



# IEEE World AI IoT Congress 2021

**AI IoT 2021**

**SEATTLE, WA, USA - VIRTUAL CONFERENCE**

**10<sup>th</sup> – 13<sup>th</sup> MAY 2021**

**All times are given in Pacific Daylight Time (PDT (UTC-7))**

**IEEE World AI IoT Congress 10 – 13 May 2021**  
**TECHNICAL PROGRAM**  
**DAY 1**

| DAY   | EVENT DETAILS  | TIMING                     | PAGE NUMBER |
|---|--|----------------------------|-------------|
| <b>DAY 1</b><br><b>(10<sup>th</sup> May 2021)</b> | <b>INAUGURAL SESSION</b>   | <b>8.30 AM - 9:15 AM</b>   | <b>5</b>    |
|   | <b>KEYNOTE 1: MARS LANDING AND RELATED TECHNICAL CHALLENGES</b>      | <b>9:15 AM - 10.00 AM</b>  | <b>5</b>    |
|   | <b>KEYNOTE 2: TOWARDS MORE HUMANLIKE MODELS FOR NATURAL LANGUAGE</b> | <b>10.00 AM - 10.45 AM</b> | <b>5</b>    |
|   | <b>-----BREAK-----</b>   | <b>10.45 AM - 11.15 AM</b> | <b>5</b>    |
|   | <b>SESSION 1: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>       | <b>11.15 AM - 12.45 PM</b> | <b>6</b>    |
|   | <b>SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>       | <b>11.15 AM - 12.45 PM</b> | <b>7</b>    |
|   | <b>SESSION 3: BIG DATA, DATA MANAGEMENT AND ANALYTICS</b>            | <b>11.15 AM - 12.30 PM</b> | <b>8</b>    |
|   | <b>SESSION 4: BIG DATA AND ARTIFICIAL INTELLIGENCE</b>               | <b>11.15 AM - 12.45 PM</b> | <b>9</b>    |

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**IEEE World AI IoT Congress 10 – 13 May 2021**

**TECHNICAL PROGRAM  
DAY 2 and DAY 3**

| <b>DAY</b>                                       | <b>EVENT DETAILS</b>   | <b>TIMING</b>              | <b>PAGE NUMBER</b> |
|--|--|----------------------------|--------------------|
| <b>DAY 2<br/>(11<sup>th</sup> May<br/>2021)</b>  | <b>KEYNOTE 3: INTERNET OF THINGS – BUILT FOR THE FUTURE</b>  | <b>8.30 AM - 9:15 AM</b>   | <b>10</b>          |
|  | <b>KEYNOTE 4: PARALLEL ALGORITHMS FOR PROBLEMS ON MASSIVE GRAPHS</b>                                 | <b>9:15 AM - 10.00 AM</b>  | <b>10</b>          |
|  | <b>KEYNOTE 5: IOT SECURITY</b>   | <b>10.00 AM - 10.45 AM</b> | <b>10</b>          |
|  | <b>-----BREAK-----</b>   | <b>10.45 AM - 11.15 AM</b> | <b>10</b>          |
|  | <b>SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>                                       | <b>11.15 AM - 12.45 PM</b> | <b>11</b>          |
|  | <b>SESSION 6: AI ALGORITHMS</b>  | <b>11.15 AM - 12.15 PM</b> | <b>12</b>          |
|  | <b>SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>                                       | <b>11.15 AM - 12.15 PM</b> | <b>13</b>          |
|  | <b>SESSION 8: CLOUD COMPUTING, CAD DESIGN AND COMPUTATIONAL INTELLIGENCE</b>                         | <b>11.15 AM - 12.30 PM</b> | <b>14</b>          |
| <b>DAY 3<br/>(12<sup>th</sup> May<br/>2021)</b>  | <b>KEYNOTE 6: PROGRAMMING LANGUAGES FOR THE LAW</b>  | <b>8.30 AM - 9:15 AM</b>   | <b>15</b>          |
|  | <b>KEYNOTE 7: REAL APPLICATION OF MACHINE LEARNING (REALM): SITUATION KNOWLEDGE ON DEMAND (SKOD)</b> | <b>9:15 AM - 10.00 AM</b>  | <b>15</b>          |
|  | <b>KEYNOTE 8: MACHINE LEARNING CHALLENGES IN IOT APPLICATIONS</b>                                    | <b>10.00 AM – 10.45 AM</b> | <b>15</b>          |
|  | <b>-----BREAK-----</b>   | <b>10.45 AM – 11.15 AM</b> | <b>15</b>          |
|  | <b>SESSION 9: WORKSHOP</b>   | <b>11 AM – 2 PM</b>        | <b>16</b>          |
|  | <b>SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>                                      | <b>11.15 AM - 12.45 PM</b> | <b>17</b>          |
|  | <b>SESSION 11: PATTERN RECOGNITION, IoT SECURITY AND COMPUTATIONAL INTELLIGENCE</b>                  | <b>11.15 AM - 12.30 PM</b> | <b>18</b>          |
|  | <b>SESSION 12: CRYPTOGRAPHY, IoT PROTOCOLS AND ROBOTICS</b>  | <b>11.15 AM - 12.30 PM</b> | <b>19</b>          |
| <b>SESSION 13: ROBOTICS AND SECURITY FOR IoT</b> | <b>11.15 AM - 12.45 PM</b>   | <b>20</b>                  |                    |

