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# Part 1 Conference Schedule

## Friday, October 18, 2019

*1F, Kitakyushu International Conference Center*

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<th>Time</th>
<th>Activity</th>
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<tbody>
<tr>
<td>09:00-18:00</td>
<td>Conference Registration</td>
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</tbody>
</table>

Notes: Please inform us your paper ID when you register.

## Saturday Morning, October 19, 2019

*3F, Conference Room 32*

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
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</table>
| 09:10-09:20   | **WELCOME SPEECH**<br>
                *Prof. Qixin Guo, Department of Electrical and Electronic Engineering,*<br>
                *Director of Synchrotron Light Application Center, Saga University, Japan* |
| 09:20-10:00   | **Keynote Speech 1:** Deep Learning and a New Approach for Machine Learning<br>
                *Prof. James Ting-Ho Lo, Department of Mathematics and Statistics,*<br>
                *University of Maryland, USA* |
| 10:00-10:40   | **Keynote Speech 2:** Deep Learning Platform for B5G Mobile Network<br>
                *Prof. Han-Chieh Chao, National Dong Hwa University, Taiwan* |
| 10:40-10:50   | **GROUP PHOTOGRAPH**                                                                         |
| 10:50-11:10   | **COFFEE BREAK**                                                                             |
| 11:10-11:50   | **Keynote Speech 3:** X-raying Non-trivial Spin Textures-Recent Achievements and Future Opportunities<br>
                *Dr. Peter Fischer, IEEE Fellow, Lawrence Berkeley National Laboratory, USA* |

## Saturday Afternoon and Evening, October 19, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00-13:00</td>
<td><strong>LUNCH (BENTO)</strong>&lt;br&gt; 3F, Conference Room 32</td>
</tr>
<tr>
<td>14:00-18:05</td>
<td><strong>Oral Session 1:</strong> Electronics Technology and Electronic Devices&lt;br&gt; 3F, Conference Room 32</td>
</tr>
</tbody>
</table>
| 18:05-19:00   | **DINNER(BENTO)**                               
                *3F, Conference Room 32* |
### Sunday, October 20, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Area</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-12:00</td>
<td><strong>Oral Session 2: Artificial Intelligence, Multimedia and Communications</strong></td>
<td>3F, Conference Room 32</td>
</tr>
<tr>
<td>08:30-11:30</td>
<td><strong>Oral Session 3: Control and Algorithm</strong></td>
<td>3F, Conference Room 33</td>
</tr>
<tr>
<td>12:00-13:00</td>
<td><strong>LUNCH (BENTO)</strong></td>
<td>3F, Conference Room 32</td>
</tr>
<tr>
<td>14:00-17:10</td>
<td><strong>Oral Session 4: Networks and Information Security</strong></td>
<td>3F, Conference Room 33</td>
</tr>
<tr>
<td>18:00</td>
<td><strong>Gather and Walk to RIHGA Royal Hotel Kokura</strong></td>
<td>1F, Lounge of Kitakyushu International Conference Center</td>
</tr>
<tr>
<td>18:30-19:00</td>
<td><strong>BEST ORAL AWARDING</strong></td>
<td>3F, Empire Room, RIHGA Royal Hotel Kokura</td>
</tr>
<tr>
<td>19:00-20:30</td>
<td><strong>WELCOME BANQUET</strong></td>
<td>3F, Empire Room, RIHGA Royal Hotel Kokura</td>
</tr>
</tbody>
</table>

### Monday, October 21, 2019

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Area</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-12:00</td>
<td><strong>Poster Session</strong></td>
<td>1F, Conference Room 11 (Kitakyushu International Conference Center)</td>
</tr>
</tbody>
</table>
Part II Invited Keynote Speeches

Keynote Speech 1: Deep Learning and a New Approach for Machine Learning

Speaker: Prof. James Ting-Ho Lo
Department of Mathematics and Statistics, University of Maryland, USA

Bio: Dr. James Ting-Ho Lo is a Professor of Mathematics and Statistics of University of Maryland Baltimore County. He obtained a B.S. and Ph.D. degree from National Taiwan University and University of Southern California respectively. His research interests have included optimal filtering, system control and identification; and machine learning. In 1992, he developed neural filtering, which solved the long-standing notorious problem of optimal nonlinear filtering in its most general setting and obtained a best paper award. Subsequently, he developed adaptive, accommodative and/or robust neural networks for system identification, control and filtering. He has been developing a convexification method for avoiding nonglobal local minima in training deep neural networks, which is ready for application and is nearing a complete solution of the long-standing notorious "local minimum problem". In recent years, Dr. Lo has also been developing a low-order model of biological neural networks. It is a logically coherent and computationally feasible model integrating axonal/dendritic trees, synapses, spiking/nonspiking somas, unsupervised/supervised learning mechanisms, a maximal generalization scheme into a learning machine. The low-order model explains mathematically for the first time how the biological neural networks encode, learn, memorize, recall and generalize.

