## Inaugural Session [10:00 AM – 11:30 AM]

<table>
<thead>
<tr>
<th>TIME</th>
<th>DETAILS</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00 AM - 10:00 AM</td>
<td>Registration with Tea/Coffee and Cookies [At Rear Foyer]</td>
</tr>
<tr>
<td>10:00 AM - 10:05 AM</td>
<td>Welcoming of Guests</td>
</tr>
<tr>
<td>10:05 AM - 10:10 AM</td>
<td>WELCOME ADDRESS [On Behalf of Conference Committee &amp; Editors]</td>
</tr>
<tr>
<td></td>
<td>By - Amit Joshi, Organising Secretary, Worlds4 2018</td>
</tr>
<tr>
<td>10:10 AM - 10:15 AM</td>
<td>ADDRESS BY SPECIAL INVITED GUEST</td>
</tr>
<tr>
<td></td>
<td>Peter Kent, Chief Executive Officer at UK Education India Ltd, United Kingdom</td>
</tr>
<tr>
<td>10:15 AM - 10:20 AM</td>
<td>ADDRESS BY INVITED GUEST</td>
</tr>
<tr>
<td></td>
<td>Aninda Bose, Senior Publishing Editor and part of Global Acquisition Team at Springer, Germany</td>
</tr>
<tr>
<td>10:20 AM - 10:25 AM</td>
<td>ADDRESS BY INVITED GUEST</td>
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<tr>
<td></td>
<td>Joao Manuel Rs Tavares, Associate Professor, Faculty of Engineering, University of Porto, Portugal</td>
</tr>
<tr>
<td>10:25 AM - 10:30 AM</td>
<td>ADDRESS BY INVITED GUEST</td>
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<tr>
<td></td>
<td>Malaya Nayak, Executive Director, IT Buzz Ltd, London, UK</td>
</tr>
<tr>
<td>10:30 AM - 10:40 AM</td>
<td>ADDRESS BY INAUGURAL GUEST AND SPEAKER</td>
</tr>
<tr>
<td></td>
<td>Mike Hinchey, Chair - IEEE UK and Ireland Section &amp; Director of Lero and Professor of Software Engineering at the University of Limerick, Ireland</td>
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<tr>
<td>Time</td>
<td>Event</td>
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<tr>
<td>10:40 AM - 10:45 AM</td>
<td>Presentation of token of remembrance to Guests</td>
</tr>
<tr>
<td>10:45 AM - 10:50 AM</td>
<td>VOTE OF APPRECIATION [ON BEHALF OF CONFERENCE COMMITTEE]</td>
</tr>
<tr>
<td></td>
<td>By - Niko Phillips, Group Director - International Active Learning - City of Oxford College</td>
</tr>
<tr>
<td></td>
<td>Conference Group Photograph [10:50 AM – 11:00 AM]</td>
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<tr>
<td>11:00 AM – 11:30 AM</td>
<td>Snacks Break (11:00 AM – 11:30 AM) [At – Rear Foyer]</td>
</tr>
<tr>
<td>11:30 AM – 12:00 PM</td>
<td>KEYNOTE ADDRESS</td>
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<tr>
<td></td>
<td>By - Jagdish Chand Bansal - South Asian University New Delhi, India &amp; Liverpool Hope University, UK</td>
</tr>
<tr>
<td>12:00 PM – 12:30 PM</td>
<td>KEYNOTE ADDRESS</td>
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<tr>
<td></td>
<td>By - MILAN TUBA - Singidunum University, Serbia</td>
</tr>
<tr>
<td>12:30 PM – 01:00 PM</td>
<td>KEYNOTE ADDRESS</td>
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<tr>
<td></td>
<td>By - Atulya Nagar - Dean of Science, Liverpool University, UK, London</td>
</tr>
<tr>
<td>01:00 PM – 01:30 PM</td>
<td>KEYNOTE ADDRESS</td>
</tr>
<tr>
<td></td>
<td>By - Aninda Bose - Senior Publishing Editor and part of Global Acquisition Team at Springer, Germany</td>
</tr>
<tr>
<td>01:30 PM – 01:40 PM</td>
<td>INVITED ADDRESS</td>
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<tr>
<td></td>
<td>By - Tariq Abdullah - Academic Lead Computing &amp; IT, University of DERBY, UK</td>
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<tr>
<td></td>
<td>Presentation of Token of Remembrance to Keynote Speakers / Guests</td>
</tr>
<tr>
<td>01:40 PM – 02:30 PM</td>
<td>NETWORKING LUNCH (01:40 PM – 02:30 PM) [At - Junction]</td>
</tr>
</tbody>
</table>
### WORLS4 2018 | BIOCOM 2018

