

2021 IEEE International Conference on Service Operations and Logistics, and Informatics (SOLI 2021)

Conference Programme

Programme at A Glance

Time	Day 1 (11 Dec 2021)	Session Chairs
9:00 – 9:10	Opening Speech by General Chair	
9:10 – 10:00	Keynote 1: Prof. David Yau	Dr. Huaqun Guo
10:00 – 10:20	Tea Break	
10:20 – 12:00	AI and cybersecurity	Dr. Yongqing ZHU
12:00 – 13:00	Lunch break	
13:00 – 14:40	Cybersecurity	Prof. Maode MA / Dr. Eyasu Getahun CHEKOLE
14.40 – 15:00	Tea Break	
15:00 – 16.40	IoT and cloud computing	Dr. Justin DAUWELS

Time	Day 2 (12 Dec 2021)	Session Chairs
9:00 – 10:00	Keynote 2: Mr. David Ong	Dr. Huaqun Guo
10:00 – 10.20	Tea Break	
10.20 – 12:00	Special session	Prof. Takako Hashimoto / Prof. Basabi CHAKRABORTY
12:00 – 13:00	Lunch break	
13:00 – 14.20	Human-machine interaction and NLP	Dr. Weizhi MENG
14:20 – 14:40	Tea Break	
14:40 – 15:15	Best Paper Award presentation and closing speech	

Full Technical Sessions

DAY 1 (11 December 2021)

Session 1: AI and Cybersecurity (Session Chair: Dr. Yongqing ZHU)

Time	Paper Title	Authors
10:20 – 10:40	<i>Deep RNN-based Traffic Analysis Scheme for Detecting Target Applications</i>	Prajwal Kaushal
10:40 – 11:00	<i>ABC-Verify: AI-Blockchain Integrated Framework for Tweet Misinformation Detection</i>	Tan Hui Yang Zen, Chin Bing Hong, Purnima Murali Mohan and Vivek Balachandran
11:00 – 11:20	<i>Artificial Intelligence Based Cybersecurity: Two Step Suitability Test</i>	Shah Md. Istiaque, Md Toki Tahmid, Asif Iqbal Khan, Zaber Al Hassan and Sajjad Waheed
11:20 – 11:40	<i>LionKeeper: Automatically Discovering Timely Cybercrime Dynamics in the Age of COVID-19</i>	Adrian Feng Jun Chan, Adrian Rui Xiang Low, Andrew En Wei Fong, Wee Chye Ryan Chua, Qing Han Goh, Jacob Abraham and Zhengkui Wang
11:40 – 12:00	<i>State of the Art Artificial Intelligence Based Cyber Defense Model</i>	Shah Md Istiaque, Md Toki Tahmid, Asif Iqbal Khan, Zaber Al Hassan and Sajjad Waheed

Session 2: Cybersecurity (Session Chair: Prof. Maode MA / Dr. Eyasu Getahun CHEKOLE)

Time	Paper Title	Authors
13:00 – 13:20	<i>Research on security technology framework of UAV cluster system</i>	Kunlun Wei and Tao Zhang
13:20 – 13:40	<i>Threat Hunting Using Elastic Stack: An Evaluation</i>	Kiruthiga Subramanian and Weizhi Meng
13:40 – 14:00	<i>Enhance Enterprise Security through Implementing ISO/IEC27001 Standard</i>	Huaqun Guo, Ping Huang, Meng Wei and Eyasu Getahun Chekole
14:00 – 14:20	<i>DARUD: Detecting and Arresting Rogue USB Devices in the V2X Ecosystem</i>	Eyasu Getahun Chekole and Huaqun Guo
14:20 – 14:40	<i>Fault Analysis of the ARIA and uBlock Block Ciphers</i>	Qinglin Wang and Jiqiang Lu

Session 3: IoT and cloud computing (Session Chair: Dr. Justin DAUWELS)

Time	Paper Title	Authors
15:00 – 15:20	<i>How COVID-19 Has Affected the Internet of Things (IoT) Technology</i>	Maha Abdullah and Mazen Abdullah
15:20 – 15:40	<i>Cloud-Fog Architecture for Sensor based Smart Energy Meter Real-Time Control and Management for Smart Cities</i>	A K Damodaram and Ch Lakshmi Tulasi
15:40 – 16:00	<i>IoT Based Mechanized Robot: An Integrated process Involving Fulltime Multipurpose Control,</i>	Abdullah All Mamun Anik, Shuvodip Adhikary, Istiak

	<i>Automation and Surveillance System</i>	Habib and Dr. Abdul Gafur
16:00 – 16:20	<i>Priority-Queue based Dynamic Scaling for Efficient Resource Allocation in Fog Computing</i>	Saksham Bhushan and Maode Ma
16:20 – 16:40	<i>A Visualization and Analysis tool for VCL Auto-generation Code Framework</i>	Ryan Kirwan, Javihn Che, Jia Le Woo and Stefan Sarin

DAY 2 (12 December 2021)

Session 4: Special Session (Session Chair: Prof. Takako Hashimoto / Prof. Basabi CHAKRABORTY)

Time	Paper Title	Authors
10:20 – 10:40	<i>Long-term Time Series Data Clustering of Stock Prices for Portfolio Selection</i>	Yukari Shirota and Akane Murakami
10:40 – 11:00	<i>Evaluation of Universities' Integrated Reports Using Text Mining Technique</i>	Takako Hashimoto
11:00 – 11:20	<i>Performance Analysis of Extended Lustgarten Index for Stability of Feature Selection</i>	Rikta Sen, Ashis Kumar Mandal and Basabi Chakraborty
11:20 – 11:40	<i>Anomaly Detection in Evolutionary Social Networks leveraging Community Structure</i>	Arnab Kumar Ghoshal and Nabanita Das
11:40 – 12:00	<i>Implementing Hybrid Amplifiers for DWDM System using Artificial Intelligence Methods</i>	Inderpreet Kaur, Manpreet Singh Manna and Ramalatha Marimuthu

Session 5: Human-machine interaction and NLP (Session Chair: Dr. Weizhi MENG)

Time	Paper Title	Authors
13:00 – 13:20	<i>Smart Captions: A Novel Solution for Closed Captioning in Theatre Settings with AR Glasses</i>	De Xing Ong, Kai Xiang Chia, Yi Yi Huang, Jasper Teck Siong Teo, Jezamine Tan, Melissa Lim, Dongyu Qiu, Xinxing Xia and Frank Yunqing Guan
13:20 – 13:40	<i>ASIST: Automated Strategic Partners Ranking and Recommendation System Using NLP and Security Intelligence</i>	Hoe Feng Ting and Purnima Murali Mohan
13:40 – 14:00	<i>An Analysis of Supervised Machine Learning Algorithms for Email Classification Employing Natural Language Processing Techniques</i>	Md. Mohidul Hasan, Syed Mahbub Uz Zaman, Md. Asif Talukdar, Ayesha Siddika and Md. Golam Rabiul Alam
14:00 – 14:20	<i>Non-Verbal Auditory Aspects of Human-Service Robot Interaction</i>	Jeannie Lee, Muhamed Fauzi Bin Abbas, Chee Kiat Seow, Qi Cao, Kar Peo Yar, Sye Loong Keoh and Ian Mcloughlin