

20/163
S/90

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :19/07/2021

(21) Application No.202141032482 A
(43) Publication Date : 30/07/2021

(54) Title of the invention : A DATA MINING TOOL FOR MONITORING AND REPORTING FOR A CHANGE IN A REAL-TIME DATA

(51) International classification	:H04L0029080000, H04L0029060000, H04L0012240000, H04L0012260000, H04L0012180000	(71)Name of Applicant : 1)Mr.T CH Anil Kumar Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Vignan's Foundation for Science Technology and Research, Vadlamudi, Guntur, Andhra Pradesh, India. Pin Code:522213 Andhra Pradesh India 2)Dr.K.Jamberi 3)Dr. Ravi Kumar Saidala 4)Dr.Jarabala Ranga 5)Dr.P.Prabhu 6)Dr.Potnuri Suribabu 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.Badugu Suresh 10)Dr.S.Selvakanmani
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr.T CH Anil Kumar 2)Dr.K.Jamberi 3)Dr. Ravi Kumar Saidala 4)Dr.Jarabala Ranga 5)Dr.P.Prabhu 6)Dr.Potnuri Suribabu 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.Badugu Suresh 10)Dr.S.Selvakanmani
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[033] The present invention discloses a data mining system for monitoring and reporting for a change in a real-time data. The system includes, but not limited to, one or more processing unit provided with an attacker detection and data changing module in a data resource in a cloud network by monitoring user searches and updating; a binary tree generation of the entered data through a binary tree generator for detecting any illegitimate change by any node present in the cloud network; and a display unit with a user interface to warn the users and all nodes and terminal on recognizing any wrong or illegitimate data updation and entry. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 8

6/8/14
5/91

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111032293 A

(19) INDIA

(22) Date of filing of Application :18/07/2021

(43) Publication Date : 06/08/2021

(54) Title of the invention : INTELLIGENT WEARABLE SWEAT SENSOR BASED DEVICE FOR MONITORING AND RECOMMENDING PERSONAL PHYSICAL FITNESS

(51) International classification	:A61B0005000000, A61B0005145000, H01M0008160000, A61B0005020500, A61B0005010000	(71)Name of Applicant : 1)Dr. Nisheeth Joshi Address of Applicant :Associate Professor, Department of Computer Science, Banasthali Vidyapith, Banasthali 304022, Rajasthan, India Rajasthan India 2)Dr. Pushymitra Mishra 3)Dr. Vikas Kulshreshtha 4)Mr. Yogesh Prabhakar Pingle 5)Mr. Bhaskar Roy 6)Mr. Bikas Mondal 7)Dr. Chiranjib Goswami 8)Prof. Chilukuri Bala Venkata Subbarayudu 9)Dr. Sushma Jaiswal 10)Tarun Jaiswal 11)Dr. Ravi Kumar 12)Dr.S.Balamurugan 13)Dr. Pavithra G 14)Dr.T.C.Manjunath 15)Dr. M. Thangamani
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr. Nisheeth Joshi 2)Dr. Pushymitra Mishra 3)Dr. Vikas Kulshreshtha 4)Mr. Yogesh Prabhakar Pingle 5)Mr. Bhaskar Roy 6)Mr. Bikas Mondal 7)Dr. Chiranjib Goswami 8)Prof. Chilukuri Bala Venkata Subbarayudu 9)Dr. Sushma Jaiswal 10)Tarun Jaiswal 11)Dr. Ravi Kumar 12)Dr.S.Balamurugan 13)Dr. Pavithra G 14)Dr.T.C.Manjunath 15)Dr. M. Thangamani
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application	:NA	
Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The Intelligent Wearable Sweat Sensor-based Device for Monitoring and Recommending Personal Physical Fitness (IWSSD) helps any user to make use of the IWSSD by wearing the wearable fuel cell grid band to generate electricity from sweat and measure the human body health conditions automatically as well as recommend to drink water appropriately. The sweat fuel cell generates electricity from sweat. For this anode, cathode and electrolyte are helps to produce electricity from lactate in sweat on the sweat fuel cell. To do this process the wearable fuel cell grid band needs to be wear by the user. Also, health sensors like temperature sensors, pressure sensors, mineral sensors, etc. in the wearable band are measuring the health values and transfer to the control unit. The control unit process the data and generate results and transmits it to the registered user's mobile phone. The IWSSD control unit helps to monitoring and managing the successful functioning of the whole IWSSD system. By using this IWSSD, any user to make use of the IWSSD by wearing the wearable fuel cell grid band to generate electricity from sweat and measure the human body health conditions automatically as well as recommend drinking water appropriately.

