicada en Espacenet, 2/10/2024

Solicitante: ABB SCHWEIZ AG [CH]

A method for monitoring and/or controlling devices of a smart building, the method comprising:- generating a plurality of device groups, wherein each device group includes one or more devices of the smart building and is defined to include all devices of the smart building

[Ver más..](#)



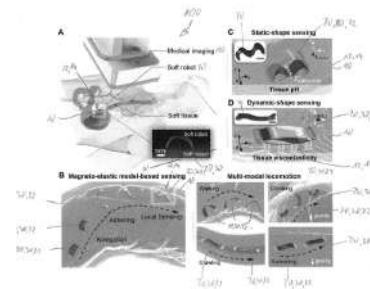
Method, Robot, And System For Probing One Or More Properties Of Material

Publicada en Espacenet, 2/10/2024

Solicitante: MAX PLANCK GESELLSCHAFT [DE]

The invention relates to a method for probing one or more properties of a material (10) at a probing spot (14) at the surface (12) of the material (10) by an untethered robot (20), the robot (20) comprising a shape changeable member (30) actuatable by temporally and/or spatially variable magnetic fields.

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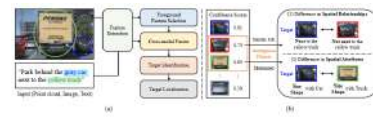
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LidaRefer: Outdoor 3D Visual Grounding for Autonomous Driving with Transformers

Publicada en arxiv.org, 7/11/2024

3D visual grounding (VG) aims to locate relevant objects or regions within 3D scenes based on natural language descriptions. Although recent methods for indoor 3D VG have successfully transformer-based architectures to capture global contextual information and enable fine-grained cross-modal fusion, they are unsuitable for outdoor environments due to differences in the distribution of point clouds between indoor and outdoor settings.

[Ver más..](#)



Large Intelligent Surfaces with Low-End Receivers: From Scaling to Antenna and Panel Selection

Publicada en arxiv.org, 7/11/2024

We analyze the performance of large intelligent surface (LIS) with hardware distortion at its RX-chains. In particular, we consider the memory-less polynomial model for non-ideal hardware and derive analytical expressions for the signal to noise plus distortion ratio after applying maximum ratio combining (MRC) at the LIS.

[Ver más..](#)

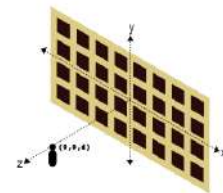


Fig. 1: Array and UE configuration with coordinate system.

Demo: Paving the Way for Smart Manufacturing with 5G/TSN Convergence and Augmented Reality

Publicada en nature.com, 7/11/2024

The fifth-generation (5G) mobile/cellular and time-sensitive networking (TSN) technologies are widely recognized as the key to shaping smart manufacturing for Industry 4.0 and beyond. Converged operation of the two offers end-to-end real-time and deterministic connectivity over hybrid wired and wireless segments.

[Ver más..](#)



Fig. 1. Demonstration setup for AR-aided remote assistance use case over a hybrid 5G and TSN system.

AI Horizon Scanning – White Paper p3395, IEEE-SA. Part III: Technology Watch: a selection of key developments, emerging technologies, and industry trends in Artificial Intelligence

Publicada en arxiv.org, 5/11/2024

Generative Artificial Intelligence (AI) technologies are in a phase of unprecedented rapid development following the landmark release of Chat-GPT, which brought the phenomenon to wide public attention.

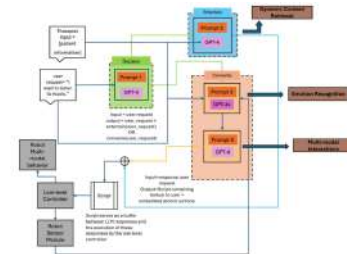
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The Future of Intelligent Healthcare: A Systematic Analysis and Discussion on the Integration and Impact of Robots Using Large Language Models for Healthcare

Publicada en arxiv.org, 5/11/2024

The potential use of large language models (LLMs) in healthcare robotics can help address the significant demand put on healthcare systems around the world with respect to an aging demographic and a shortage of healthcare professionals.

