

## ISAI-NLP-AIoT-ICCT 2022 Program Schedule

The 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing (iSAI-NLP 2022) and The International Conference on Artificial Intelligence and Internet of Things (AIoT 2022), and International Conference on Culture Technology 2022	
Tentative Schedule	
Time	Program
<b>Friday, November 4, 2022</b>	
Place: Kantary Hills Hotel, Chiang Mai Thailand	
Time	Program
15.00-17.00	Registration @Reception Desk, Kantary Hills Hotel
16.00-18.00	Committee Meeting @Kantary Hills Hotel
<b>Saturday, November 5, 2022</b>	
Place: Kantary Hills Hotel, Chiang Mai Thailand	
Time	Program
08.00-09.00	<b>Registration</b> Floor 1, @Kantary Hills Hotel
09.00-10.20	<b>Oral Paper Presentation</b> Session: iSAI-NLP-AIoT- 4A, iSAI-NLP-AIoT- 3A Room: Doi Luang, Doi Nang Fl.2
09.00-10.20	<b>Tutorial</b> Machine Learning Assoc. Prof. Dr.Ekarat Boonchieng Room: Doi Suthep 1 Fl.1 NLP Dr.Prachya Boonkwan Room: Doi Suthep 2 Fl.1
10.20-10.40	<b>Break</b>
10.40-12.00	<b>Oral Paper Presentation</b> Session: ICCT-1A, ICCT-1B Room: Doi Luang, Doi Nang Fl.2 Session: iSAI-NLP-AIoT-2A, iSAI-NLP-AIoT-1A Room: Doi Suthep 1-2 Fl.1
12.00-13.30	<b>Lunch</b>
13.30-13.45	<b>Opening Ceremony</b> Room: Doi Luang & Doi Nang Fl.2
13.45-14.30	Keynote I: Dr. Kwangyun Wohn, KAIST, South Korea Chair: TBA

**The 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing (iSAI-NLP 2022) and The International Conference on Artificial Intelligence and Internet of Things (AIoT 2022), and International Conference on Culture Technology 2022**

**Tentative Schedule**

Time	Program
14.30-14.45	<b>Break</b>
15.00-17.00	<b>Oral Paper Presentation</b>
	Session: ICCT-1C, ICCT-1D
	Room: Doi Luang, Doi Nang Fl.2
15.00-19.00	Session: iSAI-NLP-AIoT-7A
	Room: Doi Suthep 2 Fl.1
	<b>Workshop</b>
15.00-19.00	NLP
	Keynote 1: Prof. Watanabe-san
	Keynote 2: Dr. Ohnmar, Rakuten
Room: Doi Suthep 1 Fl.1	
<b>Sunday, November 6, 2022</b>	
Place: Kantary Hills Hotel, Chiang Mai Thailand	
Time	Program
08.00-09.00	<b>Registration</b>
	Floor 1, @Kantary Hills Hotel
08:00-09:00	<b>Setting Up for Poster Paper Presentation</b>
	Room: Foyer Fl.1
09.00-09.40	<b>Keynote Presentation</b>
	Keynote II: Masakazu Urade, SOCIONEXT, Japan Chair: Prof.Tsuyoshi Isshiki
09.40-10.20	Keynote III: Assoc.Prof.Dr.Chalie Charoenlarnopparut, SIIT, TU, Thailand
	Chair: Prof.Tsuyoshi Isshiki
	Room: Doi Suthep 1-2 Fl.1
10.20-10.35	<b>Break</b>
10.35-11.15	Keynote IV: Prof. Dr. Masashi Unoki, JAIST, Japan Chair: Dr.Thepchai Supnithi
10.20-12.30	<b>Poster Paper Presentation</b>
	Room: Foyer Fl.1
12.00-13.30	<b>Lunch</b>
13.30-15.00	<b>Oral Paper Presentation</b>
	Session: ICCT-2A
	Room: Doi Suthep 1 Fl.1

**The 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing (iSAI-NLP 2022) and The International Conference on Artificial Intelligence and Internet of Things (AIoT 2022), and International Conference on Culture Technology 2022**