No. of Pages : 16 No. of Claims : 3

15/111
S/92

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141031766 A

(19) INDIA

(22) Date of filing of Application :15/07/2021

(43) Publication Date : 23/07/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR MINING TRAFFIC PATTERNS OF IoT DEVICES IN EDGE NETWORKS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application</p> <p style="padding-left: 20px;">Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:H04L0029080000, H04L0029060000, H04L0012260000, H04L0012240000, H04W0004700000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:PCT//</p> <p>:01/01/1900</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)ANJU ASOKAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI KRISHNA COLLEGE OF TECHNOLOGY, GOLF ROAD, ARIVOLI NAGAR, VIVEKANANDAPURAM, KOVAIPUDUR, COIMBATORE - 641042, TAMIL NADU, INDIA Tamil Nadu India</p> <p>2)ARUN HARIDAS UKARANDE</p> <p>3)Dr. I MOHANA KRISHNA</p> <p>4)VILAS KISANRAO TEMBHURNE</p> <p>5)Dr. D KARUNKUZHALI</p> <p>6)Dr. K SOUJANYA</p> <p>7)Dr. JITENDRA SINGH</p> <p>8)Dr. SUSHMA JAISWAL</p> <p>9)MAHENDRA SHRIDHAR NAIK</p> <p>10)MAKHAN KUMBHKAR</p> <p>11)MONISHA GUPTA</p> <p>12)Dr. MEESALA SUDHIR KUMAR</p> <p>(72)Name of Inventor :</p> <p>1)ANJU ASOKAN</p> <p>2)ARUN HARIDAS UKARANDE</p> <p>3)Dr. I MOHANA KRISHNA</p> <p>4)VILAS KISANRAO TEMBHURNE</p> <p>5)Dr. D KARUNKUZHALI</p> <p>6)Dr. K SOUJANYA</p> <p>7)Dr. JITENDRA SINGH</p> <p>8)Dr. SUSHMA JAISWAL</p> <p>9)MAHENDRA SHRIDHAR NAIK</p> <p>10)MAKHAN KUMBHKAR</p> <p>11)MONISHA GUPTA</p> <p>12)Dr. MEESALA SUDHIR KUMAR</p>
--	---	---

(57) Abstract :

The present invention is a system for mining traffic patterns in edge network connected IoT devices. An IoT traffic measurement framework on programmable and intelligent edge routers to automatically collect incoming, outgoing, and internal network traffic of IoT devices in edge networks, and to build multidimensional behavioral profiles which characterize who, when, what, and why on the behavioral patterns of IoT devices based on continuously collected traffic data. The first effort to shed light on the IP-spatial, temporal, entropy, and cloud service patterns of IoT devices in edge networks, and to explore these multidimensional behavioral fingerprints for IoT device classification, anomaly traffic detection, and network security monitoring for vulnerable and resource-constrained IoT devices on the Internet.

No. of Pages : 26 No. of Claims : 4

10/317

 S/93

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141031755 A

(19) INDIA

(22) Date of filing of Application :14/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : A System and Method for E-Mail Feedback in a Trusted Network using Non-Deterministic Methods & Tools

<p>(51) International classification :H04L0029060000, H04L0012580000, H04L0009320000, H04L0029080000, H04L0001060000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No :NA (61) Patent of Addition to Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.L.Thomas Robinson Address of Applicant :Assistant Professor, Department of Computer Science, Nanjil Catholic College of Arts and Science, kaliyakkavilai, Kanyakumari, Tamil Nadu, India. Pin Code:629153 Tamil Nadu India</p> <p>2)Dr.Maddu.Kamaraju 3)Mr.Pilla Mohan Ganesh 4)Dr.K.R.N. Kiran Kumar 5)Ms.PremaLatha Velagapalli 6)Dr.G.Vasavi 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.J.Manoranjini 10)Dr.Rabinarayan Satpathy</p> <p>(72)Name of Inventor :</p> <p>1)Dr.L.Thomas Robinson 2)Dr.Maddu.Kamaraju 3)Mr.Pilla Mohan Ganesh 4)Dr.K.R.N. Kiran Kumar 5)Ms.PremaLatha Velagapalli 6)Dr.G.Vasavi 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.J.Manoranjini 10)Dr.Rabinarayan Satpathy</p>
--	--

