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EMBEDDED SYSTEM

RESEARCH AND CONFERENCE ORIENTED TITLES

IEEE 2016

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ECE, EEE E&I - RESEARCH TOPICS IEEE 2016 BASED

DOMAIN: IOT (Internet of Things)

SINO	TOPIC	CODE
1	Developing An Open Access Monitoring For Off-Grid Renewables	EMB1601
2	A Secure IOT-Based Modern Healthcare System Using Body Sensor Network	EMB1602
3	Secure Management Of Low Power Fitness Trackers	EMB1603
4	Design And Implementation Of Interoperable IOT Healthcare System Based On International Standards	EMB1604
5	Simple Ambulatory Gait Monitoring System Using A Single IMU For Various Daily-Life Gait Activities	EMB1605
6	Turning The Internet Of (My) Things Into A Remote Controlled Laboratory	EMB1606
7	Motion Sensor Data Correction Using Multiple Sensors And Multiple Measurements	EMB1607

DOMAIN: RASPBERRY-PI

SINO	TOPIC	CODE
8	Smart Vehide Security System For Defending Against Collabrative Attacks By Malware	EMB1608
9	SEPIA: Secure -Pin -Authentication-As-A Service For ATM Using Mobile And Wearable Devices	EMB1609
10	A Prototype of Child Monitoring System Using Motion and Authentication with Raspberry Pi	EMB1610
11	Cloud Robotics in industry using rasperry Pi3	EMB1611
12	Real-Time Emotion Recognition from Facial Images using Raspberry Pi 3	EMB1612
13	Eye-gaze Tracking Method Driven by Raspberry Pi Applicable in Automotive Traffic Safety	EMB1613
14	Enhanced Smart Doorbell System Based On Face Recognition	EMB1614
15	A Pilot Study: Development of Home Automation System via Raspberry Pi	EMB1615
16	Industrial Robotic Automation with Raspberry PI using Image Processing	EMB1616
17	Development of IoT based Smart Security and Monitoring Devices for Agriculture	EMB1617
18	IoT Based Data Processing for Automated Industrial Meter Reader using Raspberry Pi	EMB1618
19	Monitoring and Controlling of Mobile Robot Via Internet through Raspberry Pi Board	EMB1619
20	People Identification and Counting System Using Raspberry Pi	EMB1620
21	A Real-time Surveillance Mini-rover Based on OpenCV-Python-JAVA Using Raspberry Pi 3	EMB1621
22	Road Sign Recognition System on Raspberry Pi	EMB1622
23	Rasperry Pi Controlled Traffic Density Monitoring System	EMB1623
24	A novel strategy for controlling the movement of a Smart Wheelchair using Internet of Things	EMB1624

DOMAIN: LI - FI (Visible Light Communication)

SINO	TOPIC	CODE
25	Implementation Of ZIGBEE-VLC System To Support Light Control Network Configuration	EMB1625
26	Impact Of VLC On Light Emission Quality Of White LEDs	EMB1626
27	Stereo Audio Streaming Via Visible Light	EMB1627
28	Uncoordinated Multiple Access Schemes For VLC Systems With Positioning Capability	EMB1628
29	Coexistence Of Wifi And Lifi Towards 5g: Concepts, Opportunities, And Challenges	EMB1629
30	Experimental Biomedical EEG Signal Transmission Using VLC	EMB1630
31	Application Of Li-Fi Technology In The Transmission Of The Sound At The Base Of The PWM	EMB1631
32	Smart Vehicular Communication Sytem Using Lifi Technology	EMB1632

DOMAIN: LI-FI (Voice)

SINO	TOPIC	CODE
33	Analysis Of Area Data Rate With Shadowing Effects in Li-Fi And RF Hybrid Network	EMB1633
34	Non-Line-Of-Sight Channel Impulse Response Characterisation In Visible Light Communications	EMB1634

DOMAIN: LI-FI (UnderWater)

SINO	TOPIC	CODE
35	OPTOCOMM: Introducing A New Optical Underwater Wireless Communication Modem	EMB1635
36	Wireless Optical Data Transfer In Underwater Systems	EMB1636

DOMAIN: WIRELESS

SINO	TOPIC	CODE
37	Wireless Gas Leak Detection And Localization	EMB1637
38	Zigbee Network System For Observing Operating Activities Of Work Vehides	EMB1638
39	Real-Time Patient Health Monitoring And Alarming Using Wireless –Sensor- Networks	EMB1639
40	A Smart Helmet For Air Quality And Hazardous Event Detection For The Mining Industry	EMB1640
41	A Dual-Channel, Interference-Free, Bacteria- Based Biosensor For Highly-Sensitive Water Quality Monitoring	EMB1641
42	Flexible Technologies For Smart Campus	EMB1642

DOMAIN: WPT (WIRELESS POWER TRANSFER)

SINO	TOPIC	CODE
43	Wireless Power Transmission For Multiple Devices	EMB1643
44	A High-Efficiency 24Ghz Rectenna Development Towards Millimeter-Wave Energy Harvesting And Wireless Power Transmission	EMB1644
45	A Real-Time Electrically Controlled Active Matching Circuit Utilizing Genetic Algorithms For Wireless Power Transfer To Biomedical Implants	EMB1645
46	Coexistence Of Wireless Power And Signal Transfer In Magnetic Resonance Coil	EMB1646
47	An Efficient Wireless Power Transfer System To Balance The State Of Charge Of Electric Vehides	EMB1647
48	Electromagnetic Interference On Analog-To-Digital Converters From High-Power Wireless Power Transfer System For Automotive Charger	EMB1648
49	Indigenous Design And Development Of Underwater Wireless Power Transfer System	EMB1649
50	Wireless Power Transfer For Access Limited Wireless Underground Sensor Networks	EMB1650