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**IEEE World AI IoT Congress 10 – 13 May 2021**  
**TECHNICAL PROGRAM**  
**DAY 4**

| DAY   | EVENT DETAILS  | TIMING                     | PAGE NUMBER |
|---|--|----------------------------|-------------|
| <b>Day 4<br/>(13<sup>th</sup> May<br/>2021)</b> | <b>KEYNOTE 9: CREATING REACTIVE ROBOT BEHAVIORS FOR REAL-WORLD APPLICATIONS</b>      | <b>8.30 AM - 9:15 AM</b>   | <b>21</b>   |
|   | <b>KEYNOTE 10: INFORMATION SURGERY</b>   | <b>9:15 AM - 10:00 AM</b>  | <b>21</b>   |
|   | <b>-----BREAK-----</b>   | <b>10.00 AM - 10.30 AM</b> | <b>21</b>   |
|   | <b>SESSION 14: IoT ENABLING TECHNOLOGIES</b>   | <b>10.30 AM - 11:45 AM</b> | <b>22</b>   |
|   | <b>SESSION 15: ARTIFICIAL INTELLIGENCE TOOLS, APPLICATIONS AND AUTOMATIC CONTROL</b> | <b>10.30 AM - 11:45 AM</b> | <b>23</b>   |
|   | <b>SESSION 16: IoT ENABLING TECHNOLOGIES, SECURITY AND DATA MINING</b>               | <b>10.30 AM - 11:45 AM</b> | <b>24</b>   |
|   | <b>SESSION 17: IoT, DATA MINING AND CLOUD COMPUTING</b>                              | <b>10.30 AM - 11:15 AM</b> | <b>25</b>   |
|   | <b>VALEDICTORY SESSION</b>   | <b>11.45 AM - 12.00 PM</b> | <b>25</b>   |

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# IEEE World AI IoT Congress -DAY 1:10th MAY 2021

| TIME                | NAME OF THE EVENT   | PARTICIPATION LINK                     |
|---------------------|---|--|
| 8.30 AM - 9.15 AM   | <b>INAUGURATION</b>   | (Will be shared to attendees by email) |
| 9.15 AM - 10.00 AM  | KEYNOTE ADDRESS BY <b>GOUTAM CHATTOPADHYAY</b><br>(SENIOR RESEARCH SCIENTIST, NASA -JET PROPULSION LABORATORY, CALIFORNIA)<br><br>"MARS LANDING AND RELATED TECHNICAL CHALLENGES" |  |
| 10.00 AM - 10.45 AM | KEYNOTE ADDRESS BY <b>ADINA WILLIAMS</b><br>(RESEARCH SCIENTIST, FACEBOOK AI RESEARCH)<br><br>"TOWARDS MORE HUMANLIKE MODELS FOR NATURAL LANGUAGE"                                |  |
| 10.45 AM-11.15 AM   | ----- <b>BREAK</b> -----  |  |
|                     | <b>PARALLEL SESSIONS:</b>   |  |
| 11.15 AM-12.45 PM   | SESSION 1: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING   |  |
| 11.15 AM-12.45 PM   | SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING   |  |
| 11.15 AM-12.30 PM   | SESSION 3: BIG DATA, DATA MANAGEMENT AND ANALYTICS  |  |
| 11.15 AM-12.45 PM   | SESSION 4: BIG DATA AND ARTIFICIAL INTELLIGENCE   |  |

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# IEEE World AI IoT Congress -DAY 1: 10th MAY 2021

## SESSION 1:ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR:GUANG GONG (UNIVERSITY OF WATERLOO, CANADA)

SESSION TIME: 11.15 AM - 12.45 PM (DAY 1: 10th MAY 2021)

PARTICIPATION LINK: (Will be shared to attendees by email)

| TIME ALLOTTED       | PAPER ID   | PAPER NAME  | AUTHORS WITH AFFILIATION & COUNTRY   |
|---------------------|------------|---|--|
| 11.15 AM - 11.30 AM | 1570715113 | Differentially-Private Federated Learning With Long-Term Budget Constraints Using Online Lagrangian Descent                           | Olusola Tolulope Odeyomi (Wichita State University, USA & Obafemi Awolowo University, Nigeria); Gergely Zaruba (Wichita State University, USA)   |
| 11.30 AM - 11.45 AM | 1570715664 | Automatic Detection Using Deep Convolutional Neural Networks for 11 Abnormal Positioning of Tubes and Catheters in Chest X-Ray Images | Elaanba Abdelfettah (Higher School of Technology, Hassan II University of Casablanca, Morocco); Mohammed Ridouani (Hassan 2 University Casablanca - ESTC, Morocco); Larbi Hassouni (CED-ENSEM HASSANII University & Estc, Morocco)   |
| 11.45 AM - 12.00 PM | 1570712763 | Integrated Energy Monitoring and Control IoT System and Validation Results From Neural Network Control Demonstration                  | Douglas Ellman, Pratiksha Shukla and Yuanzhang Xiao (University of Hawaii at Manoa, USA); Magdy Iskander (University of Hawaii, USA); Kevin Davies (University of Hawaii at Manoa, USA)  |
| 12.00 AM - 12.15 PM | 1570716165 | Forecasting Vaccination Drive in India for Herd Immunity Using SIR and Prophet Model  | Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Kumar Ayush, Abhishek Rajput, Shyamal Dhua, Karthikeyan N, Saswat P Beurik, Nikita Khare, Supriya Ghodke and Anwesh Reddy Paduri (Great Learning, India) |
| 12.15 PM -12.30 PM  | 1570715920 | Multi-Modal Multi-Stream UNET Model for Liver Segmentation  | Hagar Louye (Arab Academy for Science and Technology, Egypt); Mohamed Waleed Fakhr (Arab Academy for Science and Technology & AAST, Egypt)   |
| 12.30 PM - 12.45 PM | 1570715852 | Adversarial Black-Box Attacks Against Network Intrusion Detection Systems: A Survey   | Huda Ali Alatwi (Newcastle University & Tabuk University, United Kingdom (Great Britain)); Amjad Aldweesh (Shaqra University, Saudi Arabia)  |

