

## KEER2024 Presentation Schedule

Location: Zhong Shang Building, National Taichung University of Science and Technology

| November 21st, Thursday |  |   |  |   |   |
|-------------------------|--|---|--|---|---|
| 08:30<br> <br>09:00     | Welcoming Reception & Registration   |   |  |   |   |
| Parallel Session A1~A4  |  |   |  |   |   |
| 09:20<br> <br>10:20     | A1:<br><b>Kansei Engineering</b>   | A2:<br><b>Kansei Engineering</b>  | A3:<br><b>Kansei Engineering</b>   | A4:<br><b>Kansei Design</b>   |   |
|                         | Room: 7505   | Room:7506   | Room:7507  | Room:7508   |   |
|                         | Host:<br>Prof. Kuo-Pin Chang<br>張國賓教授<br>National Taichung University of Science and Technology  | Host:<br>Prof. Pei-Shan Teng<br>鄧佩珊教授<br>Providence University                              | Host:<br>Prof. Yen-Liang Wu<br>吳彥良教授<br>National Taichung University of Science and Technology | Host:<br>Prof. Hsien-Jung Wu<br>吳銜容教授<br>National Taichung University of Science and Technology |   |
|                         | Paper Number:<br>OAA-0002<br>OBA-0002<br>OAA-0003<br>OBA-0004  | Paper Number:<br>OAA-0056<br>OAA-0057<br>VAA-0005 (On-line)                                 | Paper Number:<br>OBA-0007<br>OAA-0008<br>OBA-0008<br>OAA-0009                                  | Paper Number:<br>OAA-0005<br>OBA-0005<br>OAA-0006<br>OAA-0007                                   |   |
| 10:30<br> <br>11:10     | <b>Opening Ceremony</b><br><b>Opening Remark</b><br>Tun-Shao Chen, President of National Taichung University of Science and Technology<br>Tzu-Wei Tsai, Chair of KEER 2024<br><b>Special Guests</b>  |   |  |   |   |
| 11:10<br> <br>11:30     | Coffee Break   |   |  |   |   |
| 11:30<br> <br>12:10     | <b>Keynote Speaker 1: Prof. Marina Stankovic</b><br>Chair in Architecture, interior, and product design, University of Applied Sciences HTWK in Leipzig, Germany<br>Host: Prof. Jui-Che Tu 杜瑞澤教授, National Yunlin University of Science and Technology |   |  |   |   |
| 12:10<br> <br>13:30     | Lunch & Free Time  |   |  |   |   |
| 12:10<br> <br>13:30     | Members Assembly (KEER) / International Exchange Network Forum   |   |  |   |   |
| Poster Presentation P1  |  |   |  |   |   |
| 12:10<br> <br>13:30     | Host: Prof. Min-Chi Chiu 邱敏棋教授, National Taichung University of Science and Technology   |   |  |   |   |
| Parallel Session S1~S2  |  | Parallel Session A5~A7  |  |   |   |
| 13:30<br> <br>14:30     | S1:<br><b>Innovative Design for Cultural Sustainability</b>  | S2:<br><b>Emotion Research in Southeast Asia (SEA): Bridging Cultures, Advancing Design</b> | A5:<br><b>Kansei Design</b>  | A6:<br><b>Kansei Engineering</b>  | A7:<br><b>Kansei Design</b>   |
|                         | Room:7203  | Room:7208   | Room:7505  | Room:7506   | Room:7507   |
|                         | Host:<br>Prof. Po-Hsien Lin<br>林伯賢教授<br>National Taiwan University of Arts   | Host:<br>Prof. Anitawati Mohd Lokman,<br>Universiti Teknologi MARA                          | Host:<br>Prof. Min-Yuan Ma<br>馬敏元教授<br>National Cheng Kung University                          | Host:<br>Prof. Suomiya Bao,<br>University of Tsukuba  | Host:<br>Prof. Chung-Hua Chu<br>朱中華教授<br>National Taichung University of Science and Technology |
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|---|--|---|---|--|--|--|
|   | Paper Number:<br>OCS-0001<br>OCS-0003<br>OCS-0004<br>OCS-0005  | Paper Number:<br>OCS-0006<br>VCS-0006<br>VCS-0007 (On-line)<br>VCS-0014<br>VCS-0016 (On-line) | Paper Number:<br>OBA-0009<br>OAA-0012<br>OAA-0013<br>OAA-0014(On-line)  | Paper Number:<br>OAA-0015<br>OAA-0016<br>OAA-0017<br>OAA-0018                                | Paper Number:<br>OAA-0019<br>OAA-0025<br>OAA-0026                                    |  |
| 14:30<br> <br>14:50                               | Coffee Break   |   |   |  |  |  |
| 14:50<br> <br>16:00                               | Parallel Session S3~S6   |   |   |  | Parallel Session A8~A9   |  |
|   | S3:<br><b>Innovative Design for Cultural Sustainability</b>  | S4:<br><b>Emotion Research in Southeast Asia (SEA): Bridging Cultures, Advancing Design</b>   | S5:<br><b>Exploring the Intersection of Kansei Engineering and Affective Computing in Digital Media Design Research</b> | S6:<br><b>Image and Media in Kansei Design</b>   | A8:<br><b>Kansei Engineering</b>   | A9:<br><b>Kansei Engineering</b>   |
|   | Room: 7203<br>Host:<br>Prof. Po-Hsien Lin<br>林伯賢教授<br>National Taiwan University of Arts                           | Room: 7208<br>Host:<br>Prof. Anitawati Mohd Lokman,<br>Universiti Teknologi MARA              | Room: 7505<br>Host:<br>Prof. Teng-Wen Chang<br>張登文教授<br>National Yunlin University of Science and Technology            | Room: 7506<br>Host:<br>Prof. Chun-Chih Chen<br>陳俊智教授<br>National Kaohsiung Normal University | Room:7507<br>Host:<br>Prof. Marina Stankovic,<br>University of Applied Sciences HTWK | Room: 7508<br>Host:<br>Prof. Kiersten Muenchinger,<br>University of Oregon |
| Paper Number:<br>OCS-0011<br>OCS-0014<br>OCS-0019 | Paper Number:<br>VCS-0001<br>VCS-0021(On-line)<br>VCS-0003<br>VCS-0022 (On-line)<br>VCS-0004<br>VCS-0023 (On-line) | Paper Number:<br>OCS-0015<br>OCS-0021<br>OCS-0027<br>OCS-0028<br>OCS-0030                     | Paper Number:<br>OCS-0020<br>OCS-0032<br>OCS-0040<br>VCS-0002(On-line)<br>VCS-0017(On-line)                             | Paper Number:<br>OAA-0028<br>OAA-0029<br>OAA-0030 (On-line)<br>OAA-0031                      | Paper Number:<br>OAA-0032<br>OAA-0033<br>OAA-0034                                    |  |
| 16:00<br> <br>17:30                               | National Taichung Theater Guide Tour   |   |   |  |  |  |
| 17:30<br> <br>20:30                               | Conference Banquet   |   |   |  |  |  |
| 9:00<br> <br>16:00                                | Exhibition   |   |   |  |  |  |