(57) Abstract :

[030] The present invention discloses a system for E-mail feedback in a trusted network using Non-Deterministic methods and tools and method thereof. The system includes, but not limited to, a processing node with a user name configured to send authorized inbound messages to trusted networks; an authorized message having a trusted source encryption with the receiver feedback; a reporting status of the authorized message with processed feedback to process using Non-Deterministic methods and tools for processing the authorized message of the user. Further, the processing node with the user name is configured to generate non-deterministic data values corresponding to respective authorized message of the user. In addition, the non-deterministic data values are having multiple root hash values of a distributed hash tree infrastructure having as input the authorized message with a plurality of digital input records during a respective processing node transmission. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 10

10/308
5/94

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141031402 A

(19) INDIA

(22) Date of filing of Application :13/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : A SYSTEM FOR SHARING IMAGES AND MULTIMEDIA MESSAGE IN A CLOUD NETWORK

(51) International classification	:H04L0029080000, G06F0021620000, H04L0029060000, H04L0012580000, G06F0021600000	(71)Name of Applicant : 1)Dr.K.Dhana Sree Devi Address of Applicant :Associate Professor, Department of Computer Science And Engineering, CVR College of Engineering, Hyderabad, Telangana, India. Pin Code: 501510 Telangana India 2)Mr.Chunduru Anilkumar 3)Dr.D.Shanthi 4)Dr.Nemi Chand Singh 5)Dr.Sushma Jaiswal 6)Mr.Tarun Jaiswal 7)Mr.Pradeep Raj Savarapu 8)Dr.E.Sreedevi 9)Ms.Jaladi Snehalatha 10)Mr.Ganesh Davanam
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr.K.Dhana Sree Devi 2)Mr.Chunduru Anilkumar 3)Dr.D.Shanthi 4)Dr.Nemi Chand Singh 5)Dr.Sushma Jaiswal 6)Mr.Tarun Jaiswal 7)Mr.Pradeep Raj Savarapu 8)Dr.E.Sreedevi 9)Ms.Jaladi Snehalatha 10)Mr.Ganesh Davanam
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A SYSTEM FOR SHARING IMAGES AND MULTIMEDIA MESSAGE IN A CLOUD NETWORK [029] The present invention discloses a system for sharing images and 5 multimedia message in a cloud network. The system includes, but not limited to, a first terminal remote from a first user provided with a selection from among a plurality of possible access rights to generate a granted access right set which contains a set of access rights to a remotely stored images or multimedia messages; a processing unit for permitting input of another user with his/her 10 electronic address associated with the granted access right set; a communication unit for transmitting the granted access right set and associated another user electronic address. Accompanied Drawing [FIG. 1]

No. of Pages : 18 No. of Claims : 9

10/273
8/95

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141031063 A

(19) INDIA

(22) Date of filing of Application :10/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR ANALYSING BIOLOGICAL EFFECTS OF MOLECULES USING MONTE CARLO METHOD

(51) International classification	:G06N0020000000, C12Q0001682700, A61K0031120000, A61K0031166000, G16B0020000000	(71)Name of Applicant : 1)Prof.G.Shankar Lingam Address of Applicant :Dean, Faculty of Engineering and Technology, Professor in Computer Science and Engineering, Chaitanya (Deemed to be University), Hanamkonda, Warangal Urban, Telangana, India. Pin Code506001 Telangana India 2)Dr.S.Venkatesa Prabhu 3)Dr.Seetharam Khetavath 4)Mr.Pradeep Raj Savarapu 5)Mrs.P.Neelima 6)Dr.Sushma Jaiswal 7)Mr.Tarun Jaiswal 8)Dr.Rabinarayan Satpathy 9)Dr.Dumpa Prasad 10)Mr.Anup Dnyaneshwar Bhange
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Prof.G.Shankar Lingam
(33) Name of priority country	:NA	2)Dr.S.Venkatesa Prabhu
(86) International Application No	:PCT//	3)Dr.Seetharam Khetavath
Filing Date	:01/01/1900	4)Mr.Pradeep Raj Savarapu
(87) International Publication No	: NA	5)Mrs.P.Neelima
(61) Patent of Addition to Application Number	:NA	6)Dr.Sushma Jaiswal
Filing Date	:NA	7)Mr.Tarun Jaiswal
(62) Divisional to Application Number	:NA	8)Dr.Rabinarayan Satpathy
Filing Date	:NA	9)Dr.Dumpa Prasad
		10)Mr.Anup Dnyaneshwar Bhange