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# IEEE World AI IoT Congress -DAY 1: 10th MAY 2021

| <b>SESSION 2: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>             |                 |   |  |
|--|-----------------|---|--|
| <b>SESSION CHAIR: ZHENGXIN CHEN (UNIVERSITY OF NEBRASKA AT OMAHA, USA)</b> |                 |   |  |
| <b>SESSION TIME: 11.15 AM - 12.45 PM (DAY 1: 10th MAY 2021)</b>            |                 |   |  |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b>          |                 |   |  |
| <b>TIME ALLOTTED</b>   | <b>PAPER ID</b> | <b>PAPER NAME</b>   | <b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>  |
| 11.15 AM - 11.30 AM  | 1570711828      | Early Prediction of Electronics Engineering Licensure Examination Performance Using Random Forest         | Renato R. Maaliw III (Southern Luzon State University, Philippines)  |
| 11.30 AM - 11.45 AM  | 1570712922      | Remote Crop Sensing With IoT and AI on the Edge   | Panagiotis Savvidis and George A Papakostas (International Hellenic University, Greece)  |
| 11.45 AM - 12.00 PM  | 1570712927      | An Audio Processing Approach using Ensemble Learning for Speech-Emotion Recognition for Children with ASD | Damian Valles and Rezwan Matin (Texas State University, USA)   |
| 12.00 AM - 12.15 PM  | 1570715491      | Knife Detection Using Indoor Surveillance Camera  | Yoshemart Amador-Salgado (Daifuku, Mexico); Jose A. Padilla-Medina and Francisco J. Perez-Pinal (TecNM Celaya, Mexico); Martín Rodríguez-Licea and Alejandro I. Barranco-Gutierrez (Cátedras CONACyT - TecNM Celaya, Mexico); Juan Martínez-Nolasco (TecNM Celaya, Mexico) |
| 12.15 PM - 12.30 PM  | 1570716162      | Expert System in Micropower Grid Planning   | Ahmed Essam Abdel Aziz, Nada Adel Hendawy, Rania Magdy Ahmed, Hesham Ayman Nasr, Mohamed Adel Shalaby and Sahar A. Moussa (Pharos University, Egypt)   |
| 12.30 PM - 12.45 PM  | 1570712117      | OCTAI: Smartphone-Based Optical Coherence Tomography Image Analysis System                                | Adrit Rao (AI/Medical Research, USA); Harvey Fishman (Stanford University, USA)  |

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# IEEE World AI IoT Congress -DAY 1: 10th MAY 2021

| <b>SESSION 3: BIG DATA, DATA MANAGEMENT AND ANALYTICS</b>                     |                 |   |   |
|---|-----------------|---|---|
| <b>SESSION CHAIR: SHAHAB TAYEB (CALIFORNIA STATE UNIVERSITY, FRESNO, USA)</b> |                 |   |   |
| <b>SESSION TIME: 11.15 AM - 12.30 PM (DAY 1: 10th MAY 2021)</b>               |                 |   |   |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b>             |                 |   |   |
| <b>TIME ALLOTTED</b>  | <b>PAPER ID</b> | <b>PAPER NAME</b>   | <b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>   |
| 11.15 AM - 11.30 AM   | 1570710554      | Understanding the Association of Personal Outlook in Free Speech Regulation and the Risk of Being Mis/Disinformed | Kevin Matthe Caramancion (University at Albany, USA)  |
| 11.30 AM - 11.45 AM   | 1570712901      | Development of A Mobile Application for Patient's Medical Record and History                                      | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh) |
| 11.45 AM - 12.00 PM   | 1570711844      | Collaborative Fog Computing Architecture for Privacy-Preserving Data Aggregation                                  | Hani H Qusa and Jumana Tarazi (Higher Colleges of Technology, United Arab Emirates)               |
| 12.00 AM - 12.15 PM   | 1570712897      | GERAM BAZAR, A Mobile Application and Website Interface E-Commerce  | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh) |
| 12.15 PM - 12.30 PM   | 1570716126      | Epidemiological Spatiotemporal Data Exploration and Prediction  | Sudarshan S Chawathe (University of Maine, USA)   |

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# IEEE World AI IoT Congress -DAY 1: 10th MAY 2021

| <b>SESSION 4: BIG DATA AND ARTIFICIAL INTELLIGENCE</b>                          |                 |  |  |
|---|-----------------|--|--|
| <b>SESSION CHAIR : ANIRBAN DAS (UNIVERSITY OF ENGINEERING &amp; MANAGEMENT)</b> |                 |  |  |
| <b>SESSION TIME: 11.15 AM - 12.45 PM (DAY 1: 10th MAY 2021)</b>                 |                 |  |  |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b>               |                 |  |  |
| <b>TIME ALLOTTED</b>  | <b>PAPER ID</b> | <b>PAPER NAME</b>  | <b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>  |
| 11.15 AM - 11.30 AM   | 1570712907      | RentBd-An Exclusive Fashion Rental Service   | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)  |
| 11.30 AM - 11.45 AM   | 1570716182      | HACS: Access Control for Streaming Data Across Heterogeneous Communication Models              | Atul Anand Gopalakrishnan, Ashish C Victor, Deepika Karanji and Umashankar Sivakumar (PES University, India); Seema Nambiar (PES University, Bengaluru, India); Subramaniam Kalambur (PES University, India) |
| 11.45 AM - 12.00 PM   | 1570712908      | An Interactive Android Application to Share Rides With NSUers                                  | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)  |
| 12.00 AM - 12.15 PM   | 1570712235      | A Survey on Machine Learning and Internet of Things for COVID-19                               | Ersin Elbasi, Shinu Mathew, Ahmet E Topcu and Wiem Abdelbaki (American University of the Middle East, Kuwait)  |
| 12.15 PM - 12.30 PM   | 1570712914      | An Interactive Web Platform and Android Application Based on Room Sharing Service for Students | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)  |
| 12.30 PM - 12.45 PM   | 1570712562      | Hardware Deployment of HBONext Using NXP Bluebox 2.0   | Sanket Joshi and Mohamed El-Sharkawy (Purdue School of Engineering and Technology, USA)  |

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## IEEE World AI IoT Congress -DAY 2: 11th MAY 2021

| TIME                | NAME OF THE EVENT   | PARTICIPATION LINK                     |
|---------------------|---|--|
| 8.30 AM - 9.15 AM   | KEYNOTE ADDRESS BY <b>DEBJIT MOOKHERJEE</b><br>(HEAD OF IOT IN ADVANCED INDUSTRIES GROUP IT, ERICSSON)<br><br>"INTERNET OF THINGS – BUILT FOR THE FUTURE" | (Will be shared to attendees by email) |
| 9.15 AM - 10.00 AM  | KEYNOTE ADDRESS BY <b>CLIFFORD S STEIN</b><br>(PROFESSOR, COLUMBIA UNIVERSITY, USA)<br><br>"PARALLEL ALGORITHMS FOR PROBLEMS ON MASSIVE GRAPHS"           |  |
| 10.00 AM - 10.45 AM | KEYNOTE ADDRESS BY <b>ELISA BERTINO</b><br>(PROFESSOR, PURDUE UNIVERSITY, USA)<br><br>"IOT SECURITY"  |  |
| 10.45 AM - 11.15 AM | ----- <b>BREAK</b> -----  |  |
|                     | <b>PARALLEL SESSIONS:</b>   |  |
| 11.15 AM - 12.45 PM | SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING   |  |
| 11.15 AM - 12.15 PM | SESSION 6: AI ALGORITHMS  |  |
| 11.15 AM - 12.15 PM | SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING   |  |
| 11.15 AM - 12.30 PM | SESSION 8: CLOUD COMPUTING, CAD DESIGN AND COMPUTATIONAL INTELLIGENCE   |  |