| November 22nd, Friday  |   |  |   |  |   |   |
|--|---|--|---|--|---|---|
| 08:30<br> <br>09:00  | Welcoming Reception & Registration  |  |   |  |   |   |
| 09:20<br> <br>10:20  | Parallel Session A10~A12  |  |   | Parallel Session B1~B2   |   | C1  |
|  | A10:<br><b>Kansei Engineering</b>   | A11:<br><b>Kansei Engineering</b>  | A12:<br><b>Kansei Engineering</b>   | B1:<br><b>Kansei for Sustainable Design</b>  | B2:<br><b>Kansei for Sustainable Design</b>                               | C1:<br><b>Kansei for Innovation Industry</b>  |
|  | Room: 7203  | Room: 7208   | Room: 7505  | Room: 7506   | Room: 7507  | Room: 7508  |
|  | Host:<br>Prof. Li-Shu Lu<br>盧麗淑教授<br>National Yunlin University of Science and Technology   | Host:<br>Prof. Kevin C. Tseng,<br>曾俊儒教授<br>National Taipei University of Technology              | Host:<br>Prof. Wei-Lun Lee<br>李維倫教授<br>National Taichung University of Science and Technology | Host:<br>Prof. Chung-Yi Chang<br>張從怡教授<br>National Taichung University of Science and Technology | Host:<br>Prof. Sheng-Fen Chien<br>簡聖芬教授<br>National Cheng Kung University | Host:<br>Prof. Chuan-Po Wang<br>王譚博教授<br>National Taichung University of Science and Technology |
|  | Paper Number:<br>OAA-0044<br>OAA-0045<br>OAA-0046<br>OAA-0047   | Paper Number:<br>OAA-0048<br>OAA-0049<br>OAA-0050<br>OAA-0051                                    | Paper Number:<br>OAA-0058<br>OAA-0059<br>OAA-0060<br>OAA-0061                                 | Paper Number:<br>OBB-0001<br>VAB-0003 (On-line)<br>VAB-0004 (On-line)                            | Paper Number:<br>OAB-0001<br>OAB-0002<br>OAB-0008<br>OAB-0009 (On-line)   | Paper Number:<br>OAC-0002<br>OAC-0003<br>OAC-0004   |
| 10:30<br> <br>11:10  | <b>Keynote Speaker 2: Prof. Henri Achten</b><br>Department of Architectural Modelling, Czech Technical University in Prague<br>Host: Prof. Ying-Hsiu Huang 黃英修 教授, National Kaohsiung Normal University |  |   |  |   |   |
| 11:10<br> <br>11:30  | Coffee Break  |  |   |  |   |   |
| 11:30<br> <br>12:10  | <b>Keynote Speaker 3: 村田智明</b><br>Managing Director of Hers Design Inc., Japan<br>Host: Prof. Li-Hui Lee 李俐慧 教授, Tunghai University   |  |   |  |   |   |
| 12:10<br> <br>13:30  | Lunch & Free Time   |  |   |  |   |   |
| 12:10<br> <br>13:30  | Members Assembly (TIK)  |  |   |  |   |   |
| 12:30<br> <br>13:30  | Poster Presentation P2<br>Host: Prof. Kuang-Chih Lo 羅光志教授, National Taichung University of Science and Technology   |  |   |  |   |   |
| 13:30<br> <br>14:30  | Parallel Session S7~S10   |  |   |  | Parallel Session A13~A14  |   |
|  | S7:<br><b>Wellbeing / Experience Quality of Life/ Healthcare</b>  | S8:<br><b>Kansei Issues in Cross-Cultural Design</b>   | S9:<br><b>Competencies Required by Different Positions for Innovation</b>                     | S10:<br><b>Kansei in Senses and Interaction</b>  | A13:<br><b>Kansei Design</b>  | A14:<br><b>Kansei Engineering</b>   |
|  | Room: 7203  | Room: 7208   | Room: 7505  | Room: 7506   | Room: 7507  | Room: 7508  |
| Host:<br>Prof. Meng-Chieh Jeffrey Lee<br>李孟杰教授<br>National Taichung University of Science and Technology | Host:<br>Prof. Kuo-Hsiang Chen<br>陳國祥教授<br>National Cheng Kung University   | Host:<br>Prof. Yong-Long Chen<br>陳永隆教授<br>National Taichung University of Science and Technology | Host:<br>Prof. Jiun-Jhy Her<br>賀俊智教授<br>National Taitung University                           | Host:<br>Prof. Yang-Cheng Lin<br>林彥呈教授<br>National Cheng Kung University                         | Host:<br>Prof. Chun-Heng Ho<br>何俊亨教授<br>National Cheng Kung University    |   |