(57) Abstract :
A SYSTEM AND METHOD FOR ANALYSING BIOLOGICAL EFFECTS OF MOLECULES USING MONTE CARLO METHOD [029] The present invention discloses a system and method for analysing biological effects of molecules using Monte Carlo method. The system, includes, but not limited to, a processing unit for determining whether a plurality of interacting molecules has a biological effect selected from a group consisting of an antibacterial effect, an antiviral effect and an anticancer effect; a plurality of machine learning (ML) and Artificial Intelligence (AI) modules for data modelling of identity of a sample chemical composition of the interacting molecules in conjunction with a Monte Carlo based Processing module. Accompanied Drawing [FIG. 1]

No. of Pages : 19 No. of Claims : 9

10/267
S/98

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141030994 A

(19) INDIA

(22) Date of filing of Application :09/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : A SYSTEM AND METHOD BASED ON NEURAL NETWORK AND HIDDEN MARKOV MODELLING FOR PREDICTING DRUG PROPERTY•

(51) International classification	:G06N0003040000, G16C0020300000, G16B0015000000, G16C0020500000, G16B0020000000	(71)Name of Applicant : 1)Mr.Katikireddy Srinivas Address of Applicant :Professor, Department of CSE, Bonam Venkata Chalamayya Engineering College, Odalarevu, Amalapuram, Andhra Pradesh, India. Pin Code:533210 Andhra Pradesh India 2)Dr.Hiren Madhukar Dekate 3)Dr.Sagaya Aurelia 4)Mr.Boggarapu Srinivasulu 5)Dr.S.Selvakanmani 6)Dr.Keerthika T 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.M.Sunil Kumar 10)Dr.Animesh Kumar Sharma
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Mr.Katikireddy Srinivas 2)Dr.Hiren Madhukar Dekate 3)Dr.Sagaya Aurelia 4)Mr.Boggarapu Srinivasulu 5)Dr.S.Selvakanmani 6)Dr.Keerthika T 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.M.Sunil Kumar 10)Dr.Animesh Kumar Sharma
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[027] The present invention discloses a system and method based on neural network and Hidden Markov modelling for predicting drug property. The system, includes, but not limited to, a convolutional neural network based molecular descriptor modules associated with molecular docking data for the involved molecule; at least one processing unit provided in a computer network or on a cloud server to evaluate one or more three-dimensional (3D) conformations of the docking molecules; a Hidden Markov Modelling (HMM) module provided with training the convolutional neural network for determining a plurality of features that affect energies of the one or more 3D conformations of the docking molecules. Accompanied Drawing [FIG. 1]

No. of Pages : 19 No. of Claims : 8

10/243

S/97

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/07/2021

(21) Application No.202141030571 A
(43) Publication Date : 16/07/2021

(54) Title of the invention : MACHINE LEARNING AND IOT BASED SMART WEARABLE SYSTEM FOR AUTONOMOUS MANAGEMENT OF DIABETES MELLITUS