**Tentative Schedule**

Time	Program
	Session: iSAI-NLP-AIoT-2A, iSAI-NLP-AIoT-1A Room: Doi Suthep 2 Fl.1
13.30-15.00	<a href="#">Online Paper Presentation</a> Session: ICCT-3A Room: Doi Kham Fl.1
	<a href="#">Break</a>
15.15-17.00	<a href="#">Oral Paper Presentation</a> Session: ICCT-2B Room: Doi Suthep 1 Fl.1
	Session: iSAI-NLP-AIoT-4B Room: Doi Suthep 2 Fl.1
	<a href="#">Online Paper Presentation</a> Session: ICCT-3B Room: Doi Kham Fl.1
	<a href="#">Banquet</a> Room: Doi Suthep 1-2 Fl.1

**Monday, November 7, 2022**

Place: Kantary Hills Hotel, Chiang Mai Thailand

Time	Program
08.00-09.00	<a href="#">Registration</a> Floor 1, @Kantary Hills Hotel
	<a href="#">Oral Paper Presentation</a> Session: iSAI-NLP-AIoT-1C Room: Doi Luang Fl.2 Session: iSAI-NLP-AIoT-6A, iSAI-NLP-AIoT-5A Room: Doi Nang Fl.2 Session: iSAI-NLP-AIoT-4C Room: Doi Suthep 1 Fl.1 Session: iSAI-NLP-AIoT-3B Room: Doi Suthep 2 Fl.1
10.30-10.45	<a href="#">Break</a>
10.45-12.00	<a href="#">Closing Ceremony</a>

The 17th International Joint Symposium on Artificial Intelligence and Natural Language Processing (iSAI-NLP 2022) and The International Conference on Artificial Intelligence and Internet of Things (AIoT 2022), and International Conference on Culture Technology 2022

Tentative Schedule

Time	Program
	Room: Doi Luang & Doi Nang Fl.2
12.00-13.30	Lunch

**[ISAI-NLP-AIoT 2022 Technical Oral Sessions]**

**iSAI-NLP-AIoT- 1A: Natural Language Processing**

**Session Chair: Prasert Luekong (RMUTL, Thailand)**

**Date: November 5, 2022 Time: 10:40-12:00**

**Room: Doi Suthep 2 (Fl.1)**

**1A.1: 9510-Graph-based Dependency Parser Building for Myanmar Language**

*Zar Zar Hlaing, Ye Kyaw Thu, Thepchai Supnithi and Ponrudee Netisopakul*

**1A.2: 2440 -The Evaluation of Interviewer's Presentation Styles for Interview Practice with a Communicative Robot**

*Mako Komatsu, Masato Takeuchi, Teruhiko Unoki and Mikifumi Shikida*

**1A.3: 4813-Enhancing Thai Keyphrase Extraction Using Syntactic Relations: An Adoption of Universal Dependencies Framework**

*Chanatip Saetia, Supawat Taerungruang and Tawunrat Chalothorn*

**1A.4: 9930-Question Answering over Knowledge Graphs for Thai Retail Banking Products**

*Wirit Khongcharoen, Chanatip Saetia, Tawunrat Chalothorn and Pakpoom Buabthong*

**iSAI-NLP-AIoT-1B: Natural Language Processing**

**Session Chair: Rachada Kongkachandra (TU, Thailand)**

**Date: November 6, 2022 Time: 13:30-15:00**

**Room: Doi Suthep 2 (Fl.1)**

**1B.1: 0378-Syllable-to-Syllable and Word-to-Word Transducers for Burmese Dialect Translation**

*Thazin Myint Oo, Thitipong Tanprasert, Ye Kyaw Thu and Thepchai Supnithi*

**1B.2: 9332-ThEconSum: An Economics-Domained Dataset for Thai Text Summarization and Baseline Models**

*Sawitree Jumpathong, Akkharawoot Takhom, Prachya Boonkwan, Vipas Sutantayawalee, Peerachet Porkaew, Sitthaa Phaholphinyo, Charun Phrombut, Thepchai Supnithi, Khemarath Choke-Mangmi, Saran Yamasathien, Nattachai Tretasayuth, Kasidis Kanwatchara and Atiwat Aiemleuk*

**1B.3: 6600-Improving Neural Machine Translation for Low-resource English-Myanmar-Thai Language Pairs with Switch Out Data Augmentation Algorithm (Online)**