#### 30th OCT. 2018  |  HOTEL HOLIDAY INN LONDON - REGENT'S PARK [ROOM – OXFORD]

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 02:30 PM – 03:15 PM | **KEYNOTE ADDRESS**  
By: Suresh Chandra Satapathy - Professor, Kalinga Institute of Industrial Technology, India |
| 03:15 PM – 04:00 PM | **RESEARCH ADDRESS**  
By - ATHANASIOS ANASTASIOU - National Technical University of Athens School of Electrical Engineering Biomedical Engineering Laboratory Athens, Greece.  
- Building for cognitive and social training personalized and intelligent accessible interfaces  
- Nutrition Buddy: a Childhood Obesity Serious Game  
- A cloud computing platform for the holistic approach to the needs of children and their families in natural disasters incidents |
| 04:00 PM – 04:30 PM | **KEYNOTE ADDRESS**  
By - Nilanjan Dey - Techno India College of Engineering, India |
| 04:30 PM – 05:00 PM | **INVITED ADDRESS**  
By - Vikrant Bhateja - SRMGPC, Uttar Pradesh, India |
| 05:00 PM – 05:10 PM | **CLOSING REMARKS FOR DAY 1 (05:00 PM - 05:10 PM)**  
By : Mihir Chauhan, Program Secretary, WorldS4 2018 |
| 05:10 PM – 05:30 PM | Networking Tea / Coffee [ At Rear Foyer ] |
31<sup>th</sup> OCT. 2018  |  HOTEL HOLIDAY INN LONDON - REGENT'S PARK

<table>
<thead>
<tr>
<th>TIME</th>
<th>Registration [ 09:30 AM – 10:15 AM ] With Networking Tea / Coffee [ At Rear Foyer ]</th>
</tr>
</thead>
</table>
| 10:15 AM – 11:00 AM   | KEYNOTE ADDRESS \[ Room - Cambridge \]  
Xin-She Yang - Middlesex University, London, UK. |
| 10:15 AM – 11:00 AM   | KEYNOTE ADDRESS \[ Room - Merton \]  
Joao Manuel Rs Tavares - Associate Professor, Faculty of Engineering, University of Porto, Portugal. |

<table>
<thead>
<tr>
<th>Time</th>
<th>Snacks Break (11:00 AM – 11:30 AM) [ At Rear Foyer ]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Session WS4 - 1</strong></td>
<td></td>
</tr>
</tbody>
</table>
**No. of Papers - 10**  
11:30 AM – 01:30 PM  
[ Room - Cambridge ]  
**Session Chair**  
J C Bansal, Niko Phillips  
**Interactive voice response server Voice Network administration using hidden markov model speech recognition system**  
Hamidi Mohamed, Satori Khalid (LIIAN, Department of Mathematics and Computer Science FSDM, USMBA)  
Satori Hassan, Zealouk Ouissam, Laaidi Naouar (IASCM Laboratory Faculty Pluridiciplinary Nador)  
**Country – Morocco**  
**A Proposal of Blockchain-based Electronic Voting System**  
Cosmas Krisna Adiputra, Rikard Hjort, Hiroyuki Sato (The University of Tokyo)  
**Country – Japan**  
**An efficient new cohesion indice based on the quality measure of association rules MGK**  
Hery Fr’ed’eric Rakotomalala, Andr’e Totohasina (University of Antsiranana)  
**Country – Madagascar**  
**Comparative Study of Popular Cryptographic Techniques**  
Sonika Dahiya, Ruchi Sharma (Delhi Technological University)  
**Country – India**  
(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)
Session WS4 - 1
No. of Papers - 10
11:30 AM – 01:30 PM
[ Room - Cambridge ]

