

# SOMET 2025

The 24<sup>th</sup> International Conference on Intelligent Software Methodologies, Tools, and Techniques

## Conference Program

### Kitakyushu, Japan

<https://www.i-somet.org/somet2025/index.html>

All times are according to Japan Standard Time (JST), UTC +9

Each symbol represents (Category)- (Paper ID)

Regular papers: 20 min presentation and 5 min questions

**Short papers (Red):** 5 min presentation and 5 min questions

☐ : Online (maybe)

#### Meaning of Symbol

| Symbol | Session (Category)                                     |
|--------|--------------------------------------------------------|
| A      | Software Reliability, Quality, and Methodologies       |
| B      | AI-Driven Tools and Techniques in Software Engineering |
| C      | Optimization, Planning, and Decision Support Systems   |
| D      | Modeling, Simulation, and Process Planning             |
| E      | Embedded, IoT, and Real-Time Systems                   |
| F      | Computer Vision and Multimedia Analysis                |
| G      | Natural Language Processing and Semantic Technologies  |
| H      | Healthcare, Medical Informatics, and Bioinformatics    |
| I      | Monitoring, Risk Reduction, and Anomaly Detection      |
| J      | Ethical and Responsible AI in Software                 |

#### Note:

- Before presentations, all speakers should connect the Wi-Fi in each room.
- All speakers should enter the Zoom and share screen.
- The Zoom URL is informed in email.

\*This conference supported by Kitakyushu City, Kitakyushu Convention and Visitors Association.



**September 23<sup>rd</sup>, Tuesday, 2025**

*Self-sightseeing etc.*

Japan standard time (JST) 17:00-18:00    **REGISTRATION**

At Entrance Hall in Kitakyushu International Conference Centre,  
3-9-30 Asano, Kokurakita-ku, Kitakyushu

**September 24<sup>th</sup>, Wednesday, 2025**

Japan standard time (JST) AM 8:30-9:00    **REGISTRATION**

## < Room A >

9:00-9:30 Opening

**Session Chair: Prof. Hamido Fujita**

Official announcement for the SOMET 2026 in Kuala Lumpur (Malaysia),  
**Prof. Ali Selamat (UTM)**

9:30-10:30 Keynote Speech 1

**Session Chair: Prof. Hamido Fujita**

"Generative AI Meets the Digital Twin: Rethinking Operations Management for the  
Intelligent Enterprise"

**Prof. Roberto Revetria, University of Genoa, Italy**

**10:30-10:50    COFFEE BREAK**

10:50-11:20    **Invited Paper**

**Session Chair: Prof. Hamido Fujita**

|      |                                                                              |                                                                                                                                                                                                                                                                                                                                          |
|------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H-54 | <b>Mareen: AI-Gamified Rehabilitation System for Traumatic Hand Injuries</b> | Hanan Aljuaid (Princess Nourah Bint Abdulrahman University)<br>Rahaf Masmali (Princess Nourah Bint Abdulrahman University)<br>Shahad Alhajri (Princess Nourah Bint Abdulrahman University) *<br>Abrar Alghamdi (Princess Nourah Bint Abdulrahman University)<br>Deem Abdulrahman Almutairi (Princess Nourah Bint Abdulrahman University) |
|------|------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

11:25-12:45

**Session Chair: Prof. José Machado**

|      |                                                      |                                                             |
|------|------------------------------------------------------|-------------------------------------------------------------|
| H-76 | <b>PulsXPert Health Disorder Detection Prototype</b> | Hanan Adlan (Princess Nourah bint Abdulrahman University) * |
|------|------------------------------------------------------|-------------------------------------------------------------|

|      |                                                                                           |                                                                                                                                                                  |
|------|-------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| H-84 | <b>A Web-Based MRI Simulator with Knowledge-Based AI Assistance for Medical Education</b> | Liyana BURHANUDDIN (UTM)*<br>S M TUHIN (UTM)<br>Nur Hayati Jasmin (UNISZA)<br>SITI NUR KHADIJAH AISHAH IBRAHIM (UTM)<br>Ali Selamat (UTM)<br>Hamido Fujita (UTM) |
| H-47 | <b>An Ontology-based Web Platform for Medical Care on Transatlantic Cruises</b>           | Hugo Baptista (University of Minho)<br>Hugo Peixoto (University of Minho) *<br>Luís Gomes (University of Azores)<br>José Machado (University of Minho)           |

