The 22nd IEEE/ACIS International Conference on Software Engineering Research, Management and Applications (SERA 2024)

May 30-June 1, 2024
Venue: Hilton Waikiki Beach, Honolulu, Hawaii, USA
https://acisinternational.org/conferences/sera-2024/
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# Program at a Glance

**Venue:** Hilton Waikiki Beach, Grand Ballroom on the 3rd floor, Honolulu Hawaii, USA

## Day 1 - Thursday, May 30, 2024

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<tr>
<th>Time (EST)</th>
<th>Activity</th>
<th>Concurrent Sessions</th>
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<tbody>
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<td>8:00 – 10:30 AM</td>
<td>Registration (Grand Ballroom on the 3rd floor)</td>
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<tr>
<td>8:20 - 8:40 AM</td>
<td>Opening Ceremony</td>
<td>Plenary Session (Grand Ballroom on the 3rd floor)</td>
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<tr>
<td>8:40 – 9:40 AM</td>
<td>Keynote Speech</td>
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<td>9:40 – 10:00 AM</td>
<td>Coffee Break</td>
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<tr>
<td>10:00AM – 12:00 PM</td>
<td>Sessions</td>
<td>W1: Next Generation Ecosystems(1)</td>
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<tr>
<td>12:00 – 1:00 PM</td>
<td>Luncheon (complimentary) (Grand Ballroom on the 3rd floor)</td>
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<tr>
<td>1:00 – 3:00 PM</td>
<td>Sessions</td>
<td>W1: Next Generation Ecosystems(2)</td>
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<tr>
<td>3:00 - 3:20 PM</td>
<td>Coffee Break</td>
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<tr>
<td>3:20 – 5:20 PM</td>
<td>Sessions</td>
<td>W1: Next Generation Ecosystems(3)</td>
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<tr>
<td>5:30 - 7:00 PM</td>
<td>Dinner Banquet &amp; Award Ceremony (complimentary) (Grand Ballroom on the 3rd floor)</td>
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Room 3: Board room for conference officers

※ W: Workshop, SS: Special Session, TS: Technical Session
### Day 2 - Friday, May 31, 2024

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<td></td>
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<td>Room 1</td>
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<tr>
<td>8:00 – 10:00 AM</td>
<td>Sessions</td>
<td>SS5: Software Development, Quality Assurance</td>
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<td>10:00 – 10:20 AM</td>
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<td>10:20 AM – 12:00 PM</td>
<td>Sessions</td>
<td>TS1: Machine Learning</td>
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<td>12:00 – 1:00 PM</td>
<td>Luncheon (complementary) (Grand Ballroom on the 3rd floor)</td>
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<td>1:20 – 3:00 PM</td>
<td>Sessions</td>
<td>TS3: Chat GPT</td>
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<td>3:00 - 3:20 PM</td>
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<td>3:20 – 5:40 PM</td>
<td>Sessions</td>
<td>TS5: Artificial Intelligence</td>
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## Day 3 - Saturday, June 1, 2024

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<th>Time (EST)</th>
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<td><strong>Room 1</strong></td>
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<tr>
<td>8:00 – 10:00 AM</td>
<td>Sessions</td>
<td>TS7: Software Development</td>
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<tr>
<td>10:00 – 10:20 AM</td>
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<td>Coffee Break</td>
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<tr>
<td>10:20 AM – 12:40 PM</td>
<td>Sessions</td>
<td>TS9: Data Analytics</td>
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<tr>
<td>12:40 – 12:45 PM</td>
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<td>Closing Remark</td>
</tr>
<tr>
<td>1:00 - 5:00 PM</td>
<td>Conference Organization Committee Meeting</td>
<td>(This event is only for conference organizers)</td>
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Keynote

ICT-based Digital Agriculture

Hyun Yoe Ph. D.