Abstract of the speech: A basis of AI is machine learning; whose state of the art is mainly the highly publicized deep learning. Due to its superior performances in visual recognition, deep learning machines have had a wide range of impressive applications. However, its development for higher level cognitive computing has been stagnant. In this talk, some fundamental shortcomings of deep learning will be examined in connection with big data. A computational model of biological neural networks will be introduced. It provides a logically coherent explanation of how the brain encodes, learns, memorizes, recalls and generalizes. Being used as a learning machine, the computational model can perform real-time, photographic, hierarchical and unsupervised learning.
Keynote Speech 2: Deep Learning Platform for B5G Mobile Network

Speaker: Prof. Han-Chieh Chao  
National Dong Hwa University, Taiwan

Bio: Han-Chieh Chao received his M.S. and Ph.D. degrees in Electrical Engineering from Purdue University, West Lafayette, Indiana, in 1989 and 1993, respectively. He is currently a professor with the Department of Electrical Engineering, National Dong Hwa University, where he also serves as president. He is also with the Department of Computer Science and Information Engineering, National Ilan University, Taiwan. He was the Director of the Computer Center for Ministry of Education Taiwan from September 2008 to July 2010. His research interests include IPv6, Cross-Layer Design, Cloud Computing, IoT, and 5G Mobile Networks. He has authored or co-authored 4 books and has published about 400 refereed professional research papers. He has completed more than 150 MSEE thesis students and 11 Ph.D. students. Dr. Chao has been invited frequently to give talks at national and international conferences and research organizations. He serves as the Editor-in-Chief for the Institution of Engineering and Technology Networks, the Journal of Internet Technology, the International Journal of Internet Protocol Technology, and the International Journal of Ad Hoc and Ubiquitous Computing. He is a Fellow of IET (IEE) and a Chartered Fellow of the British Computer Society. Due to Dr. Chao’s contribution of suburban ICT education, he has been awarded the US President's Lifetime Achievement Award and International Albert Schweitzer Foundation Human Contribution Award in 2016.

Abstract of the speech: The 3G and 4G mobile communications had been developed for many years. The 5G mobile communication is scheduled to be launched in 2020. In the future, a wireless network is of various size of cells and different type of communication technologies, forming a special architecture of Heterogeneous Networks (HetNet). Under the complex network architecture, interference and handover problems are critical challenges in access network. How to efficiently manage small cells and to choose an adequate access mechanism for the better quality of service is a vital research issue. Traditional network architecture can no longer support existing network requirements. It is necessary to develop a novel network architecture. Therefore, this keynote speech will share a solution of deep learning-based B5G mobile network which can enhance and improve communication performance through combing some specific technologies, e.g., deep learning, fog computing, cloud computing, cloud radio access network (C-RAN) and fog radio access network (F-RAN).
Keynote Speech 3: X-raying Non-trivial Spin Textures—Recent Achievements and Future Opportunities

Speaker: Dr. Peter Fischer
IEEE Fellow, Lawrence Berkeley National Laboratory, USA

Bio: Dr. Peter Fischer received his PhD in Physics (Dr.rer.nat.) from the Technical University in Munich, Germany in 1993 on pioneering work with X-ray magnetic circular dichroism in rare earth systems and his Habilitation from the University in Würzburg, Germany in 2000 based on his pioneering work on Magnetic Soft X-ray microscopy. Since 2004 he is with the Materials Sciences Division at Lawrence Berkeley National Laboratory in Berkeley CA. He is Senior Staff Scientist and Principal Investigator in the Non-Equilibrium Magnetic Materials Program and currently also Deputy Division Director at MSD. His research program is focused on the use of polarized synchrotron radiation for the study of fundamental problems in magnetism. Since 2014 he is also Adjunct Professor for Physics at the University of California in Santa Cruz. Dr. Fischer has published more than 200 peer reviewed papers and has given about 300 invited presentations at national and international conferences. He was nominated as Distinguished Lecturer of the IEEE Magnetics Society in 2011. For his achievements of “hitting the 10nm resolution milestone with soft X-ray microscopy” he received the Klaus Halbach Award at the Advanced Light Source in 2010. Dr. Fischer is Fellow of the APS and IEEE.