*Mya Ei San, Ye Kyaw Thu, Thepchai Supnithi and Sasiporn Usanavasin*

**1B.4: 7286-Enhancing Response Relevance and Emotional Consistency for Dialogue Response Generation (Online)**

*Mengmeng Gong, Hui Song, Haoran Zhou and Bo Xu*

**iSAI-NLP-AIoT- 1C: Natural Language Processing**

**Session Chair: Prachya Boonkwan (NECTEC, Thailand)**

**Date: November 7, 2022 Time: 09:00-10:40**

**Room: Doi Luang (Fl.2)**

**1C.1: 5659-Automatic Thai Text Summarization Using Keyword-Based Abstractive Method**

*Parun Ngamcharoen, Nuttapong Sanglerdsinlapachai and Pikul Vejjanugraha*

**1C.2: 9292-Product and Industrial Classification Code Suggestion System for Thai Language**

*Rungkarn Siricharoenchai, Panchapawn Chatsuwon, Paramet Tanwanont, Sarunruk Janbradab, Navaporn Surasvadi and Suttipong Thajchayapong*

**1C.3: 1050-A Construction of Thai WordNet through Translation Equivalence**

*Dhanon Leenoi, Alongkorn Alongkornchai, Akkharawoot Takhom, Prachya Boonkwan and Thepchai Supnithi*

**iSAI-NLP-AIoT- 2A: Robotics, IoT and Embedded System**

**Session Chair: Weena Janratchakool (RMUTT, Thailand)**

**Date: November 5, 2022 Time: 10:40-12:00**

**Room: Doi Suthep 1 (F1.1)**

**2A.1: 0530-Real-time Multiple Analog Gauges Reader for an Autonomous Robot Application**

*Visarut Trairattanapa, Sasin Phimsiri and Chaitat Utintu*

**2A.2: 5310-The Effect of Beta-Carotene contain in The Pumpkin using IoT Technology in Polyhouse**

*Kanitha Homjun, Kasree Namkane, Sirilux Kaewsirirung, Nongnuch Ketui and Worawit Fankam-Ai*

**2A.3: 4656-Smart Street Light Monitoring and Visualization Platform for Campus Management (Online)**

*Somrudee Deepaisarn, Paphana Yiwsiw, Chanon Tantiwattanapaibul, Suphachok Buaruk and Virach Sornlertlamvanich*

**2A.4: 1178-Design and Construct Quadcopter to Detect Wild Elephant to Alert (Online)**

*Jiranuwat Piriyasupakij and Ratchada Prasitphan*

**iSAI-NLP-AIoT- 2B: Robotics, IoT and Embedded System**

**Session Chair: Uraivan Inyaem, RMUTT, Thailand**

**Date: November 5, 2022 Time: 9:00-10:20**

**Room: Doi Nang (F1.2)**

**2B.1: 5291-Using the MQTT Broker as a Speech-Activated Medium to Control the Operation of Devices in the Smart Office**

*Khanista Namee, Rudsada Kaewsang-On, Jantima Polpinij, Ghadeer Mohsen Albadrani, Kavin Rueagraklikhit and Areej Meny*

**2B.2: 9722-Development of Internet of Things System for Environment Control in Niam Hom (*Strobilanthes nivea* Craib) House (Online)**

*Sancha Panpaeng, Natawut Payakkhin and Pipop Maneejamnong*

**iSAI-NLP-AIoT- 3A: Data Analytics and Machine Learning**

**Session Chair: Uraivan Inyaem, RMUTT, Thailand**

**Date: November 5, 2022 Time: 9:00-10:20**

**Room: Doi Nang (F1.2)**

**3A.1: 5787-Association of Serum Uric Acid and Lipid Parameters in Patients at Lamphun Hospital, Thailand**

*Jiraporn Gatedee, Kanokwan Jaiping, Aungsana Yothinarak, Janjuree Netsawang, Summana Kasemsawasdi, Supanit Angsirikul and Rachasak Somyanonthanakul*