Director of AI based Smart Agriculture Grand ICT Research Center (A-GITRC)

Professor, Sunchon National University, Korea

yhyun@scnu.ac.kr

Abstract

Digital agriculture based on ICT represents an approach that integrates modern technologies into the field of agriculture to enhance productivity and realize sustainable farming practices. Here are some of the key technologies involved in digital agriculture:
First, remote sensing and monitoring systems allow real-time observation and data collection on crop conditions.
Second, precision agriculture techniques optimize the use of pesticides and fertilizers.
Third, the introduction of automated agricultural machinery reduces reliance on manual labor by mechanizing tasks, increasing efficiency.
Overall, ICT-based digital agriculture maximizes the efficiency of agricultural practices, contributes to environmental protection, and provides benefits to both consumers and producers, offering a new paradigm in agriculture.

Biography

Hyun Yoe is Director of AI based Smart Agriculture Grand ICT Research Center (A-GITRC) at Sunchon National University, Korea. A-GITRC is supported by the Ministry of Science and ICT. He is a Professor of Department of Artificial Intelligence engineering and a Chairman of Dept. of Smart Agriculture of Graduate School, Sunchon National University. He previously worked as a researcher at the Korea Telecom Research Center. Nowadays, his research interests are in Smart Farming Technology and related areas. He is a vice president of Korea Association of Smart-Farm Industry, which is an association of Smart-Farm companies in Korea. He is one of the premier experts on Industrial approaches to Smart Farming Technology. He is deeply interested in the standardization of smart farming technology these days, and he is making a lot of effort to make smart farming standards that industries will use.
Program in Detail

Day 1 - Thursday, May 30, 2024

8:00 – 10:30 AM – Registration
Foyer

8:20 – 8:40 AM – Opening Ceremony
Auditorium

8:40 – 9:40 AM – Keynote Dr. Hyun Yoe
Auditorium

9:40 – 10:00 AM – Coffee Break
Foyer

10:00 AM – 12:00 PM -- Workshop 1: Next Generation Ecosystems (1) Room 1
Chair: Prof. Masahide NAKAMURA, Kobe University (Grand Ballroom on the 3rd floor)

1. A Study of Efficient Needs-Based Service Development Using Software Upcycling
   Takuya Nakata, Sinan Chen, Sachio Saiki, and Masahide Nakamura

2. A Preliminary Study on Self Contained Libraries in the NPM Ecosystem
   Jaisi Pongchai, Brittany Reid, Raula Gaikovina Kula

3. Porting a Python Application to the Web Using Django: A Case Study of an Archaeological Image Processing System
   Hikaru Tomita, Mariko Sasakura, Kinari Nishiura, Hiroki Inayoshi, Akito Monden

   Toru Nakamichi, Kinari Nishiura, Mariko Sasakura, Akito Monden

10:00 AM – 12:00 PM – Special Session 1: Methodologies of Advanced Software Room 2
Chair: Takaaki Goto (Toyo University, Japan) (Grand Ballroom on the 3rd floor)

1. Need of Public-Private Healthcare Collaboration for managing seasonal Dengue Fever in West Bengal
   Anwesha Nag, Takaaki Goto, Subhankar Roy, Partha Ghosh

2. A machine learning based automated model for managing student dropout

3. A Spatial Data Pipeline for Streaming Smart City Data
   Chase Carthen, Araam Zaremehrjardi, Vinh Le, Carlos Cardillo, Alireza Tavakkoli, Sergiu M. Dascalu, Frederick C. Harris Jr University of Nevada, Reno

4. SpeciServe, a gRPC Infrastructure Concept
   Chase Carthen, Araam Zaremehrjardi, Zachary Estreito, Alireza Tavakkoli, Frederick C. Harris Jr., Sergiu M. Dascalu University of Nevada, Reno

5. AI-Driven Analysis and Prediction of Energy Consumption in NYC’s Municipal Buildings
   Hossein Jamali, Sergiu M. Dascalu, Frederick C. Harris, Jr
12:00 – 1:00 PM – Luncheon (complimentary) 

1:00 – 3:00 PM -- Workshop 1: Next Generation Ecosystems (2) 
Chair: Prof. Masahide NAKAMURA, Kobe University