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|---|---|---|---|--|---|---|
|   | Paper Number:<br>OCS-0023<br>OCS-0034<br>OCS-0035   | Paper Number:<br>OCS-0029<br>OCS-0031<br>OCS-0036                                 | Paper Number:<br>OCS-0012<br>OCS-0016<br>OCS-0017<br>OCS-0026                               | Paper Number:<br>OAS-0004<br>OCS-0037<br>OCS-0022<br>VCS-0005(On-line)                         | Paper Number:<br>OAA-0040<br>OAA-0041<br>OAA-0042<br>OAA-0043                           | Paper Number:<br>OAA-0052<br>OAA-0053<br>OAA-0054<br>OAA-0055                       |
| 14:30<br> <br>14:50                               | Coffee Break  |   |   |  |   |   |
| 14:50<br> <br>16:00                               | Parallel Session S11~S14  |   |   |  | Parallel Session A15~A16  |   |
|   | S11:<br><b>Wellbeing / Experience Quality of Life/ Healthcare</b>                                 | S12:<br><b>Kansei Issues in Cross-Cultural Design</b>                             | S13:<br><b>Kansei in Senses and Interaction</b>   | S14:<br><b>Kansei Approach to Sustainability Society</b>                                       | A15:<br><b>Kansei Design</b>  | A16:<br><b>Kansei Design</b>  |
|   | Room:7203   | Room:7208   | Room: 7505  | Room:7506  | Room:7507   | Room: 7508  |
|   | Host:<br>Prof. Chien-Kuo Teng<br>鄧建國教授<br>National Taiwan Normal University                       | Host:<br>Prof. Cheih-Ying Chen<br>陳潔瑩教授<br>National Taipei University of Business | Host:<br>Prof. Wen-Tsong Huang<br>黃文宗教授<br>Chung Yuan University                            | Host:<br>Prof. Wang-Chin Tsai<br>蔡旺晉教授<br>National Yunlin University of Science and Technology | Host:<br>Prof. Shih-Yun Lu<br>盧詩韻教授<br>National Taichung University of Education        | Host:<br>Prof. Meng-Cong Zheng<br>鄭孟淙教授<br>National Taipei University of Technology |
| Paper Number:<br>OAS-0005<br>OCS-0008<br>OCS-0013 | Paper Number:<br>VAS-0001(On-line)<br>VCS-0008(On-line)<br>VCS-0009(On-line)<br>VCS-0020(On-line) | Paper Number:<br>OCS-0007<br>OCS-0018<br>OCS-0033                                 | Paper Number:<br>OCS-0009<br>OCS-0010<br>OCS-0038<br>VCS-0015(On-line)<br>VCS-0019(On-line) | Paper Number:<br>OAA-0035<br>OAA-0036<br>OAA-0037<br>OAA-0038                                  | Paper Number:<br>OAA-0062<br>(On-line)<br>OAA-0063<br>OAA-0066<br>VAA-0006<br>(On-line) |   |
| 16:20<br> <br>17:10                               | Closing Ceremony<br>Closing Remarks<br>Best Paper Awards  |   |   |  |   |   |
| 9:00<br> <br>16:00                                | Exhibition  |   |   |  |   |   |