[Ver más..](#)



Towards Interoperability Testing of Smart Energy Systems – An Overview and Discussion of Possibilities

Publicada en pnas.org, 5/11/2024

Interoperability is the key to implementing a wide range of energy systems applications. It involves the seamless cooperation of different methods and components. With smart energy systems, interoperability faces challenges due to integrating different approaches and technologies.

[Ver más..](#)

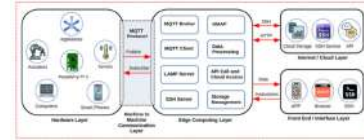
Challenges	Requirements
<i>Network of EV Charging Stations</i>	
<ul style="list-style-type: none">Fragmentation of networksComplex user experienceRoaming problems	<ul style="list-style-type: none">Standardised protocols, data models, and interface specificationsCommon principles for data sharingCompatibilitySeamless access

Internet of Things-based Home Automation with Network Mapper and MQTT Protocol

Publicada en sciencedirect.com, 5/11/2024

The increasing ability of internet-connected daily life electronic gadgets has propelled smart homes into a global trend. The Internet of Things (IoT) enables ambient devices to communicate and interact seamlessly through various sensors. Emerging technical concepts like Web3 and Industry 5.0 require decentralised and intelligent systems near the network's edge.

[Ver más..](#)

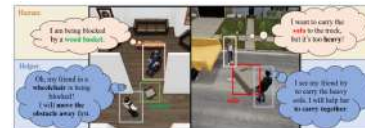


Constrained Human-AI Cooperation: An Inclusive Embodied Social Intelligence Challenge

Publicada en arxiv.org, 4/11/2024

We introduce Constrained Human-AI Cooperation (CHAIC), an inclusive embodied social intelligence challenge designed to test social perception and cooperation in embodied agents. In CHAIC, the goal is for an embodied agent equipped with egocentric observations to assist a human who may be operating under physical constraints – e.g., unable to reach high places or confined to a wheelchair.

[Ver más..](#)



The Enhancement of Software Delivery Performance through Enterprise DevSecOps and Generative Artificial Intelligence in Chinese Technology Firms

Publicada en arxiv.org, 4/11/2024

This study investigates the impact of integrating DevSecOps and Generative Artificial Intelligence (GAI) on software delivery performance within technology firms. Utilizing a qualitative research methodology, the research involved semi-structured interviews with industry practitioners and analysis of case studies from organizations that have successfully implemented these methodologies.

[Ver más..](#)



Adaptive multi-task ensemble framework for smart home automation

Publicada en sciencedirect.com, 1/11/2024

Smart home technology has evolved rapidly with an emphasis on indoor environmental control. It aims to automate the control of the indoor environment through sensors, regulators, and other technologies in order to improve comfort, energy saving, emission reduction, safety, and intelligence.

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The evolution of volumetric video: A survey of smart transcoding and compression approaches

Publicada en onlinelibrary.wiley.com, 4/11/2024

Volumetric video, the capture and display of three-dimensional (3D) imagery, has emerged as a revolutionary technology poised to transform the media landscape, enabling immersive experiences that transcend the limitations of traditional 2D video.

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Large Language Models for More Efficient Reporting of Hospital Quality Measures

Publicada en ai.nejm.org, 21/10/2024

Hospital quality measures are a vital component of a learning health system, yet they can be costly to report, statistically underpowered, and inconsistent due to poor interrater reliability. Large language models (LLMs) have recently demonstrated impressive performance on health care–related tasks and offer a promising way to provide accurate abstraction of complete charts at scale.

[Ver más..](#)



Augmented Intelligence in Smart Intersections: Local Digital Twins-Assisted Hybrid Autonomous Driving

Publicada en arxiv.org, 18/10/2024

Vehicle-road collaboration is a promising approach for enhancing the safety and efficiency of autonomous driving by extending the intelligence of onboard systems to smart roadside infrastructures. The introduction of digital twins (DTs), particularly local DTs (LDTs) at the edge, in smart mobility presents a new embodiment of augmented intelligence, which could enhance information exchange and extract human driving expertise to improve onboard intelligence.

[Ver más..](#)



Fig. 1. LDT-based hybrid autonomous driving system architecture.