Abstract of the speech: Spin textures and their dynamics hold the key to understand and control the properties, behavior and functionalities of novel magnetic materials, which can impact the speed, size and energy efficiency of spin driven technologies. Advanced characterization tools that provide magnetic sensitivity to spin textures at high spatial resolution, ultimately at buried interfaces and in all three dimensions [1], and at high temporal resolution to capture the spin dynamics across scales, are therefore of large scientific interest. Magnetic soft X-ray spectro-microscopies [2] provide unique characterization opportunities to study the statics and dynamics of spin textures in magnetic materials combining X-ray magnetic circular dichroism (X-MCD) as element specific, quantifiable magnetic contrast mechanism with spatial and temporal resolutions down to fundamental magnetic length, time, and energy scales. Current developments of x-ray sources aim to increase dramatically the coherence of x-rays opening the path to new techniques, such as ptychography [3] or x-ray photo-correlation spectroscopy (XPCS) [4] that allow unprecedented studies of nanoscale heterogeneity, complexity, and fluctuations. I will review recent achievements and future opportunities with magnetic x-ray spectro-microscopies. Examples will include the static properties and dynamic behavior of magnetic skyrmions [5,6] textures with potential application to novel magnetic logic and storage devices, as well as results from an XPCS study at LCLS with a novel 2-pulse scheme that allowed to discover an unexpected and drastic change of the correlation times in nanoscale spin fluctuations near phase
boundaries, i.e., in the skyrmion phase, and near the boundary with the stripe phase of a multilayered Fe/Gd system [4].

Acknowledgement

This work was supported by the U.S. Department of Energy, Office of Science, Office of Basic Energy Sciences, Materials Sciences and Engineering Division Contract No. DE-AC02-05-CH1123 in the Non-Equilibrium Magnetic Materials Program (MSMAG).

References

Part III Oral Sessions

Oral Presentation Guidelines

Devices Provided by the Conference Organizer:

➢ Laptops (with MS-Office & Adobe Reader)
➢ Projectors & Screen
➢ Laser Sticks
➢ Microphones

Materials Provided by the Oral Presenters:

➢ PowerPoint or PDF file

For presenters who don’t send the PowerPoint to the Conference Secretary, please have your presentation ready in a memory stick, and save it in the laptop of your corresponding session about 15 minutes before the start time. You also need to tell the Session Chair (before the start of your Session) that you are going to present your talk.

Best Oral Presentations Selection Guidelines

Selection Criteria:

ONE best presentation will be selected from EACH session based on the following items:

➢ Research Quality
➢ Presentation Performance
➢ Presentation Language
➢ Interaction with Listeners
➢ PowerPoint Design

Selection Procedure:

➢ An assessment sheet will be delivered to listeners before the session;
➢ When the session is finished, each listener is required to fill the sheet (he/she can vote for two excellent presentations) and give it to the Session Chair after the session;
➢ The Session Chair will count the votes from each presentation and select one best oral presentation with more votes. If there is a tie, the Session Chair will make the final decision.
### Nature of the Award

This award consists of free registration to the next conference and a certificate; The awards will be given during the Awarding Banquet November 21.