Session Chair
J C Bansal, Niko Phillips

Logistics and Supply Chain Analytics: Benefits and Challenges
Ahmed Chakroun, Abdelali El Bouchti, Hassan Abbar (Institute for Forecasting and Futuristics)
Country – Morocco

Health Management for Sustainable Development
Andrei Reshetnikov, Julia Fedorova, Nadezhda Prisyazhnaya, Nina Shamshurina, Olga Kolesnichenko
(Institute of sociology, psychology and humanities, I.M. Sechenov First Moscow State Medical University)
Alexander Sotnik (Department of Development, Project My Health, CV PROTEK)
Country – Russia

News Credibility Measure Utilizing Ontologies & Semantic Weighing Schemes (NCMOSWS)
Tarek M Negm, Prof. Dr. Mohamed A. Rezqa, Prof. Dr. Abdel Fatah Hegazi
(Arab Academy for Science and Technology & Maritime Transport Cairo)
Country – Egypt

Network Optimization Through Traffic Patterns And Efficient Bandwidth Consumption In Large Dc
Kwang-man Ko (Sangji University), Adiah Qazi, Faisal Rehman, Tahir Maqsood, Saad Mustafa (Comsats University)
Yung-wey Chong (Universiti Sains Malaysia)
Country – Pakistan, South Korea, Malaysia

Training software apparatus for a plasma physics course
Alexander Chirtsov, Sergey Sychov (University ITMO), Mikushev Vladimir (Saint-Petersburg State University)
Country – Russia

IoT infrastructure secured by TLS level authentication and PKI identity system
Bogdan Oniga, Stefan Harsan Farr, Vasile Dadarlat (Department of Technology Identity Plus Cluj-Napoca)
Adrian Munteanu (ETRO Department Vrije Universiteit Brussel Brussels)
Country – Romania, Belgium

(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)
Low-Complexity Classification Algorithm to Identify Drivers' Stress using Electrodermal Activity (EDA) Measurements
Pamela Zontone, Antonio Aanni, Riccardo Bernardini, Alessandro Piras, Roberto Rinaldo (University of Udine)
Country – Italy

Bioinspired Approach to Inverse Kinematic Problem
Rami Alkhatib, Maher Sabbah, Mohamad O. Diab, Mohammad Taha, Khalid Salloum (Rafik Hariri University)
Country – Lebanon

3D Model of Blood Flow for Magnetohydrodynamics Study
Maher Sabbah, Houssam Salami, Jad Kozaily, Rami Alkhatib (Rafik Hariri University)
Country – Lebanon

Nonlinear Autoregressive Model Design and Optimization based on ANN for the Prediction of Chaotic Patterns in EEG Time Series
Lei Zhang (University of Regina)
Country – Canada

Using a coupled MDOF biodynamic model to study the effect of curvature of spine on lumbar spine compression under axial loads
Naveen Raj R, K Shankar (Mechanical engineering Department, IIT MADRAS)
Country – India

(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)
**Effect of reduced point NIR spectroscopy on glucose prediction error in human blood tissue**
Jivan Parab, M. Sequeira, R. S. Gad, G. M. Naik (Goa university)
*Country – India*

**Analysis of HD-sEMG signals using Channel Clustering Based on Time Domain Features For Functional Assessment with Ageing**
Swati Banerjee, Kiyoka Kinugawa (UPMC, Sobornne Universities)
Loubna Imrani, Jeremy Laforet, Sofiane Boudaoud (UTC)
*Country – France*

**Applied logics to develop ontology model of complex-structured domains: organic chemistry and biochemistry**
Karina A. Gulyaeva (Far Eastern Federal University)
Irina L. Artemieva (Far Eastern Federal University)
*Country – Russia*

**ARCHAIN: A Novel Blockchain Based Archival System**
Albert Galiev, Nikolai Prokopyev, Shamil Ishmukhametov, Evgeni Stolov, Rustam Latypov, Ilya Vlasov
(Department of System Analysis and Information Technologies Kazan Federal University Kazan)
*Country – Russia*