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No</p> <p style="padding-left: 20px;">Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number</p> <p style="padding-left: 20px;">Filing Date</p> <p>(62) Divisional to Application Number</p> <p style="padding-left: 20px;">Filing Date</p>	<p>:A61B0005145000, A61M0005142000, A61B0005000000, A61M0005172000, G06F0001160000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:PCT//</p> <p style="padding-left: 20px;">:01/01/1900</p> <p>: NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:NA</p>	<p>(71)Name of Applicant :</p> <p>1)Veena S,SJCIT Address of Applicant :Assistant professor, ECE SJCIT - Chickballapur Karnataka India Karnataka India</p> <p>2)Dr. Jagadeesh Kumar Ega,Chaitanya Deemed to be University</p> <p>3)Seema J,Nagarjuna College of Engineering and Technology</p> <p>4)Dr R Ashok Kumar,GRT Institute of Engineering and Technology</p> <p>5)Dr.Sripriya Arunachalam,Alpha Arts and science college</p> <p>6)Dr. Kola Ramesh,Chaitanya Bharathi Institute of Technology (A)</p> <p>7)Dr Lakshminarayana M,SJB Institute of technology</p> <p>8)Chilukuri Bala Venkata Subbarayudu,Shadan Women's College of Engineering and Technology</p> <p>9)Dr. Sushma Jaiswal,Guru Ghasidas Vishwavidyalaya</p> <p>10)Ashok Kumar Kusuma,B V Raju Institute Of Technology</p> <p>11)Mahesh Kumar A S,PES College of Engineering</p> <p>12)Sampath Kumar B,GM institute of technology</p> <p>(72)Name of Inventor :</p> <p>1)Veena S,SJCIT</p> <p>2)Dr. Jagadeesh Kumar Ega,Chaitanya Deemed to be University</p> <p>3)Seema J,Nagarjuna College of Engineering and Technology</p> <p>4)Dr R Ashok Kumar,GRT Institute of Engineering and Technology</p> <p>5)Dr.Sripriya Arunachalam,Alpha Arts and science college</p> <p>6)Dr. Kola Ramesh,Chaitanya Bharathi Institute of Technology (A)</p> <p>7)Dr Lakshminarayana M,SJB Institute of technology</p> <p>8)Chilukuri Bala Venkata Subbarayudu,Shadan Women's College of Engineering and Technology</p> <p>9)Dr. Sushma Jaiswal,Guru Ghasidas Vishwavidyalaya</p> <p>10)Ashok Kumar Kusuma,B V Raju Institute Of Technology</p> <p>11)Mahesh Kumar A S,PES College of Engineering</p> <p>12)Sampath Kumar B,GM institute of technology</p>
---	--	---

(57) Abstract :

The present invention discloses a smart wearable insulin pump operation based on integration of Machine Learning and IOT with an integrated glucometer assembly. The assembly includes, but not limited to, a blood glucose measuring module with a display means configured to measure and view the blood glucose level of a patient; an USB interface to connect the assembly with a computing device or a portable digital device for further analysing and view the results; a user interface provided with an IoT connectivity on the computing device or the portable digital device; a removable insulin cartridge connected with the piston; a processing unit designed to guide for a predetermined delivery from the removable insulin cartridge to the patient by actuating the linear assembly and according to the requirement evaluated by the blood glucose measuring module, and a machine learning interface to calibrate and to handle the whole process precisely according to the desired level of insulin delivery for the patient. Further, the machine learning interface is further configured to set and schedule the insulin delivery according to previous learning and training for the patient.

No. of Pages : 11 No. of Claims : 6

10/237

S/98

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141030433 A

(19) INDIA

(22) Date of filing of Application :07/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR PREDICTING SEISMIC EVENT USING ML & AI INTERFACES•

(51) International classification	:G01V0001000000, G06N0020000000, G08B0021100000, G06N0007000000, G06F0015760000	(71)Name of Applicant : 1)Dr.A.Balaji Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Guntur Engineering College, Guntur, Andhra Pradesh, India. Pin Code:522002 Andhra Pradesh India 2)Dr.Raghavendra N 3)Dr.Pilli Lalitha Kumari 4)Ms.G.Madhavi Reddy 5)Dr.J.Joseph Ignatious 6)Mrs.C.M.Nalayini 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.MD Javeed Ahammed 10)Dr.Rabinarayan Satpathy
(31) Priority Document No	:NA	(72)Name of Inventor : 1)Dr.A.Balaji 2)Dr.Raghavendra N 3)Dr.Pilli Lalitha Kumari 4)Ms.G.Madhavi Reddy 5)Dr.J.Joseph Ignatious 6)Mrs.C.M.Nalayini 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.MD Javeed Ahammed 10)Dr.Rabinarayan Satpathy
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA :NA	
Filing Date		
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

[034] The present invention discloses a system for predicting seismic event using 5 Machine learning (ML) and Artificial Intelligence (AI) interfaces. The system includes, but not limited to, a plurality of sensors provided with a boundary calculation by using a microcontroller for a predefined area in 3 dimensional space with the measured data of energy for a seismic event. Further, the position of a seismic source, and a time of said seismic event by using deep learning 10 module and Machine learning interfaces. The measured data of energy is done by a first transducer array with a placed sets of seismometers designed to detect a plurality of wave movements. The seismometers further detect the wave movements and convert it into a wave movements into a first voltage. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 9

10/191

S/99

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141030003 A

(19) INDIA

(22) Date of filing of Application :04/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : A SYSTEM AND METHOD FOR DATA ENCRYPTION BETWEEN IOT DEVICES AND A NETWORK GATEWAY