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# IEEE World AI IoT Congress -DAY 2: 11th MAY 2021

| <b>SESSION 5: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING</b>        |                 |  |  |
|---|-----------------|--|--|
| <b>SESSION CHAIR :SUDARSHAN S CHAWATHE (UNIVERSITY OF MAINE, USA)</b> |                 |  |  |
| <b>SESSION TIME: 11.15 AM - 12.45 PM (DAY 2: 11TH MAY 2021)</b>       |                 |  |  |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b>     |                 |  |  |
| <b>TIME ALLOTTED</b>  | <b>PAPER ID</b> | <b>PAPER NAME</b>  | <b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>  |
| 11.15 AM - 11.30 AM   | 1570712909      | Education System for Bangladesh Using Augmented Reality, Virtual Reality and Artificial Intelligence | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)  |
| 11.30 AM - 11.45 AM   | 1570711653      | Food Temperature Analysis and Forecasting  | Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Sulekha Dileep, Dinakar Komanduri, Nandan Garimella, Swaroop Manchala, Prajwal Shetty, Santosh Vadlamani and Anwesh Reddy Paduri (Great Learning, India) |
| 11.45 AM - 12.00 PM   | 1570712555      | Prediction of Link Quality for IoT Cloud Communications Supported by Machine Learning                | Beatriz Dias (ISCTE-IUL, Portugal); André Glória (ISCTE - Instituto Universitário de Lisboa, Instituto de Telecomunicações, Portugal); Pedro Sebastião (ISCTE, Instituto de Telecomunicações, Portugal)                              |
| 12.00 AM - 12.15 PM   | 1570706023      | Efficient Early Prediction and Diagnosis of Diseases Using Machine Learning Algorithms for IoMT Data | Ersin Elbasi and Aymen Zreikat (American University of the Middle East, Kuwait)  |
| 12.15 PM - 12.30 PM   | 1570712905      | Educational Web Application for Young People to Raise Awareness on Menstruation                      | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)  |
| 12.30 PM - 12.45 PM   | 1570712717      | Prediction of Weather Forecast for Smart Agriculture Supported by Machine Learning                   | Francisco Raimundo (ISCTE-IUL, Portugal); André Glória (ISCTE - Instituto Universitário de Lisboa, Instituto de Telecomunicações, Portugal); Pedro Sebastião (ISCTE, Instituto de Telecomunicações, Portugal)                        |

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# IEEE World AI IoT Congress -DAY 2: 11th MAY 2021

## SESSION 6: AI ALGORITHMS

**SESSION CHAIR: ALI ABDULLAH S. ALQAHTANI (UNIVERSITY OF WISCONSIN-GREEN BAY, USA)**

**SESSION TIME: 11.15 AM - 12.15 PM (DAY 2: 11TH MAY 2021)**

**PARTICIPATION LINK: (Will be shared to attendees by email)**

| TIME ALLOTTED       | PAPER ID   | PAPER NAME  | AUTHORS WITH AFFILIATION & COUNTRY  |
|---------------------|------------|---|---|
| 11.15 AM - 11.30 AM | 1570715879 | Hybrid Ant Based Clustering for Data Clustering   | Md Ali Azam, Md Abir Hossen and Md Hafizur Rahman (South Dakota School of Mines and Technology, USA)  |
| 11.30 AM - 11.45 AM | 1570716178 | Improved Noise Filtering Technique for Wake Detection in SAR Image Under Rough Sea Condition  | Subashini Parthasarathy (Avinashilingam Institute for Home Science and Higher Education for Women, India); Hareesh Kumar Pv and Lekshmi S (Naval Physical & Oceanographic Laboratory, India); Krishnaveni Marimuthu (Department of Computer Science, Avinashilingam University for Women & Avinashilingam University for Women, India); Dhivyaprabha Thoosi Thyagarajan (Avinashilingam Institute for Home Science and Higher Education for Women, India) |
| 11.45 AM - 12.00 PM | 1570716177 | A Comparative Analysis of Lithium Ion Battery Input Profiles for Remaining Useful Life Prediction by Cascade Forward Neural Network | Shaheer Ansari (University Kebangsaan Malaysia, Malaysia); A Ayob and Molla Shahadat Hossain Lipu (The National University of Malaysia, Malaysia); Mohamad Hanif Md Saad and Aini Hussain (Universiti Kebangsaan Malaysia, Malaysia)  |
| 12.00 AM - 12.15 PM | 1570715438 | An Adaptive Deep-Ensemble Anomaly-Based Intrusion Detection System for the Internet of Things                                       | Khalid Abdullah Albulayhi (University of Idaho & Technical and Vocational Training Corporation, USA); Frederick T Sheldon (University of Idaho, USA)  |

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# IEEE World AI IoT Congress -DAY 2: 11th MAY 2021

## SESSION 7: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

SESSION CHAIR: EMAN ABDELFAH (RAMAPO COLLEGE OF NEW JERSEY, USA)

SESSION TIME: 11.15 AM - 12.15 PM (DAY 2: 11TH MAY 2021)