**Continuous user authentication in mobile phone browser based on gesture characteristics**
Artem V. Iuzbashev, Alexander I. Filippov, Konstantin G. Kogos
(National Research Nuclear University MEPhI)
*Country – Russia*

(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)
A Review of Nonlinear Image-Denoising Techniques  
Ayman M. Abdalla, Mohammed S. Osman, Hanadi AlShawabkah, Osaид Rumman, Mutaz Mherat  
(Al-Zaytoonah University of Jordan)  
*Country – Jordan*

Ajib Setyo Arifin, Rafifa Maricha Putri Erisa, Muhammad Suryanegara (Faculty of Engineering Universitas Indonesia)  
*Country – Indonesia*

Blockchain-Based Smart Contracts for Sustainable Power Investments  
Paweł K. Poplawski, Krzysztof Szczypiorski (University of Technology Warsaw)  
*Country – Poland*

Decentralized e-Health Architecture for Boosting Healthcare Analytics  
Igor Kotsiuba (National Academy of Sciences of Ukraine Kyiv)  
Inna Skarga-Bandurova, Artem Velykzhnin, Yury Yanovich (Volodymyr Dahl East Ukrainian National University Severodonetsk)  
Yuriy Dyachenko, Viacheslav Zhygulin (Bitfury)  
*Country – Ukraine*

State of the Art in Artificial Immune-Based Intrusion Detection Systems for Smart Grids  
Richard Pump, Volker Ahlers, Arne Koschel (University of Applied Sciences and Arts Hanover)  
*Country – Germany*

Performance Analysis of Petal Ant Routing (PAR) and Dynamic Source Routing (DSR) in MANET using Network Simulator (Ns2)  
Ashoka S B (Maharani’s Science College for Women), Manjunath M (R V College of Engineering)  
Hanumanthappa M (Bangalore University)  
*Country – India*

(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)
### Session WS4 – 2
**No. of Papers - 10**  
**02:30 PM – 04:30 PM**  
[ Room Cambridge ]

**Session Chair**  
S C Satapathy, Peter Kent

<table>
<thead>
<tr>
<th>Title</th>
<th>Authors</th>
<th>Country</th>
</tr>
</thead>
<tbody>
<tr>
<td>Smart Contract based Multi-Party Computation with Privacy Preserving and Settlement Addressed</td>
<td>Xin Pei, Liang Sun, Xuefeng Li, Kaiyan Zheng, Xiaochuan Wu</td>
<td>China</td>
</tr>
<tr>
<td>The Use of 5G Mobile Technology in Creating a Sustainable Society: A Systems Engineering Approach</td>
<td>Muhammad Suryanegara, Ajib Setyo Arifin, Muhamad Asvial, Kalamullah Ramli</td>
<td>Indonesia</td>
</tr>
<tr>
<td>Intentional Collisions for Preventing Illegal Overhearing by Eavesdropper Node in Wireless Sensor Networks</td>
<td>Masahiro Okuri, Hiroaki Higaki</td>
<td>Japan</td>
</tr>
<tr>
<td>Security Improvement of Common-Key Cryptographic Communication by Mixture of Fake Plain-Texts</td>
<td>Masahiro Okuri, Hiroaki Higaki</td>
<td>Japan</td>
</tr>
<tr>
<td>Industrial Cloud Monitoring System based on Internet of Things</td>
<td>Ibtesam R. K. Al-Saedi (University of Technology (UoT))</td>
<td>Iraq</td>
</tr>
<tr>
<td>Conceptual Smart City KPI Model: A System Dynamics Modelling Approach</td>
<td>Mohammed Agbali, Claudia Trillo, Terrence Fernando, Isa Ali Ibrahim</td>
<td>United Kingdom, Nigeria, Turkey</td>
</tr>
</tbody>
</table>