<p>(51) International classification</p> <p>(31) Priority Document No</p> <p>(32) Priority Date</p> <p>(33) Name of priority country</p> <p>(86) International Application No Filing Date</p> <p>(87) International Publication No</p> <p>(61) Patent of Addition to Application Number Filing Date</p> <p>(62) Divisional to Application Number Filing Date</p>	<p>:H04L0029080000, H04L0012240000, H04W0004700000, H04W0012080000, G06F0021600000</p> <p>:NA</p> <p>:NA</p> <p>:NA</p> <p>:PCT// :01/01/1900</p> <p>: NA</p> <p>:NA :NA</p> <p>:NA :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Mr.S.Jaya Prakash Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Idhaya Engineering College for Women, Chinnasalem, Kallakurichi District, Tamil Nadu, India. Pin Code:606201 Tamil Nadu India</p> <p>2)Mrs.K.Mahalakshmi</p> <p>3)Prof.G.Shankar Lingam</p> <p>4)Dr.Seetharam Khetavath</p> <p>5)Dr.P.Harikrishnaprasad</p> <p>6)Mrs.B Shoba Rani</p> <p>7)Dr.Sushma Jaiswal</p> <p>8)Mr.Tarun Jaiswal</p> <p>9)Dr.S.Devaraju</p> <p>10)Dr.Mandadi Srinivas</p> <p>(72)Name of Inventor :</p> <p>1)Mr.S.Jaya Prakash</p> <p>2)Mrs.K.Mahalakshmi</p> <p>3)Prof.G.Shankar Lingam</p> <p>4)Dr.Seetharam Khetavath</p> <p>5)Dr.P.Harikrishnaprasad</p> <p>6)Mrs.B Shoba Rani</p> <p>7)Dr.Sushma Jaiswal</p> <p>8)Mr.Tarun Jaiswal</p> <p>9)Dr.S.Devaraju</p> <p>10)Dr.Mandadi Srinivas</p>
--	---	---

(57) Abstract :

A SYSTEM AND METHOD FOR DATA ENCRYPTION BETWEEN IOT DEVICES AND A NETWORK GATEWAY [035] The present invention discloses a system and method for data encryption 5 between IoT devices and a network gateway in an IoT connectivity. The system includes, but not limited to, one or more processing units provided with each of the IoT devices. The processing unit requests from other IoT devices for the information to the network gateway and initiates a unique identifier generation by using an embedded security module (ESM) of the network gateway with data 10 encryption. Further, the system receives the unique identifier from the ESM, and perform a processing with a time synchronization bit information promptly among the IoT devices. Accompanied Drawing [FIG. 1]

No. of Pages : 21 No. of Claims : 7

10/173
S/100

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141029699 A

(19) INDIA

(22) Date of filing of Application :01/07/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED SMART SOLAR TRACKING TECHNIQUE FOR UNINTERRUPTED POWERING SYSTEM

<p>(51) International classification :H02S0020320000, F24S0050200000, F24S0030000000, H02S0020300000, G01S0003786000</p> <p>(31) Priority Document No :NA</p> <p>(32) Priority Date :NA</p> <p>(33) Name of priority country :NA</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No :NA</p> <p>(61) Patent of Addition to Application Number:NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Lijo Jacob Varghese,Christian College of Engineering and Technology Address of Applicant :Professor, Electrical and Electronics Engineering, Christian College of Engineering and Technology - Oddanchatram Tamil Nadu India 624619 Tamil Nadu India</p> <p>2)Dr.Dattathreya,Alva's institute of Engineering and Technology</p> <p>3)Jagadish S.Jakati,VYI</p> <p>4)Jayaprakash Venugopal,Sathyabama Institute of Science and Technology, (Deemed To Be University)</p> <p>5)Dr. C. Srinivas Gupta,Mallareddy Engineering College</p> <p>6)Archana Patil,RITW, Hyderabad</p> <p>7)Dattatray Sadashiv Doifode,SVKM'S,Institute of technology</p> <p>8)Dr. M. Murali,KSRM College of Engineering</p> <p>9)Dr. Sushma Jaiswal,Guru Ghasidas Vishwavidyalaya</p> <p>10)Dr. Saroj Kumar,JAIN Deemed to be University</p> <p>11)Deepak Gowda .L,ACS College Of Engineering</p> <p>12)Dr.S.K. Manju bargavi,Jain (Deemed-to-be) University</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Lijo Jacob Varghese,Christian College of Engineering and Technology</p> <p>2)Dr.Dattathreya,Alva's institute of Engineering and Technology</p> <p>3)Jagadish S.Jakati,VYI</p> <p>4)Jayaprakash Venugopal,Sathyabama Institute of Science and Technology, (Deemed To Be University)</p> <p>5)Dr. C. Srinivas Gupta,Mallareddy Engineering College</p> <p>6)Archana Patil,RITW, Hyderabad</p> <p>7)Dattatray Sadashiv Doifode,SVKM'S-Institute of technology</p> <p>8)Dr. M. Murali,KSRM College of Engineering</p> <p>9)Dr. Sushma Jaiswal,Guru Ghasidas Vishwavidyalaya</p> <p>10)Dr. Saroj Kumar,JAIN Deemed to be University</p> <p>11)Deepak Gowda .L,ACS College Of Engineering</p> <p>12)Dr.S.K. Manju bargavi,Jain (Deemed-to-be) University</p>
--	---