**Paper Code:**

|                                  |   |  |
|----------------------------------|---|--|
| Presentation Form:               | Paper Length:                                   | Topic:   |
| O: Oral<br>V: Video<br>P: poster | A: Long<br>B: Short<br>C: Special session paper | A: Kansei Engineering / Kansei Design<br>B: Kansei for Sustainable Design<br>C: Kansei for Innovation Industry<br>S: Special session |

## **Thesis Table of Contents**

## Thesis Table of Contents

### [A1] Topics: Kansei Engineering

Host: Prof. Kuo-Pin Chang 張國賓教授, National Taichung University of Science and Technology

Location: Zhong Shang Building 7505

Date: Thursday, November 21st, 2024

| Session | Time                | Number   | Author                                | Paper Title   |
|---------|---------------------|----------|---------------------------------------|---|
| A1      | 09:20<br> <br>09:35 | OAA-0002 | Shimon Honda,<br>Hideyoshi Yanagisawa | Kinetic Design Generation System Based on Mathematical Modeling of Curiosity and Interest   |
| A1      | 09:35<br> <br>09:50 | OBA-0002 | Hiroharu Natsume,<br>Shogo Okamoto    | Time-Series Prediction of Subjective Experiences Recorded Using the Temporal Dominance of Sensations Method via Reservoir Network |
| A1      | 09:50<br> <br>10:05 | OAA-0003 | Keisuke Okahara,<br>Shin'ya Nagasawa  | Conditions for High Prices for Luxury Bags in the Secondary Market: Qualitative Comparative Analysis (QCA)                        |
| A1      | 10:05<br> <br>10:20 | OBA-0004 | Shogo Okamoto,<br>Hiroharu Natsume    | Reservoir Network for Time-Series Prediction of Preference Towards Coffee Products  |

### [A2] Topics: Kansei Engineering

Host: Prof. Pei-Shan Teng 鄧佩珊教授, Providence University

Location: Zhong Shang Building 7506

Date: Thursday, November 21st, 2024

| Session | Time                | Number                | Author                                      | Paper Title  |
|---------|---------------------|-----------------------|---|--|
| A2      | 09:20<br> <br>09:35 | OAA-0056              | Fang-Yu Liao,<br>Chia-Han Yang              | Exploring the Appeal Factors of Dopamine Dressing Short Videos on Douyin Through Evaluation Grid Method                |
| A2      | 09:35<br> <br>09:50 | OAA-0057              | Ting-Cheng Chang,<br>Tzu-Wei Tsai           | Miryoku Timbre: Exploring the Appeal of Male and Female Voices Through Miryoku Engineering                             |
| A2      | 09:50<br> <br>10:05 | VAA-0005<br>(On-line) | Anjie Su,<br>Junyi Shen,<br>Shinichi Koyama | Exploring the Relationship Between Visual Stimuli Speed and Comfort: The Role of Interoceptive Sensitivity and Anxiety |