(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)
| Session WS4 – 3 | No. of Papers - 10 | 02:30 PM – 04:30 PM | Room - Merton | Session Chair | Xin-She Yang, Vikrant Bhateja |
| Modern military ATM systems and their optimalization in integrated civil and military ATC | Ing. Roman, Ing. Ondrej Marik (University of Pardubice) | Bc. Tomas Marik (Air Force and Air Defence Military Technical Institute) | Country – Czech Republic |
| Combining Auto Encoders and One Class Support Vectors Machine for Fraudulant Credit Card Transactions Detection | Mohamad Jeragh (Computer Engineering Department Kuwait University) | Mousa AlSulaimi (Information Technology Department Boubyan Bank) | Country – Kuwait |
| Reinforcement Learning for Intelligent Penetration Testing | Mohamed C. GHANEM, Thomas M. CHEN (Research Centre for Systems and Control City, University of London) | | Country – United Kingdom |
| Efficient Fault Prediction Using Exploratory and Causal Techniques | Deepak Sharma, Pravin Chandra (Guru Gobind Singh Indraprastha University) | | Country – India |
| Teeth Classification Based on Extreme Learning Machine | Siyuan Lu, Zhihai Lu, Jingyuan Yang (Nanjing Normal University), Zhi Li (Jinling Hospital), William Wang (Waynesburg University) | | Country – China |
| A Catfish Effect based Team Recommendation System | Zhaolong Ning (Nanjing University) Xing Zeng, Manqing Fu, Teshome Megera Bekele, Xiaojie Wang (Dalian University of Technology) | | Country – China |

(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)
Access Privilege Elevation and Revocation in Collusion-Resistant Cloud Access Control
Ruqayah R. Al-Dahhan (University of Anbar), Qi Shi, Gyu Myoung Lee, Kashif Kifayat (Liverpool John Moores University)
Country – United Kingdom, Iraq

A Proposed Methodology for Cyber Security Mechanism according to the most popular detected attacks for University Web Application
Abdel Karim Kassem (University of Angers Angers), Abd El Salam Al Hajjar, Bassam DAYA (Lebanese University Saida)
Pierre Chauvet (Université Catholique de l’Ouest Angers), Pravin Chandra (Guru Gobind Singh Indraprastha University)
Country – France, Lebanon

Securely connecting IoT devices with LoRaWAN
Alexander Gladisch, Simon Rietschel (T-Systems Multimedia Solutions GmbH Rostock)
Thomas Mundtx, Johann Bauerz, Johannes Goltz, Simeon Wiedenmannk (University of Rostock)
Country – Germany

Accelerometer–Based Joint User-Device Clone- Resistant Identity
Saleh Mulhem, Wael Adi (Technical University of Braunschweig), Ahmad Abadleh (Mutah University)
Country – Germany, Jordan

Development of a Generic Secure Framework for Universal Device interactions in IoT of Fifth Generation Networks
Viswanatha Reddy Allugunti, Elango NM (V.I.T University)
Country – India

A Secure Cloud Adoption Framework (SCAF) for the Namibian government information technology departments
Eunike Ndahambelela Nghihalwa, Fungai Bhunu Shava (Namibia University of Science and Technology)
Country – Namibia

(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)
### Session WS4 - 4

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
</tr>
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</table>
| 02:30 PM – 04:30 PM| **Cloud Service Broker based Quality Metrics Integration Model for Mobile Environment**  
                     Young-Rok Shin, A-Young Son, Hyeok Kyun Jo, Eui-Nam Huh (Kyung Hee University)  
                     **Country – Republic of Korea**                                                  |
| 04:45 PM - 05:00 PM| **Energy efficient VM placement scheme based on Fuzzy-AHP system for sustainable cloud computing**  
                     A-Young Son, Yeon Soo Lim, Eui-Nam Huh (Kyung Hee University)  
                     **Country – South Korea**                                                     |

**CERTIFICATE DISTRIBUTION & CONFERENCE CLOSING (04:30 PM - 04:45 PM)**

By: Amit Joshi, Organizing Secretary, WS4 2018 [ Room – Cambridge ]

### Networking Tea / Coffee [ At Rear Foyer ]

(Each Presenter will get 10 minutes for presentation and 2 minutes for Q-A)