(57) Abstract :
 This invention focuses on Artificial Intelligence (AI) based solar tracking system to replace the utility power by renewable solar power to meet the increasing demand of energy. Optimal solar power can be generated only when the solar panels are exposed to direct sunlight. But any change in weather condition results in cloudiness in real time, in such case angle of the solar panel has to be turned towards the sunlight. This invention proposes a novel smart powering technique where the solar energy is tracked in an autonomous way for increasing the production of solar energy. The solar tracker fixed biaxially is equipped with two small solar modules additionally. First module is horizontally installed and the second module is installed biaxially in the solar tracker. Position of the solar panel is controlled by the AI algorithm which takes input from prior data on sun trajectory through the year and also on output current generated from the solar panels. When sun light reduces due to clouds, then the current from small solar horizontal module will be more that of module oriented to the sun. This system is able to generate 18% solar energy more than conventional system in the presence of clouds.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141028836 A

(19) INDIA

(22) Date of filing of Application :27/06/2021

(43) Publication Date : 16/07/2021

(54) Title of the invention : A SYSTEM FOR PROVIDING HARDWARE ACCESS USING A VIRTUAL MACHINE ENVIRONMENT WITH A USER AUTHENTICATION

<p>(51) International classification :G06F0009455000, H04L0029060000, G06F0009500000, H04L0009320000, G06F0012020000</p> <p>(31) Priority Document No :NA (32) Priority Date :NA (33) Name of priority country :NA (86) International Application No :PCT// Filing Date :01/01/1900 (87) International Publication No : NA (61) Patent of Addition to Application Number:NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr.B.Chandrababu Naik Address of Applicant :Associate Professor, Department of Electronics & Communication Engineering, Chadalawada Ramanamma Engineering College (Autonomous), Tirupati, Andhra Pradesh, India. Pin Code:517506 Andhra Pradesh India</p> <p>2)Dr.MD Javeed Ahammed 3)Dr.Pilli Lalitha Kumari 4)Ms.V.Ramya 5)Mr.Koraveni Vijay 6)Mrs.K.Sivasankari 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.Rabinarayan Satpathy 10)Dr.Pavithra G</p> <p>(72)Name of Inventor :</p> <p>1)Dr.B.Chandrababu Naik 2)Dr.MD Javeed Ahammed 3)Dr.Pilli Lalitha Kumari 4)Ms.V.Ramya 5)Mr.Koraveni Vijay 6)Mrs.K.Sivasankari 7)Dr.Sushma Jaiswal 8)Mr.Tarun Jaiswal 9)Dr.Rabinarayan Satpathy 10)Dr.Pavithra G</p>
---	---

(57) Abstract :

A SYSTEM FOR PROVIDING HARDWARE ACCESS USING A VIRTUAL MACHINE ENVIRONMENT WITH A USER AUTHENTICATION [034] The present invention discloses a system for providing hardware or appliance access using a virtual machine environment with a user authentication in an IoT connectivity. The system includes one or more processors and microcontrollers connected in a computer network with a centralized located processing unit having a plurality of virtualization layers. Each of the virtualization layers is configured with the virtual machines VMs, and further, each of the VMs is having its particular authentication service with the requisite user identification steps.

No. of Pages : 20 No. of Claims : 10