## 12:45-14:00 LUNCH BREAK

14:00-15:20

**Session Chair: Prof. YUTAKA Watanobe**

|      |                                                                                                  |                                                                                                                                                           |
|------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| H-58 | <b>Multi-Method Explainable Framework for EU Regulatory-Compliant ICD-10 Coding</b>              | Mario Bonfrisco (University of Genoa) *                                                                                                                   |
| H-74 | <b>Improving Lung Nodule Segmentation in CT Scans with a Learnable PDE-Based Diffusion Block</b> | Khai Dinh Lai (University of Science, Vietnam)<br>Thai Le (University of Science, Vietnam) *<br>Thuy Thanh Nguyen (VNU University of Technology, Vietnam) |
| B-30 | <b>Systematic Review of Large Language Model Applications in Programming Education</b>           | Haruto SUZUKI (University of AIZU) *<br>Leonard Chukwualuka NNADI (University of AIZU)<br>YUTAKA Watanobe (University of AIZU)                            |

## 15:20-15:40 COFFEE BREAK

15:40-17:00

**Session Chair: Dr. Junaid Baber**

|             |                                                                                                        |                                                                                                                                                                                                                                                         |
|-------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>B-78</b> | <b>Uncertainty-Aware Modeling of Q-Values for Efficient Exploration in Deep Reinforcement Learning</b> | Jianyi WU (Shanghai University)<br>Xiaodong Yue (Shanghai University) *<br>Jie SHI (Shanghai University)                                                                                                                                                |
| <b>B-18</b> | <b>Machine Learning-Assisted Binary Search for Version Control Bisection</b>                           | Ziad Amerr (Siemens DISW) *<br>Omar Abdelkader (Siemens DISW)<br>Islam Ahmed (Siemens DISW)<br>Eman El-Mandouh (Siemens DISW)<br>Ahmed Hussam (Faculty of Engineering, Mansoura University)<br>Omar Magdy (Faculty of Engineering, Mansoura University) |
| B-61        | <b>From Text to DSL: Evaluating Grammar-Based Model Generation Using Open LLMs</b>                     | Junaid Baber (University of Grenoble Alpes) *<br>Nicolas Hili (University of Grenoble Alpes)<br>Didier Schwab (University of Grenoble Alpes)<br>Léo Challier (University of Grenoble Alpes)<br>CÉCILIA SATRIN (University of Grenoble Alpes)            |

17:10-19:00 Bus tour to Mojiko, etc.

19:00-21:00 Banquet in Marry Gold (2-21, Minato-machi, Moji-ku, Kitakyushu)

## < Room B >

11:25-12:45

**Session Chair: Prof. Jun Sasaki**

|      |                                                                                           |                                                                                                                                                                                                                                 |
|------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C-14 | <b>Reinforcement Learning for Circular Sparsest Packing Problems</b>                      | Fernanda Yamada (The University of Electro-Communications) *<br>João Paulo Gois (Federal University of ABC)<br>Harlen Costa Batagelo (Federal University of ABC)<br>Hiroki Takahashi (The University of Electro-Communications) |
| C-17 | <b>Two Methods for a Tourism Planning System Using Generative Artificial Intelligence</b> | Jun Sasaki (Yamato University) *<br>Ryusei Kobayashi (Yamato University)<br>Koki Nishiyama (Yamato University)                                                                                                                  |
| C-31 | <b>Flexy Diary: Personalized Services for Handling Weakly Planned Activities</b>          | Angelita Gozaly (University of Aizu) *<br>Evgeny Pyshkin (University of Aizu)                                                                                                                                                   |