DOMAIN: ELECTRICAL ENERGY

SINO	TOPIC	CODE
51	Improved Performance Low-Cost Incremental Conductance Pv Mppt Technique	EMB1651
52	Decentralized Power Management In Hybrid Fuel Cell Ultra Capacitor System	EMB1652
53	A New Bidirectional Dc-Dc Converter For Fuel Cell, Solar Cell And Battery Systems	EMB1653
54	Optimized Resource Management For Pv-Fuel Cell Based Microgrids Using Load Characterizations	EMB1654

DOMAIN: ROBOTICS

SINO	TOPIC	CODE
55	Development Of Stereo Vision And Master-Slave Controller For A Compact Surgical Robot System	EMB1655
56	Central Pattern Generators With Biology Observation For The Locomotion Control Of Hexapod Robot	EMB1656
57	A Force-Controlled Portrait Drawing Robot	EMB1657
58	Robotic Automated External Defibrillator Ambulance For Emergency Medical Service In Smart Cities	EMB1658
59	Development Of A Brain-Computer Interface Based On Visual Stimuli For The Movement Of A Robot Joint	EMB1659
60	Optimized Assistive Human-Robot Interaction Using Reinforcement Learning	EMB1660
61	Brain-Computer Interface And Arduino Microcontroller Family Software Interconnection Solution	EMB1661

DOMAIN: BIOMEDICAL

SINO	TOPIC	CODE
62	A Circuit Model Of Real Time Human Body Hydration	EMB1662
63	Estimation Of Circadian Body Temperature Rhythm Based On Heart Rate In Healthy, Ambulatory Subjects	EMB1663
64	A Multi-Signal Acquisition System For Preventive Cardiology With Cuff-Less Bp Measurement Capability	EMB1664
65	Smart Belt: A Wearable Device For Managing Abdominal Obesity	EMB1665

DOMAIN: RSSI

SINO	TOPIC	CODE
66	Non-Parametric And Semi-Parametric RSSI/Distance Modeling For Target Tracking In Wireless Sensor Networks	EMB1666
67	ZIGBEE Network System For Observing Operating Activities Of Work Vehicles	EMB1667
68	Improved Pedestrian Dead-Reckoning Based Indoor Positioning By RSSI Based Heading Correction	EMB1668
69	RSSI-Based Distributed Self-Localization For Wireless Sensor Networks Used In Precision Agriculture	EMB1669

DOMAIN: VIRTUAL REALITY

SINO	TOPIC	CODE
70	Virtual Touch Screens "VIRTOS": Implementing Virtual Touch Buttons And Virtual Sliders Using A Projector And A Camera	EMB1670
71	A Realistic Walking Model For Enhancing Redirection In Virtual Reality	EMB1671
72	Bringing Basic Accessibility Features To Virtual Reality Context	EMB1672

DOMAIN: 3D VIRTUALITY

SINO	TOPIC	CODE
73	3D Pointing Gesture Recognition For Human-Robot Interaction	EMB1673
74	Human Action Recognition Based On 3D Skeleton Part-Based Pose Estimation And Temporal Multi-Resolution Analysis	EMB1674

DOMAIN: ARM 7

SINO	TOPIC	CODE
75	Design And Implementation Of Ethernet Based Embedded Network Controller Using Arm7 (Lpc2148) Processor	EMB1675
76	Intra-Body Communication In Biomedical Applications	EMB1676

DOMAIN: BMI SENSOR

SINO	TOPIC	CODE
77	Dependency Analysis Of BMI In Health Checkup Blood Data	EMB1677
78	Near-Infrared Optics Bio Sensor Used In Body FAT Measurement	EMB1678

DOMAIN: FUEL CELL

SINO	TOPIC	CODE
79	Effect Of Cell Temperature On The Power Output Of A PEM Fuel Cell In A Test Bed Condition	EMB1679
80	Fuzzy Hysteresis Based Power Sharing Controller For Grid Tied Operation Of A Fuel Cell	EMB1680

DOMAIN: GRAVITY PULLEY

SINO	TOPIC	CODE
81	A Calculation Method Of Crane Deflection Considering The Boom Gap	EMB1681

DOMAIN: IBEACON

SINO	TOPIC	CODE
82	A Mobile Indoor Positioning System Based On Ibeacon Technology	EMB1682
83	Accurate Indoor Localization Based On The Inertial Navigation And The Ibeacon	EMB1683

DOMAIN: GSM & GPS

SINO	TOPIC	CODE
84	Milk Products Monitoring System With Arm Processor For Early Detection Of Microbial Activity	EMB1684
85	Gps Based Autonomous Vehicle Navigation And Control System	EMB1685

DOMAIN: IOT (Voice)

SINO	TOPIC	CODE
86	IOT Based Smart Home Design Using Power And Security Management	EMB1686

DOMAIN: PELTIER

SINO	TOPIC	CODE
87	Characterization Of Temperature Sensors Using Peltier Cells	EMB1687
88	Prediction Of The Parameters Of The Thermoelectric Cooling Systems Based On Peltier Elements With Neural Network	EMB1688

DOMAIN: SLAYER POWER EXCITER

SINO	TOPIC	CODE
89	Magnetocumulative Generator As RF/Microwave Source Using Tesla Coil Method	EMB1689