### Oral Session 1: Electronics Technology and Electronic Devices

**Session Chair:** Prof. Shanguo Huang, Beijing University of Posts and Telecommunications, China

**Time:** 14:00-18:05, Saturday, October 19, 2019  
**Location:** 3F, Conference Room 32

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper ID</th>
<th>Title</th>
<th>Speaker and Affiliation</th>
</tr>
</thead>
<tbody>
<tr>
<td>14:00-14:20</td>
<td>CNT2471</td>
<td>Characteristics of Bismuth-based Frequency Comb Laser</td>
<td>Assoc. Prof. Yutaka Fukuchi, Tokyo University of Science, Japan</td>
</tr>
<tr>
<td>14:20-14:40</td>
<td>CNT2523</td>
<td>High Pressure Influences on Properties of Ga2O3 Based Films</td>
<td>Prof. Fabi Zhang, Guilin University of Electronic Technology, China</td>
</tr>
<tr>
<td>14:40-15:00</td>
<td>CNT2540</td>
<td>Design Techniques for Innovative Notch Filters</td>
<td>Prof. Rohini Deshpande, REVA University, India</td>
</tr>
<tr>
<td>15:00-15:20</td>
<td>CNT2554</td>
<td>Epitaxial Growth of Gallium Oxides and Solar Blind Ultraviolet Photodetectors</td>
<td>Prof. Weihua Tang, Beijing University of Posts and Telecommunications, China</td>
</tr>
<tr>
<td>15:20-15:40</td>
<td>CNT2555</td>
<td>Tailoring the Photoelectric Properties of Epitaxial β-Ga2O3 Thin Films Through Lattice Mismatch and Crystal Orientation</td>
<td>Assoc. Prof. Zhenping Wu, Beijing University of Posts and Telecommunications, China</td>
</tr>
<tr>
<td>15:40-16:00</td>
<td>CNT2556</td>
<td>Cost-efficient VNF Placement and Scheduling in Optical Datacenter Networks</td>
<td>Prof. Shanguo Huang, Beijing University of Posts and Telecommunications, China</td>
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<tr>
<th>Time</th>
<th>Paper ID</th>
<th>Title</th>
<th>Speaker and Affiliation</th>
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<tbody>
<tr>
<td>16:00-16:15</td>
<td></td>
<td><strong>COFFEE BREAK</strong></td>
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<tr>
<td>16:15-16:35</td>
<td>CNT2557</td>
<td>Two-dimensional Nanomaterial Fiber Laser</td>
<td>Assoc. Prof. Wenjun Liu, Beijing University of Posts and Telecommunications, China</td>
</tr>
<tr>
<td>16:35-16:55</td>
<td>CNT2558</td>
<td>Anodic Aluminum Oxide Based Self-growth Nanotechnology and Its Applications in Optoelectronics</td>
<td>Assoc. Prof. Tangyou Sun, Guilin University of Electronic Technology, China</td>
</tr>
<tr>
<td>16:55-17:15</td>
<td>CNT2561</td>
<td>Interface Properties of Buried InGaAs Channel MOSFET with InP Barrier Layer</td>
<td>Prof. Haiou Li, Guilin University of Electronic Technology, China</td>
</tr>
<tr>
<td>17:15-17:35</td>
<td>CNT2626</td>
<td>Development of Novel Semiconductor Materials Using Process of High-pressure Torsion</td>
<td>Dr. Yoshifumi Ikoma, Kyushu University, Japan</td>
</tr>
<tr>
<td>Time</td>
<td>Session/Activity</td>
<td>Speaker/Institution</td>
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<tr>
<td>17:35-17:50</td>
<td>Consideration of Some Aspects of Designing with the Digital to Analogue Converter</td>
<td>Dr. Bernard Tonderayi Mangara, Central University of Technology, South Africa</td>
<td></td>
</tr>
<tr>
<td>17:50-18:05</td>
<td>Recent Progress in GaN-on-Si Based Fully-vertical p-n Diodes</td>
<td>Dr. Debaleen Biswas, Research Center for Nano Devices and Advanced Materials Nagoya Institute of Technology, Japan</td>
<td></td>
</tr>
</tbody>
</table>

**Oral Session 2: Artificial Intelligence, Multimedia and Communications**

*Session Chair: Assoc. Prof. Guolin Sun, University of Electronic Science and Technology of China, China*

**Time:** 08:30-12:00, Sunday, October 20th, 2019  
**Location:** 3F, Conference Room 32

<table>
<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
<th>Speaker/Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:30-08:50</td>
<td>Tunable Optical OFDM Sub-carrier Channel Demultiplexer Utilizing Time Lens-based Optical Fourier Transform</td>
<td>Prof. Koichi Takiguchi, Ritsumeikan University, Japan</td>
</tr>
<tr>
<td>08:50-09:10</td>
<td>3D Visual Communications</td>
<td>Prof. Toshiaki Fujii, Nagoya University, Japan</td>
</tr>
<tr>
<td>09:10-09:30</td>
<td>Spectral Analysis for Bone-conducted Speech</td>
<td>Prof. Tetsuya Shimamura, Saitama University, Japan</td>
</tr>
<tr>
<td>09:30-09:50</td>
<td>Advance Algorithms of Video Processing on Embedded Hardware Board for Video Content Analysis and Real Time Application in Robotics</td>
<td>Prof. Jharna Majumdar, Nitte Meenakshi Institute of Technology, India</td>
</tr>
<tr>
<td>09:50-10:10</td>
<td>An Evacuation Support System Using Multi-Agent System Based on Ad Hoc Communications</td>
<td>Assoc. Prof. Yasushi Kambayashi, Nippon Institute of Technology, Japan</td>
</tr>
</tbody>
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**COFFEE BREAK**