#### 12:45-14:00 LUNCH BREAK

14:00-15:20

**Session Chair: Dr. NORMI SHAM AWANG ABU BAKAR**

|      |                                                                                                        |                                                                                                                                                                                                                                                                                                  |
|------|--------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A-77 | <b>Enhancing Academic Credential Integrity Through Blockchain-Based Verification Systems</b>           | Normi Sham AWANG ABU BAKAR (International Islamic University Malaysia) *<br>Norzariyah YAHYA (International Islamic University Malaysia)<br>Norbik Bashah IDRIS (International Islamic University Malaysia)                                                                                      |
| A-35 | <b>MANDALA.ML: A Life Cycle-Centric and Role-Aware Methodology for Agile Machine Learning Projects</b> | Michael Reiche (Coburg University of Applied Sciences) *<br>Jochen L. Leidner (University of Sheffield)                                                                                                                                                                                          |
| D-81 | <b>Knowledge Graph-Based Process Planning for CAD Models</b>                                           | Chenze Li (Shanghai Jiao Tong University)<br>Yingjie Wu (CSSC SEAGO SYSTEM TECHNOLOGY CO., LTD.)<br>Min Zhu (Shanghai Jiao Tong University)<br>Pengcheng Wu (CSSC SEAGO SYSTEM TECHNOLOGY CO., LTD.)<br>Pan Hu (Shanghai Jiao Tong University)<br>Hongming Cai (Shanghai Jiao Tong University) * |

#### 15:20-15:40 COFFEE BREAK

15:40-17:00

**Session Chair: Prof. Guido Guizzi**

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|------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| D-42 | <b>Software Engineering for Modeling, Simulation, and Collaboration in High Automation</b>                                | Horvath Laszlo (Obuda University) *<br>Levente Kovács (Obuda University)                                                                                                                                                                                                   |
| D-72 | <b>Explainable AI for Sustainable Process Planning in Wire Arc Additive Manufacturing</b>                                 | Rosa Abate (University of Naples Federico II) *<br>Guido Guizzi (University of Naples Federico II)<br>Giulio Mattera (University of Naples Federico II)<br>Luigi Nele (University of Naples Federico II)<br>Liberatina Carmela Santillo (University of Naples Federico II) |
| D-73 | <b>A Data-Driven Framework for the Evaluation of Autonomous and Traditional Berthing Maneuvers in Maritime Operations</b> | Giuseppe Franzese (University of Naples "Federico II")<br>Luisa Montella (University of Naples "Federico II") *<br>Teresa Murino (University of Naples "Federico II")<br>Andrea Somma (University of Naples "Federico II")<br>Monica Strazzullo (Grimaldi Group)           |

17:10-19:00 Bus tour to Mojiko, etc.

19:00-21:00 Banquet in Marry Gold (2-21, Minato-machi, Moji-ku, Kitakyushu)

## < Room C >

**11:25-12:45**

**Session Chair: Prof. Leonardo Galteri**

|      |                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                    |
|------|------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F-34 | <b>Prompt-Engineered Detection of AI-Generated Images</b>                                                        | Rita Ferrara (Pegaso Telematic University)<br>Leonardo Galteri (Pegaso Telematic University) *                                                                                                                                                                                                                                                                     |
| F-56 | <b>Knowledge-Infused Retrieval Boosts Few-Shot Hand Gesture Recognition on HaGRID with Vision-Language Model</b> | Enny Indasyah (Kyushu Institute of Technology) *<br>Kaori Yoshida (Kyushu Institute of Technology)                                                                                                                                                                                                                                                                 |
| F-80 | <b>A Similar Ship Plate Retrieval Method Based on Semantic Fuzzy Classification</b>                              | Yuxin Zeng (Shanghai Jiao Tong University)<br>Shenyue Ni (Shanghai Jiao Tong University)<br>Yingjie Wu (CSSC SEAGO SYSTEM TECHNOLOGY CO., LTD.)<br>Zhiye Xu (CSSC SEAGO SYSTEM TECHNOLOGY CO., LTD.)<br>Bingqing Shen (Shanghai International Studies University)<br>Shenyuan Gu (Shanghai Jiao Tong University)<br>Hongming Cai (Shanghai Jiao Tong University) * |

**12:45-14:00 LUNCH BREAK**

**14:00-15:20**

**Session Chair: Prof. Paulo Novais**

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|------|-------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| E-33 | <b>Autoware Toolbox 2: Model-Based Benchmark Suite of ROS 2 Nodes for Autonomous Driving System</b>                     | XIAOYU CHENG (Saitama University) *<br>Hiroshi Fujimoto (eSOL Co., Ltd)<br>Takuya Azumi (Saitama University)                                                                                                                                                                     |
| E-50 | <b>Deep Reinforcement Learning for Preventive Maintenance Planning under Stochastic Corrective Maintenance Dynamics</b> | Maria Grazia Marchesano (University of Naples Federico II) *<br>Gaetano Napoletano (University of Naples Federico II)<br>Guido Guizzi (University of Naples Federico II)<br>Emma Salatiello (University of Naples Federico II)<br>Valentina Popolo (Telematic University Pegaso) |
| E-53 | <b>Edge-Enabled Predictive Maintenance with Autoencoders: A Real-Time Approach</b>                                      | João Martins (Minho University - Algoritmi\Lasi)<br>Manuel Rodrigues (Minho University - Algoritmi\Lasi) *<br>Paulo Novais (Minho University - Algoritmi\Lasi)                                                                                                                   |