**3A.2: 4909-Forex Price Movement Prediction Using Stacking Machine Learning Models**

*Thanapol Kurujitkosol, Akkharawoot Takhom and Sasiporn Usanavasin*

**iSAI-NLP-AIoT- 3B: Data Analytics and Machine Learning**

**Session Chair: Ekkarat Boonchieng (CMU, Thailand)**

**Date: November 7, 2022 Time: 09:00-10:40**

**Room: Doi Suthep 2 (F1.2)**

**3B.1: 6127-Simulation of Homogenous Fish Schools in the Presence of Food and Predators using Reinforcement Learning**

*Ravipas Wangananont, Norapat Buppodom, Sanpat Chanthanuraks and Vishnu Kotrajaras*

**3B.2: 5617-Anomaly Detection on Real-time Security Log using Stream Processing**

*Wasit Limprasert and Patcharapon Jantana*

**3B.3: 3341-Fault Prediction Model for Motor and Generative Adversarial Networks for Acceleration Signal Generation**

*Saran Deeluea, Chawalit Jeenanunta and Apinun Tunpan*

**3B.4: 2782-Source Code Plagiarism Detection Based on Abstract Syntax Tree Finger printings (Online)**

*Vasin Suttichaya, Tunchanok Lurkraisit and Niracha Eakvorachai*

**iSAI-NLP-AIoT-4A: Signal, Image, and Speech Processing**

**Session Chair: Nipat Jongsawat (RMUTT, Thailand)**

**Date: November 5, 2022 Time: 9:00-10:20**

**Room: Doi Suthep 2 (F1.1)**

**4A.1: 6635-RAS-E2E: The SincNet end-to-end with RawNet loss for text-independent speaker verification**

*Pantid Chantangphol, Theerat Sakdejayont and Tawunrat Chalothorn*

**4A.2: 9673-An Analysis of Acoustic Features for Attention Score in Thai MoCA Assessment**

*Wirot Treemongkolchok, Dittaya Wanvarie, Proadpran Punyabukkana and Ploy N. Pratanwanich*



**4A.3: 9823-Image Captioning for Thai Cultures (Online)**

*Sarin Watcharabutsarakham, Sanparith Marukatat, Kantip Kiratiratanapruk and Pitchayagan Temniranrat*

**iSAI-NLP-AIoT-4B: Signal, Image, and Speech Processing**

**Session Chair: Sanparith Marukatat (NECTEC, Thailand)**

**Date: November 6, 2022 Time: 15:00-17:00**

**Room: Doi Suthep 2 (F1.1)**

**4B.1: 2546-Sugarcane Classification for On-Site Assessment Using Computer Vision (Online)**

*Prasertsak Pungprasertying*

**4B.2: 0535-Convolutional Time Delay Neural Network for Khmer Automatic Speech Recognition (Online)**

*Nalin Srun, Sotheara Leang, Ye Kyaw Thu and Sethserey Sam*

**4B.3: 6707-A Comparative Study of Noise Augmentation and Deep Learning Methods on Raman Spectral Classification of Contamination in Hard Disk Drive (Online)**

*Sarun Gulyanon, Somrudee Deepaisarn, Chayud Srisumarnk, Nattapol Chiewnawintawat, Angkoon Angkoonsawaengsuk, Seksan Laitrakun, Pakorn Opaprakasit, Pornchai Rakpongsiri, Thawanpat Meechamnan and Duangporn Sompongse*

**4B.4: 2537-Visual-based Musical Data Representation for Composer Classification (Online)**

*Somrudee Deepaisarn, Suphachok Buaruk, Sirawit Chokphantavee, Sorawit Chokphantavee, Phuriphan Prathipasen and Virach Sornlertlamvanich*