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<thead>
<tr>
<th>Time</th>
<th>Session/Activity</th>
<th>Speaker/Institution</th>
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<tbody>
<tr>
<td>10:30-10:50</td>
<td>Resource Slicing and Customization for Heterogeneous Traffics in Virtualized Radio Access Network with Deep Reinforcement Learning</td>
<td>Assoc. Prof. Guolin Sun, University of Electronic Science and Technology of China, China</td>
</tr>
<tr>
<td>10:50-11:10</td>
<td>Role of Artificial Intelligence in Industry 4.0</td>
<td>Prof. Meenakshi Sumeet Arya, SRM Institute of Science and Technology, Chennai, India</td>
</tr>
<tr>
<td>11:10-11:30</td>
<td>Fiber Interferometers Fabricated with Femtosecond Laser</td>
<td>Prof. Xuewen Shu, Huazhong University of Science and Technology, China</td>
</tr>
</tbody>
</table>
Convex Programming for Nonideal Antenna Array Synthesis Based on Interval Analysis  
Assoc. Prof. Ying Zhang, University of Electronic Science and Technology of China, China

Nonblocking Properties of Three-stage Clos Networks Composed of Crossbar Switch Elements with an Extra Set of Inputs and Outputs  
Mr. Koloko Labson, Akita University, Japan

Oral Session 3: Control and Algorithm

Session Chair: Dr. Chong Ong, Intel, Canada

Time: 08:30-11:30 Sunday, October 20th, 2019  
Location: 3F, Conference Room 33

08:30-08:50  CNT2461 (Invited Talk)  
The Validation Method for Simulation Models with Iteration Operation  
Assoc. Prof. Ke Fang, Harbin Institute of Technology, China

08:50-09:10  CNT2498 (Invited Talk)  
Applications for Defect and Anomaly Detections Using Convolutional Neural Networks, Support Vector Machines and Frequency Analysis  
Prof. Fusaomi Nagata, Sanyo-Onoda City University, Japan

09:09:30  CNT2507 (Invited Talk)  
A Novel Denoising Algorithm for Power Quality Disturbance Based on Variational Mode Decomposition  
Prof. Kaicheng Li, Huazhong University of Science and Technology, China

09:30-09:50  CNT2546 (Invited Talk)  
An Outlier Detection Algorithm Based on Differential Privacy  
Assoc. Prof. Zhaoyu Shou, Guilin University of Electronic Technology, China

09:50-10:05  CNT2483  
Flash Memory Channel Estimation for Improved Decoding Performance of LDPC Codes  
Dr. Chong Ong, Intel, Canada

10:05-10:25  
COFFEE BREAK

10:25-10:40  CNT2562  
Design of a Novel Fractional Order Sliding Mode Control for Hypersonic Vehicle Attitude Control  
Ms. Weijie Bai, Beijing Institute of Technology, China