**[A3] Topics: Kansei Engineering**

**Host: Prof. Yen-Liang Wu 吳彥良教授, National Taichung University of Science and Technology**

**Location: Zhong Shang Building 7507**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number    | Author   | Paper Title   |
|---------|---------------------|-----------|--|---|
| A3      | 09:20<br> <br>09:35 | OBA -0007 | Tseng-Ping Chiu,<br>Ya-Chun Yang,<br>Sri Devi Ravana,<br>Nasa Dina,<br>Guo-Ruei Huang                          | Visual Perception, Emotions, and Culture: A Pilot Study of Cultural Differences in Visual Merchandising Display and Shopping Attributions on Consumer's Emotional Response of E-Commerce Platform |
| A3      | 09:35<br> <br>09:50 | OAA -0008 | Yoshihiro Konagaya,<br>Issei Hashimoto,<br>Akihito Kobayashi,<br>Keigo Iwamoto,<br>Kent Nagumo,<br>Akio Nozawa | Familiarity-Based Categorization of Sound Field Context Constituting Atmosphere   |
| A3      | 09:50<br> <br>10:05 | OBA -0008 | Pi-Jan Chang,<br>Chia-Hui Lin  | Moisture-Proofing Effect of Waterproof Coatings on Indoor Wall Surfaces   |
| A3      | 10:05<br> <br>10:20 | OAA -0009 | Yuga Oba,<br>Kenta Nagai,<br>Hisaya Tanaka,<br>Jue Zhang   | Considerations for Interface Design in MR with Respect to Subjective Distance Perception  |

**[A4] Topics: Kansei Design**

**Host: Prof. Hsien-Jung Wu 吳銜容教授, National Taichung University of Science and Technology**

**Location: Zhong Shang Building 7508**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number   | Author   | Paper Title   |
|---------|---------------------|----------|--|---|
| A4      | 09:20<br> <br>09:35 | OAA-0005 | Tomoko Yonezawa,<br>Shinji Iwata,<br>Naoto Yoshida,<br>Kenji Mase,<br>Yu Enokibori | Controlling Age and Similarity to User's Face for Trustworthiness of Interactive Agent: Generative Faces and Acceptability  |
| A4      | 09:35<br> <br>09:50 | OBA-0005 | Ippeita Dan  | Developing Neuromarketing Applications for fNIRS: A Brief Summary of Ongoing Practices                                      |
| A4      | 09:50<br> <br>10:05 | OAA-0006 | Shotaro Kushi,<br>Hideyoshi Yanagisawa   | Insight and In-Depth Interviews an Interdisciplinary Approach with the Meta-Perspective Structure and Insight Discovery Map |
| A4      | 10:05<br> <br>10:20 | OAA-0007 | Aika Kuboki,<br>Jue Zhang  | Improving Motivation in a Foreign Language Learning Application Using VR  |

**[S1] Topics: Innovative Design for Cultural Sustainability****Host: Prof. Po-Hsien Lin 林伯賢教授, National Taiwan University of Arts****Location: Zhong Shang Building 7203****Date: Thursday, November 21st, 2024**

| Session | Time                | Number   | Author  | Paper Title   |
|---------|---------------------|----------|---|---|
| S1      | 13:30<br> <br>13:45 | OCS-0001 | Yi-Hang Lin,<br>Po-Hsien Lin                      | A Study on Qualia's Experiential Model From the Concept of Service Innovation Design: A Case of 7-Eleven Service Experience in Taiwan |
| S1      | 13:45<br> <br>14:00 | OCS-0003 | Chang-Wei Chang,<br>Ying-Shueh Shih,<br>Yi-Fu Hsu | The Impact of Reusing Old Houses on Community Sustainable Development: A Case Study of Longquan Street in Taipei City                 |
| S1      | 14:00<br> <br>14:15 | OCS-0004 | Yi-Fu Hsu,<br>Chang-Wei Chang,<br>Chih-Long Lin   | Generative Artificial Intelligence to Enhance the Sustainability of Traditional Crafts: The Case of Ceramic Teapots                   |
| S1      | 14:15<br> <br>14:30 | OCS-0005 | Jen-Feng Chen,<br>Yun-Song Chu,<br>Po-Hsien Lin   | Innovative Frontiers in Visual Arts: AI's Role in Interdisciplinary Collaboration   |