**iSAI-NLP-AIoT- 4C: Signal, Image, and Speech Processing**

**Session Chair: Somrudee Deepaisarn (SIIT, TU, Thailand)**

**Date: November 7, 2022 Time: 09:00-10:40**

**Room: Doi Suthep 2 (F1.1)**

**4C.1: 0748-Rice Leaf Diseases Identify Using Big Transfer**

*Anurak Yutthanawa and Janya Onpans*

**4C.2: 3460-ThaiTC: Thai Transformer-based Image Captioning**

*Teetouch Jaknamon and Sanparith Marukatat*

**4C.3.: 4703-Synthetic face generation from in-the-wild face components swapping**

*Romrawin Chumpu, Pitchayagan Temniranrat and Sanparith Marukatat*

**iSAI-NLP-AIoT- 5A: Smart Energy Industrial Technologies and**

**Session Chair: Seksan Laitrakun (SIIT, TU, Thailand)**

**Date: November 7, 2022 Time: 09:00-10:40**

**Room: Doi Nang (F1.2)**

**5A.1: 9147-Long-Term Energy Demand Forecasting in Thailand with Ensemble Prediction Model ([Online](#))**

*Isariyanatre Chatunapalak, Watee Kongprawechnon and Jasada Kudtongngam*

**iSAI-NLP-AIoT- 6A: AIoT Design and Applications**

**Session Chair: Seksan Laitrakun (SIIT, TU, Thailand)**

**Date: November 7, 2022 Time: 09:00-10:40**

**Room: Doi Nang (F1.2)**

**6A.1: 1255-Modeling of Manufacturing Processes using Hidden Semi-Markov Model and RSSI Data**

*Supachai Vorapojpisut and Karishma Agarwal*

**6A.2: 9958-Shrimp-growth Estimation Based on ResNeXt for an Automatic Feeding-tray Lifting System Used in Shrimp Farming**

*Chanon Nontarit, Toshiaki Kondo, Warakorn Khamkaew, Jaroenmit Woradet and Jessada Karnjana*

**6A.3: 1061-Smartphone-Based Human Activity and Fall Recognition Using Deep Feature Extraction and Machine-Learning Classifiers (Online)**

*Laksamee Nooyimsai, Onnicha Pakdeepong, Tipkasem Phiakhan, Supajitra Chatchawalvoradech and Seksan Laitrakun*

**iSAI-NLP-AIoT- 7A: Management Technology**

**Session Chair: Pisit Chanvarasuth (SIIT, TU, Thailand)**

**Date: November 5, 2022 Time: 15:00-17:00**

**Room: Doi Suthep2 (Fl.1)**

**7A.1: 5907- Factors Affecting Purchase Intention to Coffee Shop**

*Prapavarin Buranananont, Aussadavut Dumrongsiti and Pisit Chanvarasuth*

**7A.2: 6474-Portfolio Optimization and Rebalancing with Transaction Cost: A Case Study in the Stock Exchange of Thailand**

*Apichat Chaweewanchon and Rujira Chaysiri*

**7A.3: 6607-Factors Affecting Acceptance of Dental Appointment Application among Users in Bangkok and Metropolitan Area (Online)**

*Kasidit Eiam-O-Pas, Nuchjarin Intalar and Chawalit Jeenanunta*

**7A.4: 9218-Spherical Fuzzy AHP-VIKOR Model Application in Solar Energy Location Selection Problem: A Case Study in Vietnam (Online)**

*Viet Tinh Nguyen and Rujira Chaysiri*

## [ICCT 2022 Technical Oral Sessions]

### **ICCT-1A: 5G and Beyond Communication Systems**

**Session Chair: Sang-Joong Jung (Dongseo University, Korea)**

**Date: November 5, 2022**

**Room: Doi Luang Fl.2, Time:10.40-12.00**

#### **1A.1: Firewall Logs Classification Based on Ensemble Voting using Sequential Feature Selection Method**

*Qazi Waqas Khan, Rashid Ahmad, Atif Rizwan, Anam Nawaz Khan, DoHyeun Kim (Jeju National University, Korea)*

#### **1A.2: Network Slicing: Enabling Technologies and Solutions for 5G-Advanced Use-cases**

*Muhammad Ashar Tariq, Mahnoor Ajmal, Dongkyun Kim (Kyungpook National University, Korea)*

#### **1A.3: Smart Farm enabled with WiFi & LoRa based Multi-interface**

*Malik Muhammad Saad, Junho Seo, Muhammad Ashar Tariq, Ayesha Siddiqa, Boomi Jeong (Kyungpook National University, Korea); Jaeyoung Kim (Electronics and Telecommunications Research Institute); Dongkyun Kim (Kyungpook National University, Korea)*

#### **1A.4: Dynaminc selection of child nodes for constrained Wi-SUN**

*Sungwon Lee (Daegu Haany University, Korea); Sunghyun Kim (Kyungpook National University, Korea); Donghyun Jeon (Daegu Haany University, Korea); Dongkyun Kim (Kyungpook National University, Korea)*