1. Long-Term Fine-grained Forecasts of Emergency Demand Using EMS Big Data and Regional Mesh Population Estimates
   Masaki Kaneda, Sinan Chen, Masahide Nakamura, Sachio Saiki

2. Implementing a remote task execution service for automated management of hybrid meeting spaces
   Takeshi Yoshida, Sinan Chen, Masahide Nakamura, Sachio Saiki

   Hiro Okamoto, Sinan Chen, Masahide Nakamura, Sachio Saiki

4. Evaluating Recognition AI and Personal Memories Using Time-Series Images in Daily Activities
   Raiki Saito, Sinan Chen, Sachio Saiki, and Masahide Nakamura

1:00 – 3:00 PM -- Special Session 2: Signal Processing and Analysis
Chair: Seiichi SERIKAWA (Kyushu Institute of Technology)

1. *Proposal of Automatic Sirocco Fan Washing System
   Momoka Shiraishi, Haru Okazaki, Seiichi Serikawa, Yuhki Kitazono

2. Segmentation Method of Lunchbox Images by Weight Optimization using Color Texture Dissimilarity
   Qian Yang Yang, Koki Hayakawa, Seiji Nishifuji, Shenglin Mu, Shota Nakashima

3. Observation and Evaluation for Individual Student using Learning Analytics of Software Programming and Functional Questionnaire
   Motoi Nakao, Yuhei Oomachi

4. Extraction and Application of Introspection using LegoR Serious PlayR Combined with Software Method
   Motoi Nakao, Yuhei Oomachi, Michiko Matsuda

3:00 – 3:20 PM – Coffee Break

3:20 – 5:20 PM -- Workshop 1: Next Generation Ecosystems (3) 
Chair: Prof. Masahide NAKAMURA, Kobe University

1. Characterising Contributions that Coincide with Vulnerability Mitigation in NPM Libraries
   Raksit Rojpaisarnkit, Hathaichanok Damrongtiri, Christoph Treude, Ali Ouni and Raula Gaikovina Kula

2. Contributing Back to the Ecosystem: A User Survey of NPM Developers
   Supatsara Wattanakriengkrai, Christoph Treude, Raula Gaikovina Kula
3. Extracting Educational Code Scenarios from Python Textbooks, Hathaichanok Damrongsiri
   Raksit Rojpaisarnkit, Indira Febriyanti, Dong Wang, Christoph Treude and Raula Gaikovina Kula

4. Should I Drop Everything? An Exploratory Study on Developer Responses to the Log4JShell Vulnerability
   Vittunyuta Maeprasart, Ali Ouni, Raula Gaikovina Kula

3:20 – 5:20 PM -- Special Session 3: Information Management, Big Data Room 2
Chair: Teruhisa Hochin, Kyoto Institute of Technology (Grand Ballroom on the 3rd floor)

1. Using 2-gram to Detect Potential Appropriate Respondents to Questions at Q&A Sites
   Yuya Yokoyama

2. Revised Transition Method in Impression Spaces for Multimedia Positive Computin
   Teruhisa Hochin

3. Applying Impression Evaluation Method by Space to Multimedia Data Retrieval Using
   Impression Words
   Teruhisa Hochin, Tran Thi Bich Lien

4. Clarifying Specification Semantics of Impression Evaluation Method by Space Based on Peaks
   Teruhisa Hochin

5:30 – 7:00 PM – Dinner Banquet & Award Presentation (complimentary)
   (Grand Ballroom on the 3rd floor)
Day 2 - Wednesday, May 24, 2023

8:00 – 10:00 AM – Special Session 5: Software Development, Quality Assurance  Room 1
Chair: Kinari Nishiura, Kyoto Institute of Technology  (Grand Ballroom on the 3rd floor)

1. Identifying Security Bugs in Issue Reports: Comparison of BERT, N-gram IDF and ChatGPT
   Daiki Yokoyama, Kinari Nishiura, and Akito Monden