**[S2] Topics: Emotion Research in Southeast Asia (SEA): Bridging Cultures, Advancing Design****Host: Prof. Anitawati Mohd Lokman, Universiti Teknologi MARA****Location: Zhong Shang Building 7208****Date: Thursday, November 21st, 2024**

| Session | Time                | Number                | Author  | Paper Title  |
|---------|---------------------|-----------------------|---|--|
| S2      | 13:30<br> <br>13:42 | OCS-0006              | Wen-Tsai Sung,<br>Indra Griha Tofik Isa   | The Integration of Kansei Engineering and Artificial Intelligence Based on Methodology and Application Perspective: A Review |
| S2      | 13:42<br> <br>13:54 | VCS-0006              | Nur Batrisyia Damia Mustafa,<br>Saidatul Rahah Hamidi,<br>Surya Sumarni Hussein,<br>Shuhaida Mohamed Shuhidan | Assistive Tool for Emotion and Importance Quadrant LEIQ™   |
| S2      | 13:54<br> <br>14:06 | VCS-0007<br>(On-line) | Surya Sumarni Hussein,<br>Nur Hanis Solehah Mohd Rosli,<br>Azran Ahmad  | Key Determinants of Value-Based Management for ICT Project Delivery: Insights from Kansei Engineering and Emotion Research   |
| S2      | 14:06<br> <br>14:18 | VCS-0014<br>(On-line) | I Made Bambang Ariawan,<br>Shamsiah Abd Kadir,<br>Afiza Ismail,<br>Anitawati Mohd Lokman                      | Exploring Research Direction for Human Metaverse Interaction   |



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|----|---------------------|-----------------------|--|--|
| S2 | 14:18<br> <br>14:30 | VCS-0016<br>(On-line) | Liyana Safra Zaabar,<br>Khairul Khalil Ishak,<br>Noor Afiza Mat Razali | Enhancement of Kansei Model for<br>Political Security<br>Threat Prediction using Bi-LSTM |
|----|---------------------|-----------------------|--|--|

**[A5] Topics: Kansei Design**

**Host: Prof. Min-Yuan Ma 馬敏元教授, National Cheng Kung University**

**Location: Zhong Shang Building 7505**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number                | Author  | Paper Title  |
|---------|---------------------|-----------------------|---|--|
| A5      | 13:30<br> <br>13:45 | OBA-0009              | Wingly Shih   | A Gui Implementation of AIGC for Kids  |
| A5      | 13:45<br> <br>14:00 | OAA-0012              | Shunya Ogata,<br>Jue Zhang  | Using Breathing Motions of VR Avatars to Induce User Sensations                                |
| A5      | 14:00<br> <br>14:15 | OAA-0013              | Sena Amano,<br>Naoki Ikehata,<br>Hayato Hamada,<br>Daichi Chikazu,<br>Hideaki Kimata,<br>Junji Yamato,<br>Naoto Yoshida,<br>Jue Zhang | Investigation of Marker Placement Methods for an AR Application in the Surgical Field          |
| A5      | 14:15<br> <br>14:30 | OAA-0014<br>(On-line) | Simon Schütte,<br>Mattias Forsblad  | Designing for Change: Influencing Consumer Behavior Through User-Centered and Emotional Design |

**[A6] Topics: Kansei Engineering**

**Host: Prof. Suomiya Bao, University of Tsukuba**

**Location: Zhong Shang Building 7506**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number   | Author  | Paper Title  |
|---------|---------------------|----------|---|--|
| A6      | 13:30<br> <br>13:45 | OAA-0015 | Awoniyi Stephen                                 | Absence Portal   |
| A6      | 13:45<br> <br>14:00 | OAA-0016 | Awoniyi Stephen                                 | Perceptual Claim About Performance on Reading a Graph, Based on a Simple Assessment: Pilot Study                                     |
| A6      | 14:00<br> <br>14:15 | OAA-0017 | Awoniyi Stephen                                 | Small Group and Its Size: An Exploratory Study   |
| A6      | 14:15<br> <br>14:30 | OAA-0018 | Fumio Kimura,<br>Reo Kurita,<br>Yasuki Yamauchi | Effects of Balcony Deck Height on Subjective Evaluation of Living Space: Comparative Study Between Miniature Model and Virtual Model |