10:40-10:55  CNT2550  
Computational Verb Theory Based Approach for Sensorial Linguistics Retrieval from Natural Texts  
Dr. Azeddin Rhazi, Cady Ayyad University, Morocco
<table>
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<tr>
<th>Time</th>
<th>Code</th>
<th>Title</th>
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</table>
| 10:55-11:10  | CNT2627 | Design for a Lower Limbs Gait Rehabilitation System Based on Regression Analysis  
                      *Dr. Jiaxing Lu, Stevens Institute of Technology, USA* |
| 11:10-11:30  | CNT2606 | Selection of the Best Model for Predication of CO₂ Towards Smart Air Pollution Monitoring  
                      *Dr. Jyoti Gautam, JSS Academy of Technical Education, India*  |
|              |         | **Oral Session 4: Networks and Information Security**  |
|              |         | *Session Chair: Prof. Meenakshi Sumeet Arya, SRM Institute of Science and Technology, Chennai, India*  |
|              |         | Time: 14:00-17:10, Sunday, October 20th, 2019  |
|              |         | Location: 3F, Conference Room 3  |
| 14:00-14:20  | CNT2500 | Diffusion Approximation as a Tool in Computer Networks Performance Evaluation  
                      *Prof. Tadeusz Czachorski, Institute of Theoretical and Applied Informatics  
                      Polish Academy of Sciences, Poland*  |
| 14:20-14:40  | CNT2524 | An Information Security Management Approach for an Electoral Process in Ecuador  
                      *Dr. Segundo Moisés Toapanta Toapanta, Salesian Polytechnic University of  
                      Ecuador, Ecuador*  |
| 14:40-14:55  | CNT2482 | Relative Wireless Positioning for Multiple Client Devices Using Delta Triangulation  
                      *Prof. Marat Zhanikeev, Tokyo University of Sciencee, Japan*  |
| 14:55-15:10  | CNT2530 | Cognitive CAPTCHA Based on Perceptual Abilities  
                      *Prof. Marek R. Ogiela, AGH University of Science and Technology, Poland*  |
| 15:10-15:25  | CNT2535 | A Method for Acquiring Network Information from Linux Memory Image in SDN  
                      *Research Assoc. Shumian Yang, Shandong Computer Science Center (National Supercomputer Center in Jinan), China*  |
| 15:25-15:40  |         | **COFFEE BREAK**  |
| 15:40-15:55  | CNT2559 | Authentication and Key Distribution Scheme for Two-tiered IoT Based on PUF  
                      *Dr. Yanan Liu, Jinling Institute of Technology, China*  |
| 15:55-16:10  | CNT2618 | Infrared Dim and Small Target Detection Based on Spatio-temporal Spectral Saliency  
                      *Assoc. Prof. Kai Zhang, Northwestern Polytechnical University, China*  |
<table>
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<tr>
<th>Time</th>
<th>Session ID</th>
<th>Title</th>
<th>Presenter and Institution</th>
</tr>
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<tbody>
<tr>
<td>16:10-16:25</td>
<td>CNT2619</td>
<td>Secure Virtualization Environment Based on Advanced Memory Introspection</td>
<td>Assoc. Prof. Shuhui Zhang, Shandong Computer Science Center (National Supercomputer Center in Jinan), China</td>
</tr>
<tr>
<td>16:25-16:40</td>
<td>CNT2495</td>
<td>A Novel Secondary User Selection-based Cooperative Spectrum Sensing Scheme for Cognitive Radio Networks</td>
<td>Mr. Lin Hu, University of Electronic Science and Technology of China, China</td>
</tr>
<tr>
<td>16:40-16:55</td>
<td>CNT2467</td>
<td>Gas Source Parameters Estimation and Localization with Gaussian Mixture Filtering Method in Sensor Networks</td>
<td>Assoc. Prof. Yong Zhang, Tianjin University of Commerce, China</td>
</tr>
<tr>
<td>16:55-17:10</td>
<td>CNT2515</td>
<td>Truther Framework: An Award-winning Collaboration Platform to Verify Information Authenticity</td>
<td>Dr. Alfian Akbar Gozali, Waseda University, Japan</td>
</tr>
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</table>
Part IV Poster Session

Poster Presentation Guidelines

Materials Provided by the Conference Organizer:
- Display Boards (594mm wide × 841mm long)
- pushpin

Materials Provided by the Presenters:
- Home-made Posters

Requirement for the Posters:
- Material: not limited
- Size: A1 size portrait (594mm wide × 841mm long) or similar
- Content: for demonstration of the presenter’s paper

Requirement for the Presenters:
- Stand beside his/her Poster through the Session, and discuss with the readers about his/her paper

Time:
- Oct. 21, 09:00-12:00

Location:
- 1F, Conference Room 11 (Kitakyushu International Conference Center)