PARTICIPATION LINK: (Will be shared to attendees by email)

| TIME ALLOTTED       | PAPER ID   | PAPER NAME  | AUTHORS WITH AFFILIATION & COUNTRY  |
|---------------------|------------|---|---|
| 11.15 AM - 11.30 PM | 1570715507 | Machine Biometrics - Towards Identifying Machines in a Smart City Environment                           | George Sidiropoulos and George A Papakostas (International Hellenic University, Greece)           |
| 11.30 AM - 11.45 AM | 1570716010 | Towards Machine Learning and Low Data Rate IoT for Fault Detection in DataDriven Predictive Maintenance | Wesley B Richardson, Sune von Solms and Johan Meyer (University of Johannesburg, South Africa)    |
| 11.45 AM - 12.00 PM | 1570715699 | Cataract Detection Using Convolutional Neural Network With VGG-19 Model                                 | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh) |
| 12.00 AM - 12.15 PM | 1570715973 | Class Insight: A Student Monitoring System With Real-Time Updates Using Face Detection and Eye Tracking | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh) |

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# IEEE World AI IoT Congress -DAY 2: 11th MAY 2021

## SESSION 8: CLOUD COMPUTING, CAD DESIGN AND COMPUTATIONAL INTELLIGENCE

**SESSION CHAIR: HONG YU (FITCHBURG STATE UNIVERSITY, USA)**

**SESSION TIME: 11.15 AM - 12.30 PM (DAY 2: 11TH MAY 2021)**

**PARTICIPATION LINK: (Will be shared to attendees by email)**

| TIME ALLOTTED       | PAPER ID   | PAPER NAME  | AUTHORS WITH AFFILIATION & COUNTRY  |
|---------------------|------------|---|---|
| 11.15 AM - 11.30 AM | 1570712367 | Development of a MATLAB Web-based Application for Calculating Ionospheric Scintillation Proxy Indexes (S4p-1 and S4p-2) and the Rate of Total Electron Content Index (RoTI) | Kyle Ezekiel S. Juadines (Mapúa University, Philippines); Alejandro H. Ballado, Jr. (Mapua University, Philippines); Ernest P Macalalad (Mapúa University, Philippines); Merlin Malonzo Mendoza (National Central University, Taiwan) |
| 11.30 AM - 11.45 AM | 1570716471 | A Novel Biphasic Neuron Encoder Implementation  | Madhuvanathi Srivatsav R and Binsu J Kailath (IIITDM Kancheepuram, India)   |
| 11.45 AM - 12.00 PM | 1570716171 | Mutually Private Verifiable Machine Learning As-a-Service: A Distributed Approach   | Shadan Ghaffaripour and Ali Miri (Ryerson University, Canada)   |
| 12.00 AM - 12.15 PM | 1570712601 | Recent Challenges for Haptic Interface and Control for Robotic Assisted Surgical Training System: A Review  | Santosh Kumar Singh, Liangjing Yang and Ma Hao (Zhejiang University, China)   |
| 12.15 PM - 12.30 PM | 1570716105 | Robustness Analysis of Cyber-Physical Systems Based on Discrete Timed Cyber-Physical Models   | Fu-Shiung Hsieh (Chaoyang University of Technology, Taiwan)   |

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# IEEE World AI IoT Congress -DAY 3: 12th MAY 2021

| TIME                | NAME OF THE EVENT   | PARTICIPATION LINK                     |
|---------------------|---|--|
| 8.30 AM - 9.15 AM   | KEYNOTE ADDRESS BY <b>JONATHAN PROTZENKO</b><br>(PRINCIPAL RESEARCHER, MICROSOFT RESEARCH)<br><br>"PROGRAMMING LANGUAGES FOR THE LAW"   | (Will be shared to attendees by email) |
| 9.15 AM - 10.00 AM  | KEYNOTE ADDRESS BY <b>BHARAT K. BHARGAVA</b><br>(PROFESSOR, PURDUE UNIVERSITY, USA)<br><br>"REAL APPLICATION OF MACHINE LEARNING (REALM): SITUATION KNOWLEDGE ON DEMAND (SKOD)" |  |
| 10.00 AM – 10.45 AM | KEYNOTE ADDRESS BY <b>TAREK ABDELZAHER</b><br>(PROFESSOR, UNIVERSITY OF ILLINOIS, USA)<br><br>"MACHINE LEARNING CHALLENGES IN IOT APPLICATIONS"                                 |  |
| 10.45 AM-11.15 AM   | ----- <b>BREAK</b> -----  |  |
|                     | <b>PARALLEL SESSIONS:</b>   |  |
| 11.00 AM - 2.00 PM  | SESSION 9: INTERNET OF THINGS WORKSHOP USING RASPBERRY-PI VIRTUAL MACHINES  |  |
| 11.15 AM-12.45 PM   | SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING  |  |
| 11.15 AM-12.30 PM   | SESSION 11: PATTERN RECOGNITION ,IoT SECURITY AND COMPUTATIONAL INTELLIGENCE  |  |
| 11.15 AM-12.30 PM   | SESSION 12: CRYPTOGRAPHY, IoT PROTOCOLS AND ROBOTICS  |  |
| 11.15 AM-12.45 PM   | SESSION 13: ROBOTICS AND SECURITY FOR IoT   |  |

**All times are given in Pacific Daylight Time (PDT (UTC-7))**

# IEEE World AI IoT Congress -DAY 3: 12th MAY 2021

SESSION 9 : WORKSHOP

11:00 AM – 2:00 PM

## INTERNET OF THINGS WORKSHOP *Using Raspberry-Pi Virtual Machines (VMs)*

Conducted by  
**DR. PHILLIP BRADFORD**  
*UNIVERSITY OF CONNECTICUT, STAMFORD, CT, USA*

*Participant Link will be emailed to all registered attendees*

### **PLEASE NOTE:**

- *You must register separately for this session.*
- *You must Pre-Install the Raspberry-Pi Virtual Machine Environment on your computer PRIOR to attending this session*