**15:20-15:40 COFFEE BREAK**

**15:40-17:00**

**Session Chair: Prof. Silvestro Vespoli**

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|------|-----------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I-10 | <b>Stress Monitoring Using HRV and Deep Recurrent Neural Networks for Safety in Workplace: A Comparative Analysis</b> | Ghofrane Mzoughui (ISI Ariana) *<br>Jaouhar Fattahi (Université Laval)<br>Mohamed Mejri (Laval University)<br>Sahbi Bahroun (ISI)<br>Ridha Ghayoula (U. of Moncton)                                                                                    |
| I-22 | <b>Anomalous Anomaly Detector Detection</b>                                                                           | Toshitaka Hayashi (University of Hradec Kralove) *                                                                                                                                                                                                     |
| I-45 | <b>AI-Driven Detection of Supply Chain Misreporting using Engineered Cross-Stage Features and Isolation Forest</b>    | Francesca Papa (Università degli Studi di Napoli Federico II) *<br>Andrea Grassi (Università degli Studi di Napoli Federico II)<br>Valentina Popolo (Università Telematica Pegaso)<br>Silvestro Vespoli (Università degli Studi di Napoli Federico II) |

**17:10-19:00 Bus tour to Mojiko, etc.**

**19:00-21:00 Banquet in Marry Gold (2-21, Minato-machi, Moji-ku, Kitakyushu)**

**September 25<sup>th</sup>, Thursday, 2025**

**Japan standard time (JST) AM 9:00-9:30      REGISTRATION**

**< Room A >**

**9:30-10:50**

***Session Chair: Prof. Mariko Nakano-Miyatake***

|      |                                                                                         |                                                                                                                                                                                                                                                                                                  |
|------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| F-16 | Deep Learning Based Age and Gender Recognition System                                   | Jorge Jorin_Coz (INSTITUTO POLITECNICO NACIONAL)<br>Mariko Nakano-Miyatake (INSTITUTO POLITECNICO NACIONAL)<br>Leobardo Hernandez-Gonzalez (INSTITUTO POLITECNICO NACIONAL)<br>Hector Perez-Meana (INSTITUTO POLITECNICO NACIONAL) *                                                             |
| F-28 | Dynamic facial expression recognition using geometric and deep features                 | Jose Sotelo-Barrales (Instituto Politecnico Nacional)<br>David Mata-Mendoza (Instituto Politecnico Nacional)<br>MARIKO Nakano-Miyatake (Instituto Politecnico Nacional) *<br>Hector Perez-Meana (Instituto Politecnico Nacional)<br>Enrique Escamilla-Hernandez (Instituto Politecnico Nacional) |
| F-43 | Deep Soft Multi-label-based Unsupervised Domain Adaptation for Person Re-identification | Yang Li (Shanghai University of Engineering Science)<br>Xiaoyan Jiang (Shanghai University of Engineering Science)                                                                                                                                                                               |

**10:50-11:10      COFFEE BREAK**

**11:10-12:30**

***Session Chair: Dr. Andres Hernandez-Matamoros***

|      |                                                                                                                              |                                                                                                                                                                                                       |
|------|------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| J-23 | A DIKWP-Based Value Alignment Generation Method Oriented Toward Sovereign Artificial Intelligence                            | Yingtian Mei (Hainan University) *<br>Yucong Duan (Hainan University)<br>Hien D. Nguyen (University of Information Technology)                                                                        |
| J-79 | Research on the Dependence of Large Language Models on Internal Parameterized Knowledge under Retrieval-Augmented Techniques | Yinglin Wang (Shanghai University of Finance) *<br>Shaoyang Zhu (Shanghai University of Finance and Economics)                                                                                        |
| C-49 | Optimization of Single-Track Train Schedules with Cyclic Operation Strategies                                                | Xing Wu (Shanghai University) *<br>Deyu Gao (Shanghai University)<br>Junfeng Yao (CSSC Seago System Technology Co.,Ltd)<br>Quan Qian (Shanghai University)<br>Jun Song (Hong Kong Baptist University) |