2. Global Alignment Learning For Code Search
   Juntong Hong, Eunjong Choi, Kinari Nishiura, and Osamu Mizuno

   Soshi Inoue, Kinari Nishiura, Eunjong Choi, and Osamu Mizuno

4. A Comparative Study on COSMIC FP approximation with Deep Learning and Conventional Machine Learning
   Kaoru Yokogawa, Masashi Hiroishi, Sousuke Amasaki, Hirohisa Aman, and Tomoyuki Yokogawa

5. A Multi-Aspect Evaluation of DL-based SQLi Attack Detection Models
   Pattara Leelaprute, Yuki Kase, Sousuke Amasaki, Hirohisa Aman, and Tomoyuki Yokogawa

6. An Application of Program Slicing and CodeBERT to Distill Variables With Inappropriate Names
   Yahiro Mori, Hirohisa Aman, Sousuke Amasaki, Tomoyuki Yokogawa, Minoru Kawahara

8:00 – 10:00 AM – Special Session 6: Bioinstrumentation Affective Computing  Room 2
Chair: Naruki Shirahama (Prof. Ph.D)  (Grand Ballroom on the 3rd floor)

1. Quantitative Analysis of Conversational Response Nuances Using Visual Analog Scale, Data Visualization, and Cluster
   Naruki Shirahama, Shinichi Kondo, Keiji Matsumoto, Kenji Moriya, Naofumi Nakaya, Kazuhiro Koshi, Satoshi Watanabe

2. A Study of the Distribution Between Visual Analog Scale and Likert Scale for Subjective Evaluation of Like-Dislike
   Satoshi Watanabe, Naofumi Nakaya, Yuji Matsumoto, Naruki Shirahama

3. A Study on Generation of Spectrogram for Detection of Venous Needle Dislodgement by Image Recognition Using Machine Learning
   Naofumi Nakaya, Mutsuki Koizumi, Satoshi Watanabe, Naruki Shirahama, Takayuki Abe, Akihiro Watanabe

4. Evaluation of Machine Tool Operating State Estimation using Channel State Information
   Takanori MATSUZAKI, Shinjo KATO, Yoshihiro ASANO, Yuga SAKO, Kozo HORIUCHI, Hiroshi SHIRATSUCHI
10:00 – 10:20 AM – Coffee Break

10:20 AM – 12:00 PM -- Technical Session 1: Machine Learning
Chair: Prof. Hong Cheng, Southern Arkansas University
(Grand Ballroom on the 3rd floor)

1. Multi Label Sound Classification using Deep Learning Models
   *Tasnim Akter Onisha, Jongyeop Kim and Jongho Seol*

2. Multi-Class Label Detection and Bounding Box Regression Using Vision Transformer with a Customized Loss Function
   *Hong Cheng and Rupesh Konduru*

3. Leveraging Conditional Generative Adversarial Networks for cosmic microwave background separation
   *Saurabh Shinde*

   *Cemil Emre Yavas, Jongyeop Kim and Lei Chen*

5. Illustration or Illusion? Reassessing the Use of Machine Learning in Phishing Email Detection
   *Arifa Islam Champa, Md Fazle Rabbi and Minhaz Zibran*

10:20 AM – 12:00 PM -- Technical Session 2: Large Language Model & Security
Chair: Hossein Jamali, University of Nevada Reno
(Grand Ballroom on the 3rd floor)

1. Improving Accuracy of LLM-based Code Clone Detection Using Functionally Equivalent Methods
   *Ryutaro Inoue and Yoshiki Higo*

   *Chihiro Yoshida, Makoto Matsushita and Yoshiki Higo*

3. Securing Against Deception: Exploring Phishing Emails Through ChatGPT and Sentiment Analysis
   *Shahrzad Sayyafzadeh, Mark Weatherspoon and Hongmei Chi*

4. A Method for Word Extraction of Language-Specific Phrases for Lyric Data of Different Languages in the Same Song and Its Application to Decoding Cultural Nuances in Dynamic Equivalence: A Case Study of Let It Go from Frozen
   *Fan Cheng and Takafumi Nakanishi*