**All times are given in Pacific Daylight Time (PDT (UTC-7))**



# IEEE World AI IoT Congress - DAY 3:12th MAY 2021

## SESSION 10: ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

**SESSION CHAIR: MEHDI ROOPAEI (UNIVERSITY OF WISCONSIN - PLATTEVILLE, USA)**

**SESSION TIME: 11.15 AM - 12:45 PM (DAY 3: 12TH MAY, 2021)**

**PARTICIPATION LINK: (Will be shared to attendees by email)**

| TIME ALLOTTED       | PAPER ID   | PAPER NAME  | AUTHORS WITH AFFILIATION & COUNTRY  |
|---------------------|------------|---|---|
| 11.15 AM - 11.30 AM | 1570716127 | Emotion Detection of Textual Data: An Interdisciplinary Survey                                  | Samira Zad (Florida International University, USA); Maryam Heidari (George Mason University, USA)   |
| 11.30 AM - 11.45 AM | 1570716215 | Multi-Class Text Classification Using Machine Learning Models for Online Drug Reviews           | Eman Abdelfattah and Shreehar Joshi (Ramapo College of New Jersey, USA)   |
| 11.45 AM - 12.00 PM | 1570716175 | Activity & Emotion Detection of Recognized Kids in CCTV Video for Day Care Using SlowFast & CNN | Narayana Darapaneni (Great Learning, India & Northwestern University, USA); Anwesh Reddy Paduri, Akash Srivastav, Dharendra Singh, Neeraj Kilhore, Rashmi Tomer, Sharat Chandra and Shivangi Chopra (Great Learning, India); Sudarshan Sureshrao Deshmukh (University Of Pune & Pimpri Chinchwad College of Engineering, India) |
| 12.00 AM - 12.15 PM | 1570716183 | A Distributed Reinforcement Learning Approach for Power Control in Wireless Networks            | Antonio Ornatelli and Andrea Tortorelli (Sapienza University of Rome, Italy); Francesco Liberati (Sapienza - University of Rome, Italy)   |
| 12.15 PM -12.30 PM  | 1570716207 | A Novel Browser-Based No-Code Machine Learning Application Development Tool                     | Erol Ozan (East Carolina University, USA)   |
| 12.30 PM - 12.45 PM | 1570716133 | A Survey on Concept-Level Sentiment Analysis Techniques of Textual Data                         | Samira Zad (Florida International University, USA); Maryam Heidari (George Mason University, USA)   |

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# IEEE World AI IoT Congress - DAY 3:12th MAY 2021

| <b>SESSION 11: PATTERN RECOGNITION, IoT SECURITY AND COMPUTATIONAL INTELLIGENCE</b>   |            |  |   |
|---|------------|--|---|
| <b>SESSION CHAIR: GEORGE A PAPAKOSTAS (INTERNATIONAL HELLENIC UNIVERSITY, GREECE)</b> |            |  |   |
| <b>SESSION TIME: 11.15 AM - 12:30 PM (DAY 3: 12TH MAY, 2021)</b>                      |            |  |   |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b>                     |            |  |   |
| TIME ALLOTTED   | PAPER ID   | PAPER NAME   | AUTHORS WITH AFFILIATION & COUNTRY  |
| 11.15 AM - 11.30 AM   | 1570715100 | Development of an IoT Based Smart Baby Monitoring System With Face Recognition                             | Riasat Khan (North South University, Bangladesh & New Mexico State University, USA)               |
| 11.30 AM - 11.45 AM   | 1570712410 | Bistable-Triplet STDP Circuit Without External Memory for Integrating With Silicon Neurons                 | Sathiya Jothi S and Binsu J Kailath (IIITDM Kancheepuram, India)                                  |
| 11.45 AM - 12.00 PM   | 1570712869 | RiftNet Reconstruction Model for Radio Frequency Domain Waveform Representation and Synthesis              | Joseph Carmack and Scott Kuzdeba (BAE Systems, USA)   |
| 12.00 AM - 12.15 PM   | 1570713262 | Development of Web Based Tour Package System   | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh) |
| 12.15 PM -12.30 PM  | 1570715036 | A Multiple Access Protocol for Multimedia Transmission Over 5G Wireless Asynchronous Transfer Mode Network | Hong Yu, Fanming Liu and Marcus Perrla (Fitchburg State University, USA)                          |

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# IEEE World AI IoT Congress - DAY 3:12th MAY 2021

| <b>SESSION 12 : CRYPTOGRAPHY, IoT PROTOCOLS AND ROBOTICS</b>           |                 |   |  |
|--|-----------------|---|--|
| <b>SESSION CHAIR: MUATH OBAIDAT (CITY UNIVERSITY OF NEW YORK, USA)</b> |                 |   |  |
| <b>SESSION TIME: 11.15 AM - 12:30 PM (DAY 3: 12TH MAY, 2021)</b>       |                 |   |  |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b>      |                 |   |  |
| <b>TIME ALLOTTED</b>   | <b>PAPER ID</b> | <b>PAPER NAME</b>   | <b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>  |
| 11.15 AM - 11.30 AM  | 1570712906      | An Automatic Soil Testing Machine for Accurate Fertilization  | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)  |
| 11.30 AM - 11.45 AM  | 1570712465      | Study of Behaviors of Motion Models in High-Order Systems   | Tri Minh Tran (Gunma University & Japan, Japan); Anna Kuwana and Haruo Kobayashi (Gunma University, Japan)   |
| 11.45 AM - 12.00 PM  | 1570716181      | Batching Anonymous and Non-Anonymous Membership Proofs for Blockchain Applications  | Shihui Fu, Guiwen Luo and Guang Gong (University of Waterloo, Canada)  |
| 12.00 AM - 12.15 PM  | 1570716029      | Automatic Detection of Vehicle Congestion by Using Roadside Unit  | Zainab Abood (Altinbas University, Turkey)   |
| 12.15 PM -12.30 PM   | 1570715560      | Improvement of Verbal and Non-Verbal Communication Skills of Children With Autism Spectrum Disorder Using Human Robot Interaction | SK Adif Farhan, Md. Nasfikur R. Khan, Mostafizur Rahman Swaron and Ramendra Narayan Saha Shukhon (Independent University, Bangladesh); Md. Mofijul Islam (Society for the Welfare of Autistic Children, Bangladesh); Md. Abdur Razzak (Independent University, Bangladesh) |

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# IEEE World AI IoT Congress - DAY 3:12th MAY 2021

