



# Conference Schedule

December 20, 2019 (Friday)		
14:00-18:00	Registration	The hall on the 1st floor Hotel UNIC
December 21, 2019 (Saturday)		
8:00-9:00	Registration	The hall on the 1st floor Hotel UNIC
Room	4 <sup>th</sup> Floor , BALLROOM, Hotel UNIC	
08:30-09:00	<p style="text-align: center;"><b>Opening Ceremony</b></p> <p style="text-align: center;">Honorary Chair: <i>President Jinfei Shi</i> , Nanjing Institute of Technology, China</p> <p style="text-align: center;">Session Chair: <i>Prof. Chenrong Huang</i>, Nanjing Institute of Technology, China</p>	
	<p style="text-align: center;"><b>Opening Remarks</b></p> <p style="text-align: center;">General Chair: <i>Prof. Ting Huai Ma</i>, Nanjing University of Information Science and Technology, China</p> <p style="text-align: center;">Session Chair: <i>Prof. Chenrong Huang</i>, Nanjing Institute of Technology, China</p>	
09:00-09:30	<b>Group Photo</b>	
09:30-10:00	<p style="text-align: center;"><b>Distinguished Talk 1:</b> Recent Developments in Deep Learning Research</p> <p style="text-align: center;"><i>Prof. Yi Pan</i>, Georgia State University, USA</p> <p style="text-align: center;">Session Chair: <i>Prof. Geng Yang</i>, Nanjing University of Posts and Telecommunications, China</p>	
10:00-10:30	<p style="text-align: center;"><b>Distinguished Talk 2:</b> Reinforcement Learning: Algorithmic and Architectural Aspects</p> <p style="text-align: center;"><i>Prof. Çetin Kaya Koç</i>, University of California Santa Barbara, IEEE Fellow</p> <p style="text-align: center;">Session Chair: <i>Prof. Kari Liukkunen</i>, University of Oulu, Finland</p>	
10:30-10:50	<b>Coffee Break</b>	
10:50-11:20	<p style="text-align: center;"><b>Distinguished Talk 3:</b> Malicious Meter Detection in Smart Grids</p> <p style="text-align: center;"><i>Prof. Yang Xiao</i>, University of Alabama, USA, IEEE Fellow</p> <p style="text-align: center;">Session Chair: <i>Prof. Najla Al Nabhan</i>, King Saud University, Saudi Arabia</p>	



## International Conference on Big Data and Security

11:20-11:50	<b>Distinguished Talk 4:</b> Cybersecurity in 5G-enabled Vulnerable IoT World <i>Prof. Muhammad Khurram Khan, King Saud University, Saudi Arabia</i> Session Chair: <i>Prof. Tero Päävärinta, University of Oulu, Finland</i>	
12:00-13:30	<b>Lunch (WEI CAFÉ, 1<sup>st</sup> Floor)</b>	
Room	<b>Conference Session (2<sup>nd</sup> Floor)</b>	
	<b>Meeting Room 3</b>	<b>Meeting Room 4</b>
14:00-15:10	Session 1: Cybersecurity	Session 3: IoT and Security
15:10-15:30	<b>Coffee Break</b>	
Room	<b>Conference Session (2<sup>nd</sup> Floor)</b>	
	<b>Meeting Room 3</b>	<b>Meeting Room 4</b>
15:30-16:30	Session 2: Software Engineering Security	Session 4: Big Data & Blockchain
18:00-20:00	<b>Banquet &amp; Events (Function Room 5, 3<sup>rd</sup> Floor)</b>	
<b>December 22, 2019 (Sunday)</b>		
Room	<b>Function Room 5, 3<sup>rd</sup> Floor</b>	
08:00-08:40	<b>Distinguished Talk 5:</b> Big Data, Blockchain & the Future of International Business <i>Dr. Vidyasagar Potdar, Curtin University, Australia</i> Session Chair: <i>Prof. Chenrong Huang, Nanjing Institute of Technology, China</i>	
08:40-09:20	<b>Distinguished Talk 6:</b> Video Big Data Compression via Deep Learning <i>Prof. Zhaoqing Pan, Nanjing University of Information Science and Technology, China</i> <b>Session Chair:</b> Session Chair: <i>Dr. Rand.J. Shaqra, University, Saudi Arabia</i>	
09:20-10:00	<b>Distinguished Talk 7:</b> Cybersecurity Challenges in Smart Cities involving Critical Cyber Infrastructure <i>Prof. Asad Masood Khattak, Zayed University, UAE</i> Session Chair: <i>Dr. Yuan Tian, Nanjing Institute of Technology, China</i>	
10:00-10:20	<b>Coffee Break</b>	
Room	<b>Conference Session (2<sup>nd</sup> Floor and 3<sup>rd</sup> Floor)</b>	