### **ICCT-1B: Artificial Intelligence**

**Session Chair: Pyeoungkee Kim (Silla University, Korea)**

**Date: November 5, 2022**

**Room: Doi Nang Fl.2, Time: 10.40-12.00**

#### **1B.1. Multilevel Board Game - A Sim-2-Real Testbed for Reinforcement Learning on Labyrinth Game**

*Hammed Obasekore, Bo-Yeong Kang (Kyungpook National University, Korea)*

**1B.2 Underground cavity recognition from GPR image using DNN**

*Pyeongkee Kim (Silla University, Korea); YoungIl Park (Unique Human Systems, Korea)*

**1B.3: A Study on Aerial Compting: A Novel Promising Technologies in 6G**

*Shahnila Rahim, Ke Zhao, Muhammad Fawad Khan, Limei Peng (Kyungpook National University, Korea)*

**1B.4: Cyberbullying Type Classification Across Thai Social Media Platforms using Machine Learning Analysis**

*Supattanawaree Thipcharoen, Teerawich Wongsa (Chiang Mai University, Thailand); Piyanush Tooptompong, Worapong Bumrungsri (Minerva Consultants Co.,LTD., Thailand); Rattasit Sukhahuta (Chiang Mai University, Thailand)*

**ICCT-1C: Information Communication**

**Session Chair: Somchoke Ruengittinun (Kasetsart University, Thailand)**

**Date: November 5, 2022**

**Room: Doi Luang Fl.2, Time: 15.00-17.00**

**1C.1: The Approach of Mental Healthcare Digital Twin Platform Architecture**

*Kang-Yoon Lee (Gachon University, Korea)*

**1C.2: A Robust approach to small object detection for Digital Twin in the Industries**

*Faisal Saeed, Anand Paul (Kyungpook National University, Korea); Gwanggil Jeom (Incheon National University, Korea)*

**1C.3: A Study on Semantic Communications**

*ZiJian Chen, Limei Peng (Kyungpook National University, Korea)*

**1C.4: Statistical Characteristic of IMU Rate Gyro Uncertainty**

*Chanasorn Nutsathaporn, Sakchai Chomkokard, Wiwat Wongkokua, Noparit Jinuntuya, Somchoke Ruengittinun (Kasetsart University, Thailand); Siriporn Sasimontongkul (Kasetsart University Kamphaeng Saen Campus, Thailand)*

**1C.5: Help Well: A platform for Disaster Assistance Management**

*Butsayamat Suanset, Tanapat Chanavestpong, Intiraporn Mulasastra (Kasetsart University, Thailand)*

**ICCT-1D: Landscape and Architecture**

**Session Chair: Kwan-Seon Hong (Dongseo University, Korea)**

**Date: November 5, 2022**

**Room: Doi Nang Fl.2, Time: 15.00-17.00**

**1D.1: IRRIDIUM MAGAZINE: The first Narrative Magazine**

*Clément Fedou, Sunghoon Cho, Yong-Ki Lee (Dongseo University, Korea)*

**1D.2: Research on the Application of SITES in University Campus Landscape -Take Dell Medical District-University of Texas at Austin as an Example**

*Li Wu, Kwan-Seon Hong (Dongseo University, Korea)*

**1D.3: Difference between Service Design and Product Service System**

*Xuan-na Xie, Zhen-Xiang Liu, Sung-pil Lee (Dongseo University, Korea)*

**1D.4: A comparative study of Korean Metro service quality based on Servicescape**

*Jia-Xing Long, Yi-Yu Yang, Sung-Pil Lee (Dongseo University, Korea)*

**ICCT-2A: Social Networks**

**Session Chair: Rolly Intan (Petra Christian University, Indonesia)**

**Date: November 6, 2022**

**Room: Doi Suthep 1 Fl.1, Time: 13.20-15.00**

**2A.1: Innovations in ODL through Virtual Reality technologies**

*Chen Zhen (Jiangsu Open University, China); Jiawei Yin, Sojin Kim, Yong-Ki Lee (Dongseo University, Korea)*