**12:30-13:45      LUNCH BREAK**

**13:45-15:05**

***Session Chair: Prof. Chi-Yo Huang***

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|------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| C-55 | Expanding Skill Sets for Autonomous Vehicle Repair via Fuzzy Multi-Objective Programming based Techniques | Yu Sun (Sun-AI International Inc.)<br>Chi-Yo Huang (National Taiwan University of Science and Technology) *<br>Shi-Yi Huang (National Taiwan University of Science and Technology)<br>Jeng-Chieh Cheng (Academia Sinica)<br>Wei-Chun Chiang (National Taiwan Normal University) |
|------|-----------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

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|-------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C-48</b> | <b>AIGC-Driven Financial Intelligence: A Hybrid Knowledge Fusion Framework for Intelligent Decision Support</b> | Dongdong Tang (Dalian Vocational Technical College) *                                                                                                                                                                                                                                                                                             |
| <b>C-44</b> | <b>Energy-Efficient Scheduling with Variable Speed a Deep Reinforcement Learning Approach</b>                   | Maria De Martino (Università degli Studi di Napoli Federico II) *<br>Andrea Grassi (Università degli Studi di Napoli Federico II)<br>Maria Grazia Marchesano (Università degli Studi di Napoli Federico II)<br>Emma Salatiello (Università degli Studi di Napoli Federico II)<br>Silvestro Vespoli (Università degli Studi di Napoli Federico II) |

## 15:05-15:25 COFFEE BREAK

15:25-16:35

**Session Chair: Prof. Maria Grazia Marchesano**

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|-------------|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>C-65</b> | <b>Analytical Hierarchy Process Based Sustainability Assessment Framework Implementation in MySQL</b> | Khursheed Ahmad (University of Genova, Italy)<br>Anastasiia Rozhok (University of Genova, Italy)<br>Roberto Revetria (University of Genova, Italy) * |
| <b>C-8</b>  | <b>Requirements for a Universal Software Platform for Multi-Criteria Decision Analysis</b>            | Mats Danielson (Stockholm University) *                                                                                                              |
| <b>I-71</b> | <b>Optimization of Physical and Financial Flows in the Inventory Routing Problem</b>                  | Khoulood Dorgham (PRISME)*<br>Fatma Essghaier (Université d'Artois)<br>Issam Nouaouri (Université d'Artois)<br>Najet Boussaa (Université d'Artois)   |

16:40-17:00 Closing Ceremony

**Session Chair: Prof. Hamido Fujita**

## < Room B >

9:30-10:50

**Session Chair: Prof. Hayaru Shouno**

|             |                                                                                                          |                                                                                                                                                                                                                                                                                                        |
|-------------|----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>H-24</b> | <b>Data Hiding for Clinical Information in DICOM Images via Reversible Halftone Fragile Watermarking</b> | Juan Eduardo Mosco-Garcia (Instituto Politecnico Nacional)<br>Manuel Cedillo-Hernandez (Instituto Politecnico Nacional) *<br>Hayaru Shouno (The University of Electro-Communications)                                                                                                                  |
| <b>H-62</b> | <b>MedEForm: Medical Data Mobile App</b>                                                                 | Shelly Sachdeva (National Institute of Technology) *<br>Subhash Bhalla (National Institute of Technology)<br>Nikita Juyal (National Institute of Technology)<br>Akshat Kumar (National Institute of Technology)                                                                                        |
| <b>H-64</b> | <b>Parasitic Egg Detection and Classification: An Overview of Recent Progress and New Challenges</b>     | Arigala Adarsh (Rajiv Gandhi University of Knowledge Technologies)<br>D. Gnanavenkata Kumar (Rajiv Gandhi University of Knowledge Technologies)<br>Reddy Palli Trisha (Rajiv Gandhi University of Knowledge Technologies)<br>Penugonda Ravikumar (Rajiv Gandhi University of Knowledge Technologies) * |