## International Conference on Big Data and Security

	Meeting Room 3	Meeting Room 4	Function Room 5
<b>10:20-11:30</b>	<b>Session 5:</b> Security in High Performance Computing	<b>Session 6:</b> Privacy Protection	<b>Session 7:</b> Artificial Intelligence/Machine Learning Security
<b>12:00-13:30</b>	<b>Lunch (WEI CAFÉ, 1<sup>st</sup> Floor)</b>		

<b>December 21, 2019 (Saturday)</b>			
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Room	<b>Meeting Room 3 (2<sup>nd</sup> Floor)</b>		
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<b>Session 1: Cybersecurity</b>			
<b>Session Chair:</b> <i>Dr. Rand.J</i> , Shaqra University, Saudi Arabia			

Time	Title	Speaker
<b>14:00-14:10</b>	Security Analysis and Improvement on Kerberos Authentication Protocol	Guangyao Yuan
<b>14:10-14:20</b>	An Efficient Lattice-based IBE Scheme Using Combined Public Key	Yanfeng Shi
<b>14:20-14:30</b>	A Systematic Review of Artificial Intelligence and Machine Learning Techniques for Cyber Security	Rahman Ali
<b>14:30-14:40</b>	A Blockchain based Terminal security of IoT	Dawei Li
<b>14:40-14:50</b>	Lightweight Identity Authentication Scheme Based on IBC Identity Cryptograph	Yngbing Lan
<b>14:50-15:00</b>	A Click Fraud Detection Scheme based on Cost-sensitive CNN and Feature Matrix	Xinyu Liu
<b>15:00-15:10</b>	A trust model for evaluating trust and centrality based on entropy weight method in social commerce	Lei Chen
<b>15:10-15:30</b>	<b>Coffee Break</b>	

<b>Session 2: Software Engineering Security</b>			
<b>Session Chair:</b> <i>Prof. Kari Liukkunen</i> , University of Oulu, Finland			

<b>15:30-15:40</b>	A Method of UML Sequence Diagram Verification based on a graph grammar	Zhan Shi
<b>15:40-15:50</b>	Human Factors Affecting XBRL Adoption Success in Lebanese Small to Medium-Sized Enterprises	Vidy Potdar
<b>15:50-16:00</b>	Design and Optimization of Evaluation Metrics in Object Detection and Tracking for Low-altitude Aerial Video	Li Wang



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<b>16:00-16:10</b>	Digital twins as software and service development ecosystems in Industry 4.0: A Research Agenda	Tero Päivärinta
<b>16:10-16:20</b>	Disease entities recognition from Chinese electronic medical record based on CRF and Bi-LSTM-CRF	Xiaolin Liu
<b>16:20-16:30</b>	XML Classification Method Based on Random Forest	Haitao Wu
<b>16:30-16:40</b>	Impact of Nepotism on the Human Resources Component of ERP Systems Implementation in Lebanon	Abdul Ayoub
<b>16:40-16:50</b>	Research on Table Overflow LDoS Attack Detection and Defense Method in Software Defined Networks	Shengxu Xie
Room	<b>Meeting Room 4 (2<sup>nd</sup> Floor)</b>	
<p><b>Session 3: IoT and Security</b></p> <p><b>Session Chair:</b> <i>Dr. Dawei Li</i>, Nanjing Institute of Technology, China</p>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
<b>14:00-14:10</b>	An IoT-based Congestion-Aware Emergency Evacuation Approach	Najla Al-Nabhan
<b>14:10-14:20</b>	An improved dynamic certificateless authenticated asymmetric group key agreement protocol with trusted KGC	Lingling Li
<b>14:20-14:30</b>	A Security Vehicle Network Organization Method for Railway Freight Train Based on Lightweight Authentication and Property Verification	Congdong Lv
<b>14:30-14:40</b>	A Differential Privacy Protection Mechanism Based on Recommendation System	Zongsheng Lv
<b>14:40-14:50</b>	Data Leakage Prevention System for Smart Grid	Chengzhi Jiang
<b>14:50-15:00</b>	On the Character Relations between Nodes for Data Forwarding in Mobile Opportunistic Networks	Runtong Zou
<b>15:00-15:10</b>	B-ABAC: Bayesian Anomaly-Detection and Attribute-based access control for Privacy-Preserving Approach in Multimedia Social Networks	Randa Aljably
<b>15:10-15:30</b>	<b>Coffee Break</b>	
<p><b>Session 4: Big Data &amp; Blockchain</b></p> <p><b>Session Chair:</b> <i>Dr. Vidyasagar Potdar</i>, Curtin University, Australia</p>		
<b>15:30-15:40</b>	Distributed image retrieval base on LSH Indexing on Spark	Zelei Hou