**2A.2: Book Cover Design Using Short-Form Animation: Focusing on Korean Classical Literature**

*Seong Eun Park, Kim lo a, Jihye Kim, Haeyoon Kim (Dongseo University, Korea)*

**2A.3: Data validation of cultural data collection based on the citizen science concept**

*Watchira Burnasing, Pattaraporn Meekali, Petchwadee (National Electronics and Computer Technology Center, Thailand)*

**2A.4: Quality Factors for Generative Toolkits in a Participatory Design Approach to give Users a Voice in Social Innovation**

*Punyotai Thamjamrassri, Hanbi Cha, Eunjin Kim, Yong-Ki Lee (Dongseo University, Korea)*

**ICCT-2B: Big Data**

**Session Chair: Bonghwan Kim (Daegu Catholic University, Korea)**

**Date: November 6, 2022**

**Room: Doi Suthep 1 Fl.1, Time: 15.20-17.00**

**2B.1: Development of Location-based Big Game Applications using the Interest-inducing Factors of Gamification**

*GyuHyeok Choi, JuYoung Chang, Mijin Kim (Dongseo University, Korea)*

**2B.2: Development of Racing Game using Multi-View Method**

*YuGyeong Jeong, Wooyoung Jung, GyuHyeok Choi, Mijin Kim (Dongseo University, Korea)*

**2B.3: Real-time Object Reconstruction for Spatial Augmented Reality Platform**

*Aye Chan Zay Hta, YunLi Lee, Wai Chong Chia (Sunway University, Malaysia)*

**2B.4: Smart Analysis of Twitter Data to Advance Future Tourism**

*Muhammad Shaheryar, Jae Cheon Jeon, Soon Ki Jung (Kyungpook National University, Korea)*

**[ICCT 2022 Online Session]**

**ICCT- 3A: Art and Design-I**

**Session Chair: Yun Li Lee (Sunway University, Malaysia)**

**Date: November 6, 2022**

**Room: Doi Khum Fl.1, Time: 13.20-15.00**

**3A.1: The Integrated Operation Called "Structure +" in Landscape Structure Design**

*Wang Yu (Nanjing University of Aeronautics and Astronautics, China); Chen Zhen (Jiangsu Open University, China)*

**3A.2: Research on the Computational Structure and Content System of Metaverse Design**

*Cheng Qiaoming (Nanjing University of Aeronautics and Astronautics, China)*

**3A.3: Rural area cultural Cultural Landscape Measurement Method Based on Square Grid-cube Model**

*Zhong jian Zhao, Shang Cailing (Nanjing University of Aeronautics and Astronautics, China)*

**3A.4: Impact from prefabricated building to modern architecture design**

*Yueqian Li (University of Melbourne, Australia); Li, Wei (Nanjing University of Aeronautics and Astronautics, China)*

**3A.5 Analysis on the Characteristics of Exhibition Design in the Information Age -  
- Taking Milan EXPO as an Example**

*Wei Li (Nanjing University of Aeronautics and Astronautics, China)*

**3A.6: A Study of University Education Methods in the Metaverse Era**

*Chun Hyunjin, Sun jiaqin, Shi yanan (Nanjing University of Aeronautics and Astronautics, China)*

**ICCT-3B: Social Computing**

**Session Chair: Rattasit Sukhahuta (Chiang Mai University, Thailand)**

**Date: November 6, 2022**

**Room: Doi Khum Fl.1, Time: 15.20-17.00**

**3B.1: Analysis of Reproduction using 3D scanning Technology and Vehicle Relics Data Preservation**

*Jiawei Yin, Sojin Kim, Yong-Ki Lee (Dongseo University, Korea)*

**3B.2: Marketing of Medium and Low-budget Films in the New Media Environment**



*Siwen Shi, Sunghoon Cho, Yong-Ki Lee (Dongseo University, Korea)*

**3B.3: Analysis of Development of Virtual Idols Based on Game Characters**

*Lyu Yin, Soojin Kim, Yong-Ki Lee (Dongseo University, Korea)*

**3B.4: Defining types & elements of film space in suspense films**

*Chuxuan Wang, Sunghoon Cho, Yong-Ki Lee (Dongseo University, Korea)*

**3B.5: Pneumonia Detection from X-Ray Images through Voting Ensemble method**

*Harsha B M, Siby Cyriac, Yong Woon Kim (CHRIST Deemed to be University, India)*

**3B.6: AI-Based Online Proctoring: A Review of the State-of-the-Art Techniques and Open Challenges**

*Sagaya Aurelia. P, Yong-Woon Kim (CHRIST Deemed to be University, India); Felcy Judith (T John College, India)*