## SESSION 13: ROBOTICS AND SECURITY FOR IoT

**SESSION CHAIR: MATIN PIROUZ (CALIFORNIA STATE UNIVERSITY, FRESNO)**

**SESSION TIME: 11.15 AM - 12:45 PM (DAY 3: 12TH MAY, 2021)**

**PARTICIPATION LINK: (Will be shared to attendees by email)**

| TIME ALLOTTED       | PAPER ID   | PAPER NAME  | AUTHORS WITH AFFILIATION & COUNTRY  |
|---------------------|------------|---|---|
| 11.15 AM - 11.30 AM | 1570716047 | Image Classification With Knowledge-Based Systems on the Edge for Real-Time Danger Avoidance in Robots              | Henri Hegemier and Jaimie Kelley (Denison University, USA)  |
| 11.30 AM - 11.45 AM | 1570716091 | Developing a Mobile Automated Medical Assistant for Hospitals in Bangladesh   | Md Abir Hossen (South Dakota School of Mines and Technology, USA); Ebad Zahir (American International University - Bangladesh, Bangladesh); H M Ata-e Rabbi (University of Alberta, USA); Md Ali Azam and Md Hafizur Rahman (South Dakota School of Mines and Technology, USA)        |
| 11.45 AM - 12.00 PM | 1570716198 | A Cost Effective UV Robot for Disinfecting Hospital and Factory Spaces for Covid-19 and Other Communicable Diseases | Md. Abdur Razzak and Md. Mushfiqur Rahman Saad (Independent University, Bangladesh)   |
| 12.00 AM - 12.15 PM | 1570712643 | A LoRa Enabled IoT-Based Air Quality Monitoring System for Smart City   | Kambombo Mtonga (University of Rwanda & African Center of Excellence in Internet of Things (ACEIoT), Rwanda); Evariste Twahirwa (University of Rwanda, Rwanda); Desire Ngabo (Hunan University, Rwanda & University of Rwanda, China); Santhi Kumaran (Copperbelt University, Zambia) |
| 12.15 PM -12.30 PM  | 1570712864 | Analysis of the Design Requirements for Remote Internet-Based E-Voting Systems                                      | Hosam Alamlah (University of North Carolina Wilmington & Louisiana Tech University, USA); Ali Abdullah S. AlQahtani (University of Wisconsin-Green Bay, USA)  |
| 12.30 PM - 12.45 PM | 1570715806 | A Protecting Mechanism Against Double Spending Attack in Blockchain Systems   | Zexi Xing and Zhengxin Chen (University of Nebraska at Omaha, USA)  |

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## IEEE World AI IoT Congress - DAY 4: 13th MAY 2021

| TIME               | NAME OF THE EVENT   | PARTICIPATION LINK                     |
|--------------------|---|--|
| 8.30 AM - 9.15 AM  | KEYNOTE ADDRESS BY <b>CHRIS PAXTON</b><br>(SENIOR ROBOTICS RESEARCH SCIENTIST, NVIDIA)<br><br>"CREATING REACTIVE ROBOT BEHAVIORS FOR REAL-WORLD APPLICATIONS" | (Will be shared to attendees by email) |
| 9.15 AM - 10.00 AM | KEYNOTE ADDRESS BY <b>HENG JI</b><br>(PROFESSOR, UNIVERSITY OF ILLINOIS, USA)<br><br>"INFORMATION SURGERY"  |  |
| 10.00 AM- 10:30 AM | ----- <b>BREAK</b> -----  |  |
|                    | <b>PARALLEL SESSIONS:</b>   |  |
| 10.30 AM-11:45 AM  | SESSION 14: IoT ENABLING TECHNOLOGIES   |  |
| 10.30 AM-11:45 PM  | SESSION 15: ARTIFICIAL INTELLIGENCE TOOLS & APPLICATIONS AND AUTOMATIC CONTROL  |  |
| 10.30 AM-11:45 PM  | SESSION 16: IoT ENABLING TECHNOLOGIES, SECURITY AND DATA MINING   |  |
| 10.30 AM-11:15 PM  | SESSION 17: IoT, DATA MINING AND CLOUD COMPUTING  |  |
| 11.45 AM-12:00 PM  | <b>VALEDICTORY SESSION</b>  |  |

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# IEEE World AI IoT Congress - DAY 4: 13th MAY 2021

| <b>SESSION 14: IoT ENABLING TECHNOLOGIES</b>                      |                 |   |   |
|---|-----------------|---|---|
| <b>SESSION CHAIR: JAIMIE KELLEY (DENISON UNIVERSITY, USA)</b>     |                 |   |   |
| <b>SESSION TIME: 10:30 AM - 11:45 AM (DAY 4: 13TH MAY, 2021)</b>  |                 |   |   |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b> |                 |   |   |
| <b>TIME ALLOTTED</b>  | <b>PAPER ID</b> | <b>PAPER NAME</b>   | <b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>   |
| 10.30 AM - 10.45 AM   | 1570712652      | Analysis of Smart Contract Abstraction in Decentralized Blockchain Based Stock Exchange           | Sashank Sridhar and Sowmya Sanagavarapu (Anna University, India)  |
| 10.45 AM - 11.00 AM   | 1570716148      | A Systematic Approach for Scheduling IoT Devices for Effective Load Balancing Based on Deep Sleep | Lahiru J Ekanayake and Ruwan D Nawarathna (Faculty of Science, University of Peradeniya, Sri Lanka); Saluka Kodituwakku, Roshan Yapa and Amalka J. Pinidiyaarachchi (University of Peradeniya, Sri Lanka) |
| 11.00 AM - 11.15 AM   | 1570712161      | Predictive Maintenance - Bridging Artificial Intelligence and IoT                                 | Gerasimos Samatas, Seraphim Moumgiakmas and George A Papakostas (International Hellenic University, Greece)   |
| 11.15 AM - 11.30 AM   | 1570710287      | Intelligent Mirai Malware Detection in IoT Devices  | Tarun Palla (California State University, USA); Shahab Tayeb (California State University, Fresno, USA)   |
| 11.30 AM - 11.45 AM   | 1570716210      | A Survey in Localization Techniques Used in Location-Based Access Control                         | Maha Almutairi and Shameek Bhattacharjee (Western Michigan University, USA)   |