12:00 – 1:00 PM – Luncheon (complementar)
(Grand Ballroom on the 3rd floor)
1:20 PM – 3:00 PM -- Technical Session 3: Chat GPT and Data Processing  Room 1
Chair: Jongyeop Kim, Georgia Southern University (Grand Ballroom on the 3rd floor)

1. Analyzing ChatGPT Assistance in Programming
   Costain Nachuma, Md Fazle Rabbi, Arija Champa and Min haz Zibran

   Xianshan Qu, Fei Zuo, Xiaopeng Li and Junghwan Rhee

3. Discovering different parties, factions, and close politicians using a word importance derivation method for parliamentary proceedings data
   Shota Tamaru, Ryotaro Okada, Ayako Minematsu and Takafumi Nakanishi

4. Integrated Search Method based on Municipal Attributes and Issue Similarities for MaaS Precedents
   Suzuto Kirishima, Ryotaro Okada, Ayako Minematsu and Takafumi Nakanishi

1:20 PM – 3:00 PM -- Technical Session 4: Block Chain  Room 2
Chair: Abhilash Kancharla, The University of Tampa (Grand Ballroom on the 3rd floor)

1. Improving Reliability in Hybrid Cross-Chain Models through Adaptive Thresholds with a Performance and Adaptability
   Jongho Seol, Jongyeop Kim and Abhilash Kancharla

2. Optimizing Cross-Chain DeFi and Smart Contracts in Stochastic Integration
   Jongho Seol, Jongyeop Kim and Abhilash Kancharla

3. Utility-Based Routing in Payment Channel Networks: A Tradeoff Between Utility And Privacy
   Suhan Jiang, Fei Zuo and Jie Wu

4. Project-based Learning in Software Engineering Education: Integrating Blockchain-Oriented Repositories in SE Curriculum and Coursework
   Md Jobair Hossain Faruk, Masrura Tasnim and Jerry Q. Cheng

3:00 – 3:20 PM – Coffee Break  Foyer
3:20 PM – 5:40 PM -- Technical Session 5: Artificial Intelligence  Room 1
Chair: Jongyeop Kim, Georgia Southern University (Grand Ballroom on the 3rd floor)

1. Reinforcement Learning Architecture for Facial Skin Treatment Recommender
   Jennifer Kim Jin, Khalil Dajani, Mira Kim, Soo Dong Kim, Bilal Khan and Daniel Hyun Jin

2. Revising the Problem of Partial Labels from the Perspective of CNNs’ Robustness
   Xin Zhang, Yuqi Song, Wyatt McCurdy, Xiaofeng Wang and Fei Zuo

3. A Robust Attention-based Convolutional Neural Network for Monocular Depth Estimation
   Yuqi Song, Xin Zhang, Bokai Yang, Fei Zuo and Xianshan Qu

4. DiffECG: A Versatile Probabilistic Diffusion Model for ECG Signals Synthesis
   Nour Neifar, Achraf Ben-Hamadou, Afeef Mdaffar and Mohamed Jmaiel

5. Design of AI-based Smart Crop Harvesting System
   Seungjae Kim, Hyun Yoe and Meonghun Lee

Chair: Farjana Z. Eishita, PhD, Idaho State University (Grand Ballroom on the 3rd floor)

1. Data Guard: Android Application to Monitor Security Threat in Background Data Transmission
   Rifat Ara Tasnim, Farjana Eishita and Minhaz Zibran

2. Detection of Cyber Attacks on Cloud Based Microservices with Distributed Features
   Wonjun Lee and Yung Ryn Choe

3. Data Guard: Android Application to Monitor Security Threat in Background Data Transmission
   Rifat Ara Tasnim, Farjana Eishita and Minhaz Zibran

4. Mapping Cyberattack Patterns and Detection: An Azure Sentinel Approach
   Chidozie Odigbo, Hayden Wimmer and Jongyeop Kim