## 10:50-11:10 COFFEE BREAK

11:10-12:30

**Session Chair: Prof. Hien Nguyen**

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|------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| G-36 | <b>Extracting Core Meaning from Legal Queries Using Semantic Technologies</b>                            | Dung Dang (University of Information Technology, VNU-HCM)<br>Vuong Pham (Sai Gon University)<br>Huong Tran (University of Information Technology, VNU-HCM)<br>Minh Phan (Sai Gon University)<br>Huy Huynh (Sai Gon University)<br>Hien Nguyen (University of Information Technology, VNU-HCM) *                                                                             |
| G-63 | <b>Integrating Legal BERT-Based Embedding and ReAct Multi-Agent for an Intelligent Consulting System</b> | Tho Nguyen (University of Information Technology, VNU-HCM)<br>Hung Ngo (University of Information Technology, VNU-HCM)<br>Vuong Pham (Sai Gon University)<br>Dung Tran (University of Information Technology, VNU-HCM)<br>Anh Huynh (University of Information Technology, VNU-HCM)<br>Hien Nguyen (University of Information Technology, VNU-HCM) *                        |
| G-83 | <b>An Intelligent NLP-Based Framework for Digital Scripts Concordance and Semantic Exploration</b>       | Noor Mohamed Mohd Yousof (UNIVERSITI TEKNOLOGI MALAYSIA)<br>Ali Selamat (Malaysia-Japan International Institute of Technology)<br>Zatul Alwani Shaffie (UNIVERSITI TEKNOLOGI MALAYSIA)<br>Siti Nur Khadijah Aishah IBRAHIM (UNIVERSITI TEKNOLOGI MALAYSIA) *<br>Liyana 'Adilla Burhanuddin (UNIVERSITI TEKNOLOGI MALAYSIA)<br>Hamido Fujita (UNIVERSITI TEKNOLOGI MALAYSIA) |

#### 12:30-13:45 LUNCH BREAK

13:45-15:05

**Session Chair: Dr. Siti Nur Khadijah Aishah Binti Ibrahim**

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|------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A-6  | <b>A Novel Framework to Estimate Truck Factor in Software Repositories Using Dynamic Knowledge Decay Model</b> | Arghya Bhattacharya (Vellore Institute of Technology, Chennai)<br>Samba Narayana Duggirala (Vellore Institute of Technology, Chennai)<br>Aditya Ramdas (Vellore Institute of Technology, Chennai)<br>Muthukumaran Kasinathan (Vell Institute of Technology, Chennai) * |
| A-7  | <b>The Scenario Function contributing to Software Safety and Security</b>                                      | Tomoko Kaneko (Soka University) *<br>Kazuma Ohno (Soka University)<br>Isamu Okada (Soka University)<br>Tae Kameda (Soka Women's College)                                                                                                                               |
| A-13 | <b>Hybrid Access Control: Integrating Web2 Authentication with Blockchain Transparency</b>                     | Yutaka Watanobe (University of Aizu)<br>Banri Yasui (University of Aizu) *                                                                                                                                                                                             |

#### 15:05-15:25 COFFEE BREAK

15:25-16:35

**Session Chair: Prof. Tomoko Kaneko**

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|-----|----------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I-9 | <b>Flood Risk Reduction among Malaysian Disaster Management Agencies: Challenges and Recommendations</b> | Mohd Shahar Abdullah (Universiti Teknologi Malaysia) *<br>Ali Selamat (Universiti Teknologi Malaysia)<br>Nguyet Quang Do (Universiti Teknologi Malaysia)<br>Mohd Azlan Abu (Universiti Teknologi Malaysia) |
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|------|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| I-85 | <b>XRIS: Real-Time Web Platform for Radar Data Management and Disaster Preparedness at UTM Pagoh</b>                     | Saiful Islam Sakhawat Hossen (Universiti Teknologi Malaysia)<br>Zatul Alwani Shaffiei (Universiti Teknologi Malaysia)*<br>Aznah Nor Anuar (Universiti Teknologi Malaysia)<br>Nooradilla Abu Hasan (Universiti Teknologi MARA Kampus Seremban)<br>Muhammad Islah Sulaiman (Universiti Teknologi Malaysia)<br>Ali Selamat (Universiti Teknologi Malaysia)<br>Hamido Fujita (Universiti Teknologi Malaysia) |
| I-75 | <b>Securing Quadruped Robotics in Search and Rescue: Identifying Vulnerabilities and Enhancing Decision Intelligence</b> | Princelove Herbert (Soka University) *<br>Tomoko Kaneko (Soka University)                                                                                                                                                                                                                                                                                                                                |

**16:40-17:00 Closing Ceremony (Room A)**

**September 26<sup>th</sup>, Friday, 2025**

*Self-sightseeing etc.*

## SOMET 2025 Conference Room Map