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# IEEE World AI IoT Congress - DAY 4: 13th MAY 2021

| <b>SESSION 15: ARTIFICIAL INTELLIGENCE TOOLS, APPLICATIONS AND AUTOMATIC CONTROL</b> |                 |  |  |
|--|-----------------|--|--|
| <b>SESSION CHAIR : GUANG GONG (UNIVERSITY OF WATERLOO, CANADA)</b>                   |                 |  |  |
| <b>SESSION TIME: 10:30 AM - 11:45 AM (DAY 4: 13TH MAY, 2021)</b>                     |                 |  |  |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b>                    |                 |  |  |
| <b>TIME ALLOTTED</b>   | <b>PAPER ID</b> | <b>PAPER NAME</b>  | <b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>  |
| 10.30 AM - 10.45 AM  | 1570712874      | Aggregation of Sentiment Analysis Index With Hesitant Fuzzy Sets for Financial Time Series Forecasting                               | Breno Costa Dias (Universidade Federal de Minas Gerais, Brazil); Hossein Sadaei (Prospectiva Group, Brazil); Petronio Silva (Instituto Federal do Norte de Minas Gerais, Brazil); Frederico G Guimaraes (Universidade Federal de Minas Gerais, Brazil) |
| 10.45 AM - 11.00 AM  | 1570716247      | Controller Design and Robustness Analysis for Multi-Phase Wireless Power Transfer System Using H-Infinity Mixed Sensitivity Approach | Vishnu Mohan and Dariusz Czarkowski (New York University, USA)   |
| 11.00 AM - 11.15 AM  | 1570712701      | Multichannel Controller Synthesis for the Plant With Three Input and Two Output Channels Using Polynomial Matrix Decomposition       | Aleksandr Voevoda, Victor Shipagin and Vladislav Filushov (NSTU, Russia)   |
| 11.15 AM - 11.30 AM  | 1570713073      | Wireless Power Transfer by Highly Resonant Technique   | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)  |
| 11.30 AM - 11.45 AM  | 1570715873      | Decentralized Multitarget Tracking for UAV Swarm Using Approximate Dynamic Programming   | Md Ali Azam and Shawon Dey (South Dakota School of Mines and Technology, USA); Hans Mittelmann (Arizona State University, USA); Shankarachary Ragi (South Dakota School of Mines and Technology, USA)  |

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# IEEE World AI IoT Congress - DAY 4: 13th MAY 2021

## SESSION 16: IOT ENABLING TECHNOLOGIES, SECURITY AND DATA MINING

**SESSION CHAIR: EMAN ABDELFAH (RAMAPO COLLEGE OF NEW JERSEY, USA)**

**SESSION TIME: 10:30 AM - 11:45 AM (DAY 4: 13TH MAY, 2021)**

**PARTICIPATION LINK: (Will be shared to attendees by email)**

| TIME ALLOTTED       | PAPER ID   | PAPER NAME   | AUTHORS WITH AFFILIATION & COUNTRY   |
|---------------------|------------|--|--|
| 10.30 AM - 10.45 AM | 1570712878 | Applicability of IoT for Smart Agriculture: Challenges & Future Research Direction   | Ila Kaushik (GGSIPU Delhi, India); Nupur Prakash (GGS Indraprastha University Delhi, India)  |
| 10.45 AM - 11.00 AM | 1570712903 | First Enriched Legal Database in Bangladesh With Efficient Search Optimization and Data Visualization for Law Students and Lawyers | Mohammad Monirujjaman Khan (North South University & Queen Mary University of London, Bangladesh)  |
| 11.00 AM - 11.15 AM | 1570712392 | Regulatory Compliance Modelling Using Risk Management Techniques   | Steve Taylor, Mike SurrIDGE and Brian Pickering (University of Southampton, United Kingdom (Great Britain))  |
| 11.15 AM - 11.30 AM | 1570711104 | Zero-Effort Indoor Continuous Social Distancing Monitoring System  | Amber Honnef, Emily Sawall and Mohamed Mohamed (University of Wisconsin-Green Bay, USA); Ali Abdullah S. AlQahtani (University of Wisconsin-Green Bay, USA); Thamraa Alshayeb (University of Wisconsin Green Bay, USA) |
| 11.30 AM - 11.45 AM | 1570711725 | Improving the Relevancy of a Web Navigation Recommender System Using Categorization of Users' Experience                           | Ilan Granot and Ching-Seh Wu (San Jose State University, USA); Zvi Or-Bach (MonolithIC 3D, USA)  |

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# IEEE World AI IoT Congress - DAY 4: 13th MAY 2021

| <b>SESSION 17: IoT, DATA MINING AND CLOUD COMPUTING</b>           |                 |   |  |
|---|-----------------|---|--|
| <b>SESSION CHAIR: HONG YU (FITCHBURG STATE UNIVERSITY, USA)</b>   |                 |   |  |
| <b>SESSION TIME: 10:30 AM - 11:15 AM (DAY 4: 13TH MAY, 2021)</b>  |                 |   |  |
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b> |                 |   |  |
| <b>TIME ALLOTTED</b>  | <b>PAPER ID</b> | <b>PAPER NAME</b>                                   | <b>AUTHORS WITH AFFILIATION &amp; COUNTRY</b>  |
| 10:30 AM - 10:45 AM   | 1570715449      | Blind Attack Flaws in Adaptive Honeypot Strategies  | Muath Obaidat (City University of New York, USA)   |
| 10:45 AM - 11:00 AM   | 1570712921      | Women in AI: Barriers and Solutions                 | Mehdi Roopaei (University of Wisconsin-Platteville, USA); Justine Horst(University of Wisconsin-Platteville, USA); Emilee Klaas (1 University Plaza,Platteville, WI, USA); Gwen Foster (University of Wisconsin-Platteville,USA); Tammy J Salmon-Stephens (University of Wisconsin-Platteville,USA); Jodean E Grunow (University of Wisconsin-Platteville & University ofWisconsin-Madison, USA) |
| 11:00 AM - 11:15 AM   | 1570713129      | CR-LPWAN: Issues, Solutions and Research Directions | Koketso Keoagile Ntshabele (North West University, Mafikeng Campus, SouthAfrica); Bassey Isong (North-West University, South Africa); Adnan M. Abu-Mahfouz (CSIR NextGen Enterprises and Institutions, South Africa)   |

| <b>VALEDICTORY SESSION</b>  | <b>11.45 PM - 12.00 PM</b> |
|---|----------------------------|
| <b>PARTICIPATION LINK: (Will be shared to attendees by email)</b> |                            |

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