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<b>15:40-15:50</b>	Key Factors Affecting Blockchain Adoption in Organizations	Abubakar Mohammed
<b>15:50-16:00</b>	A Blockchain Based IoT Terminal Authentication Method in Zero Trust Environment	Dawei Li
<b>16:00-16:10</b>	A Microservice Architecture Design for Big Data in Tactical Cloud	Liyuan Tang
<b>16:10-16:20</b>	Trusted Query Method based on Authorization Index and Triangular Matrix in Big Data	Lihong Guo
<b>16:20-16:30</b>	Research Character Analyzation of Urban Security Based on Urban Resilience Using Big Data Method	Zhuoran Yang
<b>16:30-16:40</b>	Privacy Issues in Big Data -From Collection to Use	Alaa A. Alwabel
<b>16:50-17:00</b>	The Impact of Organizational Culture on the Internal Controls Components of Accounting Information Systems in the City of Beirut, Lebanon	Vidy Potdar

<b>December 22, 2019 (Sunday)</b>		
Room	<b>Meeting Room 3 (2<sup>nd</sup> Floor)</b>	
<b>Session 5: Security in High Performance Computing</b> <b>Session Chair: Dr. Biao Song, Nanjing University of Information Science and Technology, China</b>		
<b>Time</b>	<b>Title</b>	<b>Speaker</b>
<b>10:20-10:30</b>	Model Description of Embedded Processor Architecture for Edge Computing Environments	Yong Zhu
<b>10:30-10:40</b>	A Directional Virtual Coordinate Approach for 3-D IoT Systems in Smart Cities	Najla Al-Nabhan
<b>10:40-10:50</b>	Research on 5G in Electric Power System	Long Liu
<b>10:50-11:00</b>	Using GitHub Open Sources and Database Designed to Auto-Generate Chinese Tang Dynasty Poetry	Hai Yu
<b>11:00-11:10</b>	Research on time-sensitive technology in electric power communication network	Yuqing Yang
<b>11:10-11:20</b>	Over-sampling Multi-classification Method Based on Centroid Space	Weizheng Guan
Room	<b>Meeting Room 4 (2<sup>nd</sup> Floor)</b>	



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<b>Session 6: Privacy Protection</b>		
<b>Session Chair: Dr. Hang Chen, Nanjing Institute of Technology, China</b>		
Time	Title	Speaker
10:20-10:30	Location privacy protection based on Generative Adversarial Network and Cloaking region	Wenxi Wang
10:30-10:40	Security, Safety and Privacy Issues of Unmanned Aerial Vehicle Systems	Najla Alnabhan
10:40-10:50	Research on Application Technology of VoLTE in Power Wireless Private Network	Weiwei Kong
10:50-11:00	Community Detection based on DeepWalk in Large Scale Networks	Li Wang
11:00-11:10	Text Image Deblurring Algorithm Using Improved Kernel Sparsity Prior	Kai Wang
11:10-11:20	Improved MDS-MAP Localization Algorithm Based on Total Least Squares	Wei Zhao
11:20-11:30	People Flow Analysis based on anonymous OD trip data	Tianxu Sun
Room	<b>Function Room 5, 3<sup>rd</sup> Floor</b>	
<b>Session 7: Artificial Intelligence/Machine Learning Security</b>		
<b>Session Chair: Dr. Jiagao Wu, Nanjing University of Posts and Telecommunications,</b>		
Time	Title	Speaker
10:20-10:30	Robust Deep Text Classification Models via Virtual Adversarial Training on Interpretable Adversarial Text	Qian Chen
10:30-10:40	Human Activities Recognition from videos Based on Compound Deep Neural Network	Zhijian Liu
10:40-10:50	A Systematic Review of Artificial Intelligence and Machine Learning Techniques for Cyber Security	Rahman Ali
10:50-11:00	Optimizing the Efficiency of Machine Learning Techniques	Asad Masood Khattak
11:00-11:10	How to Construct Low-Altitude Aerial Image Datasets for Deep Learning	Xin Shu
11:10-11:20	Fire Detection from Images Based on Single Shot MultiBox Detector	Zechen Wan
11:20-11:30	A Bus Passenger Flow Estimation Method Based on POI Data and AFC Data Fusion	Yuexiao Cai
12:00-13:30	<b>Lunch (WEI CAFÉ, 1<sup>st</sup> Floor)</b>	
<b>Have a great trip home! See you in ICBDS 2020!</b>		