ASTM :Autonomous Smart Traffic Management System Using Artificial Intelligence CNN and LSTM

Publicada en arxiv.org, 14/10/2024

In the modern world, the development of Artificial Intelligence (AI) has contributed to improvements in various areas, including automation, computer vision, fraud detection, and more. AI can be leveraged to enhance the efficiency of Autonomous Smart Traffic Management (ASTM) systems and reduce traffic congestion rates.

[Ver más..](#)



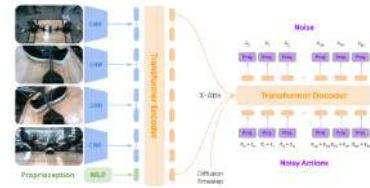
Fig. 3. Architecture of Smart Traffic Management using Artificial Intelligence

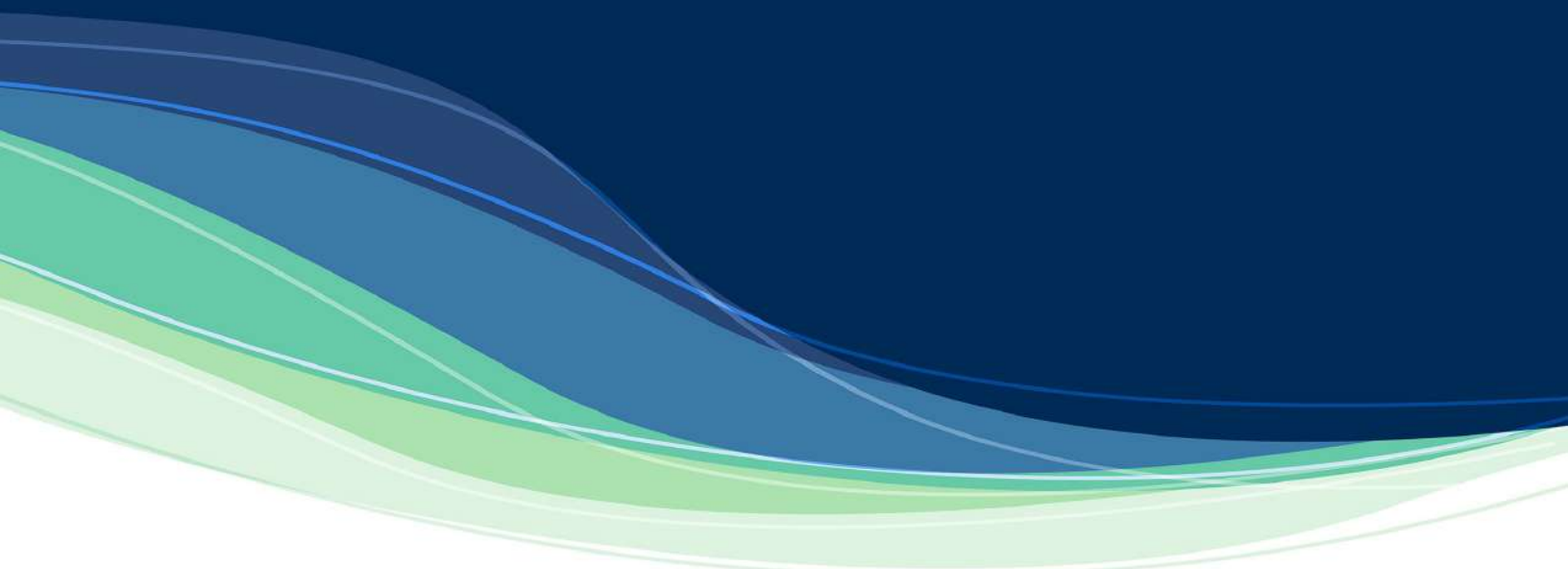
ALOHA Unleashed: A Simple Recipe for Robot Dexterity

Publicada en aloha-unleashed.github.io el 12/09/2024

Recent work has shown promising results for learning end-to-end robot policies using imitation learning. In this work we address the question of how far can we push imitation learning for challenging dexterous manipulation tasks. We show that a simple recipe of large scale data collection on the ALOHA 2 platform

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