**3B.7: Analysis of the causes of cyber violence harm and solution**

*Kaicheng Zhang, Sunghoon Cho, Yong-Ki Lee (Dongseo University, Korea)*

**[ICCT 2022 Poster Sessions]**

**ICCT-1A: Communications and Networks**

**Session Chair: Sehyun Park (Daegu University, Korea)**

**Date: November 06, 2022**

**Foyer Fl.1, Time: 10.20-12.30**

**1A.1: A Study on Object Detection Methods Using Image Binarization**

*Young-Jin Kang, Ji Yeon Kim, Eun Sung Choi, Eun Sung Choi, Seok Chan Jeong (Dong Eui University)*

**1A.2: An Improved YOLOv5 Model Based on the Scene-Specific Head Models**

*Jin Ho Lee, In Su Kim (Kyungpook National University, Korea); Hyeong Bok Kim, Seung Won Lee (Testworks, Korea); Soon Ki Jung (Kyungpook National University, Korea)*

**1A.3: Dueling Double Deep Q Networks for Agricultural Crop Price Prediction**

*Ohnmar Khin, Sung Keun Lee Jin Gwang Koh (Sunchon National University, Korea)*

**1A.4: BetterCog : Computerized Cognitive Training System for Mild Cognitive Impairment**

*Tae-Young Byun (Daegu Catholic University, Korea); Joo-Hwan Seo, Sun-Woo Lee (M3Solutions Ltd., Korea)*

**1A.5: Implementation of Mobile Boat for Measuring Water Quality over LTE Networks**

*Tae-Young Byun (Daegu Catholic University, Korea); Chang-Hak Cho, Jin-Hyun Seol (Institute of Technology Water Korea Ltd, Korea); Bonghwan Kim (Daegu Catholic University, Korea)*

**1A.6: Audio Quality Restoration Method using Convolutional Neural Network**

*Hong-Jin Kim, Sehyun Park, Kyuman Jeong (Daegu University, Korea)*

**1A.7: Cow Delivery Detection System using Deep Learning-based Object Recognition Algorithm**

*Sung-Wook Chae, Donghwa Lee (Daegu University, Korea)*

**1A.8: Development of handwriting generation and classification model based on deep learning algorithm**

*Jae-Jung Kim, Ji-Yun Seo, Sang-Joong Jung, Do-Un Jeong (Dongseo University, Korea)*

**1A.9: Development of Advanced Visual Function Training System using VR Content**

*Yong-Ju Kim, Sang-Joong Jung (Dongseo University, Korea)*

[iSAI-NLP 2022 Workshop Session]

**WS-06: An Optimal Mathematics Learning - an Online Mathematics Learning Platform using 10-levels of Thai Student Behavior Model**

*Narabodee Rodjananant, Purinut Polasa, Nattapol Kritsutikul, and Nattapon Buaurai*

**WS-05: A Personalized Learning Platform to Improve English Pronunciation at Word Level for Thai EFL Learners based on End-to-End Automatic Speech Recognition**

*Kongpop Boonma, Phongsatorn Ousakulwattana, Nattapol Kritsuthikul, Jirapond Muangprathub, and Tirapond Jaroensak*

**WS-03: Ensemble Decoding for Neural Machine Translation between Burmese and English**

*Ye Kyaw Thu, Hlaing Myat Nwe, Thepchai Supnithi*

**WS-08: mySentence: Sentence Segmentation for Myanmar Language using Neural Machine Translation Techniques**

*Thura Aung, Ye Kyaw Thu, Zar Zar Hlaing*

**WS-10: Neural Spelling Checker for Khmer**

*Sokheang Hal, Duk Vandeth, Ye Kyaw Thu, Dona Valy, Sethserey Sam*

**WS-12: Sentiment Polarity Classification for Khmer**

*Khim Sokheng, Ye Kyaw Thu, Sethserey Sam*