5. Automatic Configurator to Prevent Attacks for Azure Cloud System
   Chijung Jung, Yung Ryn Choe, Junghwan Rhee and Yonghwi Kwon
Day 3 - Saturday, June 1, 2024

8:00 AM – 10:00 AM -- Technical Session 7: Software Development Room 1
Chair: Brennan Ward, University of South Florida (Grand Ballroom on the 3rd floor)

1. Automated Theory Substitution: Toward Proof-Driven Software Development
   John Scebold, Jared Ziegler, Emily Gray and Eric Bond

2. Preventing Variadic Function Attacks Through Argument Width Counting
   Brennan Ward, Kevin Dennis, Gabriel Laverghetta, Parisa Momeni and Jay Ligatti

3. A study on ARIMA-based melon size prediction and monitoring system design
   Sangmin Lim, Meonghun Lee and Hyun Yoe

4. What is Asked About Ionic on Stack Overflow (SO) ? An Empirical Study
   Fatima Ezzahra Chaabi and Reem Alfayez

5. SBOM Challenges for Developers: From Analysis of Stack Overflow Questions
   Wataru Otoda, Tetsuya Kanda, Yuki Manabe, Katsuro Inoue and Yoshiki Higo

8:00 AM – 10:00 AM -- Technical Session 8: Software Development Room2
Chair: Yinh Le, University of Nevada Reno (Grand Ballroom on the 3rd floor)

1. Leveraging Shared Accelerators in Kubernetes Clusters with rOpenCL
   Rui Alves and José Rufino

2. Exploiting CPU Clock Modulation for Covert Communication Channel
   Shariful Alam, Jidong Xiao and Nasir Eisty

3. Adaptive Frequency Cluster-Level Performance Profiler for Multi-Domain Applications
   Hoyong Lee, Hayeon Park and Chang-Gun Lee

4. Performance Analysis of Quantum Computer Simulators across Different Environments
   Nozomi Aoki, Masafumi Yamazaki, Akira Hirai, Mari Yamaoka, Naoto Fukumoto, Akihiko Kasagi and Masato Oguchi

10:20 AM – 12:40 PM – Technical Session 9: Data Analytics Room 1
Chair: Brennan Ward, University of South Florida (Grand Ballroom on the 3rd floor)

1. Marketing Insight Discovery using Approximate Inverse Model Explanations (AIME):
   Explanatory Derivation of Response Estimates to Campaigns for Marketing Data
   Takafumi Nakanishi

2. Revisiting Program Suitability for Fault Localization with Large Dataset and Various Mutation Operators
   Hikaru Kubo, Yoshiki Higo and Shinji Kusumoto
3. Decade-long Utilization Patterns of ICSE Technical Papers and Associated Artifacts
   *Sharif Ahmed, Rey Ortiz and Nasir Eisty*

4. The Discovery of Aesthetic Notions of the Four Seasons in Sandaishu, the Three Imperial Anthologies of Waka Poetry Using Approximate Inverse Model Explanations (AIME)
   *Aiha Ikegami and Takafumi Nakanishi*

5. Hybrid ASCII Art Extraction Algorithm Based on String Distance
   *Xiujuan Wang, Xiaotong Wu, Haochen Shi and Shuaibing Lu*

**10:20 AM – 12:40 PM – Technical Session 10: Internet of Things**

**Room 2**

Chair: Chase Carthen (Grand Ballroom on the 3rd floor)

1. A Model-Driven Approach for Designing and Validating ABAC Policies
   *Duc-Hieu Nguyen, Yuichi Sei, Yasuyuki Tahara and Akihiko Ohsuga*

2. Design of REST API Client for Conversational Agent using Large Language Model with Open API System
   *SeongGyeol Park, Ahtae Kim, Sookyung Lee, Haeun Lee, Chayapol Kamyod, Cheong Ghil Kim*

**12:40 – 12:45 PM – Closing Remark**

**1:00 – 5:00 PM – Conference Organization Committee Meeting (Organizers only)**