

INTERESTING PUBLICATIONS ON EDGE COMPUTING

Edge computing is driven by an exponential growth of internet of things (IoT) and faster networking technologies, such as 5G wireless. The technology aims at bringing computing close to the data source to reduce the bandwidth use and latency. Here, we present snapshots from interesting 2020 publications relating to this concept.

Publication No

- WO2020188895

Title

- Edge Computing Server, Control Method, and Non-Transitory Computer-Readable Medium

Summary

- Present invention relates, an acquisition unit in an edge server periodically acquires the position of each of communication devices. A control unit specifies an accident prediction .

Publication No

- US20200296054

Title

- Method And System For Providing Network Resource Sharing In Multi-Access Edge Computing (MEC) Network

Summary

- The present invention discloses method and a resource managing system for providing network resource sharing in Multi-Access Edge Computing (MEC) network. The method includes receiving a network service request from an application.

Publication No

- US20200296643

Title

- Systems and Methods for Assignment of Multi-Access Edge Computing Resources Based on Network Performance Indicators

Summary

- A wireless communication device (WCD) may receive resource utilization values indicating an amount of available resources of server devices that are capable of sharing resources to support a session of an application. The WCD may generate performance scores for base station-server device. The WCD may select the target base station and the target server device based. The WCD may allow resources of the target server device to support the session of the application.

Publication No

- US20200293914

Title

- Natural Language Generation By An Edge Computing Device

Summary

- In one embodiments, a method comprises: receiving, by an edge computing device, event data from an edge event; determining, by the edge computing device, that a network connection to a cloud server is not available; extracting, by the edge computing device, features of the event data; predicting, by a local neural network of the edge computing device, an action for the edge computing device to take based on the features of the event data, wherein the action is associated with a confidence level; and determining, by the edge computing device, whether the confidence level meets a predetermined threshold value.

Publication No

- US20200296045

Title

- Multi-Access Edge Computing (MEC) Service Provision Based On Local Cost Measurements

Summary

- Present invention describes systems, apparatuses, methods, and computer-readable media, for a multi-access edge computing (MEC) system. An apparatus for MEC may include a communication interface, a local cost measurements module, and a service allocation module.

Publication No

- US20200296155

Title

- Method, System And Product To Implement Deterministic On-Boarding And Scheduling Of Virtualized Workloads For Edge Computing

Summary

- A non-transitory computer-readable storage medium which is an edge computing system, an apparatus, and a computer-implemented method. The computer-readable storage medium is to identify a target edge node for deployment of a workload thereon.

Publication No

• WO2020185794

Title

• Multi-Slice Support For MEC-Enabled 5G Deployments

Summary

• A system configured to track network slicing operations within a 5G communication network includes processing circuitry configured to determine a network slice instance (NSI) associated with a QoS flow of a UE. The NSI communicates data for a network function virtualization instance of a Multi-Access Edge Computing system within the 5G communication network. Network resources of the 5G communication network used by the NSI are reconfigured based on the generated slice configuration policy.

Publication No

• US20200296187

Title

• Multi-Access Edge Computing (MEC) Translation Of Radio Access Technology Messages

Summary

• An architecture is disclosed to allow the translation or conversion of short-range direct communications between devices with different radio access, such as in a V2X (vehicle-to-everything) .

Publication No

• EP3707881

Title

• Multi-Access Edge Computing (MEC) Architecture And Mobility Framework

Summary

• An architecture to allow the spatial separation of information sources, information processing, and information consumption using objects and tags, including in mobile / multi-access edge computing communication environments, is disclosed.

Publication No

• WO2020182289

Title

• Devices For Supporting Slices In An Edge Computing System

Summary

• The present invention relates to slicing in an edge computing system, i.e. the creation and usage of an edge slice.

Publication No

• US20200296653

Title

• Mobile Network Interaction Proxy

Summary

• Present invention disclosed a system and method for integrating a mobile network with an edge computing system.

Publication No

• US20200283126; US20200283125; CA3074358

Title

• Multi-Rotor Vehicle With Edge Computing Systems

Summary

• A multi-rotor vehicle includes a plurality of electric motors and edge computing systems (ECSs). The ECSs are independent, distinct and distributed to the electric motors, each operatively coupled to a respective electric motor and thereby a respective rotor. Each ECS is configured to acquire and process sensor data for the respective rotor to determine rotor status information, and execute motor commands to control the respective electric motor and thereby the respective rotor.

Publication No

- US20200288516

Title

- Software Demarcation In Edge Computing Environment

Summary

- Methods, computer-readable media, and devices for instantiating a service provider application on a customer premises-based device are disclosed.

Publication No

- WO2020180072

Title

- Apparatus and Method for Controlling Application Relocation In Edge Computing Environment

Summary

- An electronic apparatus in an edge computing environment comprises memory for storing applications, a wireless communication circuit, and at least one processor functionally connecting to the memory and wireless communication circuit..

Publication No

- US10771569

Title

- Network Communication Control Method of Multiple Edge Clouds and Edge Computing System

Summary

- A network communication control method of multiple edge clouds comprises providing a terminal device with a target service by a first edge computing platform.

Publication No

- WO2020173552

Title

- Migration of Computing Information Between Edge Computing Devices

Summary

- A method for enabling migration of computing information between a first edge computing device associated with a first cell in a cellular network and at least a second edge computing device associated with a second cell in the cellular network.

Publication No

- WO2020172852

Title

- Computing Resource Scheduling Method, Scheduler, Internet of Things System, and Computer Readable Medium

Summary

- The present invention relates to a distributed computing technology, and in particular, to a computing resource scheduling method, a scheduler, an Internet of Things (IoT) system, and a computer readable medium.

Publication No

- WO2020176535

Title

- 5G Network Edge and Core Service Dimensioning

Summary

- Various systems and methods for implementing a multi-access edge computing (MEC) based system to realize 5G Network Edge and Core Service Dimensioning using Machine Learning and other Artificial Intelligence Techniques, for improved operations and usage of computing and networking resources, and are disclosed herein.

Publication No

- WO2020174404

Title

- Augmented Reality Mobile Edge Computing

Summary

- Processing of actions within a shared augmented reality experience is split between an edge node of a communications network and a server. As a result, computation of the current state may be sharded naturally based on real-world location, with state updates generally provided by the edge node and the server providing conflict resolution based on a master state.

In case you would like a more detailed and customized report, please reach us at: Info@Delphii.in

Our website: www.delphii.in

+91- 6364301234