List of Posters

| CNT2462   | The Waveform Generator and Monitor Based on FPGA & DSP for the Pulsed Power Supply  
|           | Prof. Li Shen, Institute of High Energy Physics, China |
| CNT2519   | Indoor RF Signal Propagation and Attenuation Prediction Hybrid Modelling and WLAN Case Study Simulation  
|           | Prof. Maria das Graças de Almeida, Federal Center for Technological Education of Minas Gerais, Brazil |
| CNT2529   | Clothes Silhouette Recognition via Deep Neural Networks  
|           | Assoc. Prof. Yingjie Shi, Beijing Institute of Fashion Technology, China |
| CNT2517   | Tunable Multi-wavelength Distributed Feedback Laser Based on Holographic Polymer Dispersed Liquid Crystal Grating  
<p>|           | Assoc. Prof. Zhihui Diao, Changchun Institute of Optics, Fine Mechanics and Physics, Chinese Academy of Sciences, China |</p>
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<tr>
<th>Session Code</th>
<th>Title</th>
<th>Author(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CNT2628</td>
<td>A Hybrid Blockchain System Based on Parallel Distributed Architecture for Central Bank Digital Currency</td>
<td>Dr. Yanghua Cao, Beijing University of Posts and Telecommunications, China</td>
</tr>
<tr>
<td>CNT2631</td>
<td>Design of Campus Intelligent Navigation System Based on Embedded System</td>
<td>Prof. Fuping Wang, North Minzu University, China</td>
</tr>
<tr>
<td>CNT2526</td>
<td>Methodology to Ensure Information Security in a Distributed Architecture for a Public Organization of Ecuador</td>
<td>Dr. Segundo Moisés Tapanta Toapanta, Salesian Polytechnic University of Ecuador, Ecuador</td>
</tr>
<tr>
<td>CNT2568</td>
<td>Security Technologies to Improve Risk Management Against Natural or Anthropic Disasters in Ecuador</td>
<td>Dr. Segundo Moisés Tapanta Toapanta, Salesian Polytechnic University of Ecuador, Ecuador</td>
</tr>
<tr>
<td>CNT2633</td>
<td>An Improved Compressed Sensing Regularization Parameter Based on Statistical Histogram of Arbitrary Blocks for Maritime Radar Image Processing</td>
<td>Dr. Huabin Liu, Dalian Maritime University, China</td>
</tr>
</tbody>
</table>
Part V Conference Venue

Kitakyushu International Conference Center
Address: 3-9-30 Asano, Kokurakita-ku, Kitakyushu Fukuoka, 802-0001, Japan
Website: http://convention-a.jp/kokusai-kaigi/

Access to Venue

➢ Access from Airport

1. From Fukuoka Airport to JR Kokura Station
   (A) By Bus: about 110 minutes
      ● Take Nishitetsu Limited Express Bus to Kokura Bus station (Kokura ekimae bus stop)
   (B) By Train: about 22-70 minutes
      ● Take Fukuoka City Subway to JR Hakata station (about 6 minutes) and get off; and then transfer to:
         ● Option 1- JR kagoshima trunk line to JR Kokura Station (about 70min);
         ● Option 2- JR Limited Express line to JR Kokura Station (about 40min);
         ● Option 3- Shinkansen to JR Kokura Station (about 16min)

2. From Kitakyushu Airport to JR Kokura Station
   By Bus: about 33-49 minutes
   ● Take Kokura Non-stop Line to JR Kokura Station (about 33min);
   or
   ● Take Kokura Nakatani Line to JR Kokura Station (about 49min)
Access from JR Kokura Station to Conference Venue

Kitakyushu International Conference Center is about 500 m from Kokura Station, a 5-minute walk.
Map of the Conference Venue

➢ 1st Floor

➢ 3rd Floor
Part VI Acknowledgements

On behalf of the Organizing Committee of CECNet 2019, we would like to take this opportunity to express our sincere thanks to the support and contributions of participants from all over the world. We would also like to express our sincere acknowledgements to the Technical Program Committee members who have given their professional guidance and valuable advice to the conference. Below are the lists of the Technical Program Committee members. For those who contribute to the success of the conference organization without listing the name here, we would love to say thanks as well.

Conference Chair
Dr. Qixin Guo, Professor, Department of Electrical and Electronic Engineering, Director of Synchrotron Light Application Center, Saga University, Japan

TPC Co-Chair
Assoc. Prof. Nurul Sarkar, Department of IT and Software Engineering, Auckland University of Technology, New Zealand

Technical Program Committee
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Prof. Fabi Zhang, Guilin University of Electronic Technology, China
Prof. Eduardo Alvarez, Department of Electronic Engineering, Autonomous University of Baja California, Mexico
Prof. Jing Chen, Computer School, Wuhan University, China
Prof. K.C. Raveendranathan, Rajadhani Institute of Engineering and Technology Nagaroor, India
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University, Singapore
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Dr. Raveendra K, Koneru Lakshmaiah Educational Foundation, India