**[A7] Topics: Kansei Design**

**Host: Prof. Chung-Hua Chu, 朱中華教授, National Taichung University of Science and Technology**

**Location: Zhong Shang Building 7507**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number   | Author   | Paper Title   |
|---------|---------------------|----------|--|---|
| A7      | 13:45<br> <br>14:00 | OAA-0019 | Naoto Yoshida,<br>Hiroto Murakami,<br>Tomoko<br>Yonezawa,<br>Yu Enokibori,<br>Kenji Mase,  | Database Construction of Facial Expressions of Elderly Japanese and Evaluation Based on FACS                                |
| A7      | 14:00<br> <br>14:15 | OAA-0025 | Asako Noma,<br>Satoko<br>Kanabayashi,<br>Satoshi Ishibashi,<br>Hideki<br>Wakabayashi,<br>Takashi Sakamoto,<br>Atsushi Maki,<br>Toshikazu Kato, | Differences Between Experts and Novices on Cognitive Behaviors for Circuit Design Review                                    |
| A7      | 14:15<br> <br>14:30 | OAA-0026 | Misaki Kishi,<br>Hiroto Inoue,<br>Mizuki Nakajima  | Positioning Mapping of Colored Masks in Japan: Correlation Analysis of Hue, Saturation, Brightness, and Impression of Masks |

**[S3] Topics: Innovative Design for Cultural Sustainability**

**Host: Prof. Po Hsien Lin 林伯賢教授, National Taiwan University of Arts**

**Location: Zhong Shang Building 7203**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number   | Author                          | Paper Title   |
|---------|---------------------|----------|---------------------------------|---|
| S3      | 14:50<br> <br>15:05 | OCS-0011 | Tze-Fei Huang                   | Impact of the Audience's Aesthetic Perceptions on the Traditional DanceDrama: Eternal Love Across the Magpie Bridge |
| S3      | 15:05<br> <br>15:20 | OCS-0014 | Jhih-Ling Jiang,<br>Rungtai Lin | Research on Perceptual Differences in Corporate Identity Systems  |
| S3      | 15:20<br> <br>15:35 | OCS-0019 | Bai-Hui Du                      | Exploration of Mural Creation in Eastern Zhejiang Art Mural Villages  |

**[S4] Topics: Emotion Research in Southeast Asia (SEA): Bridging Cultures, Advancing Design**

**Host: Prof. Anitawati Mohd Lokman, Universiti Teknologi MARA**

**Location: Zhong Shang Building 7208**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number                | Author   | Paper Title  |
|---------|---------------------|-----------------------|--|--|
| S4      | 14:50<br> <br>15:00 | VCS-0001<br>(On-line) | Nik Azlina Nik Ahmad,<br>Anitawati Mohd<br>Lokman,<br>Ahmad Iqbal Hakim<br>Suhaimi,<br>Munaisyah Abdullah                              | Emotional Preferences in<br>Metaverse Library Interface: A<br>Kansei Analysis  |
| S4      | 15:00<br> <br>15:10 | VCS-0021<br>(On-line) | Novi Purnama Sari,<br>Wiwi Prastiwinarti,<br>Anitawati Mohd<br>Lokman,<br>Iqbal Yamin,<br>Ade Isna,<br>Lytta Yennia,<br>Raditya Naufal | Developing the Concept of<br>Emotion for Rendang Packaging<br>Design Using Kansei Engineering  |
| S4      | 15:10<br> <br>15:20 | VCS-0003<br>(On-line) | Fatin Nadhirah Zabani,<br>Jo Anne Saw,<br>Nur'aina Daud,<br>Azhar Abd Aziz,<br>Anitawati Mohd<br>Lokman                                | Exploring Emotion Classification<br>for Children with Autism in<br>Response to Robot Movement: A<br>Preliminary Case Study in Malaysia             |
| S4      | 15:20<br> <br>15:30 | VCS-0022<br>(On-line) | Novi Purnama Sari,<br>Wiwi Prastiwinarti,<br>Rachmadita Dwi<br>Pramesti,<br>Lytta Yennia Putri,<br>Rafi Ramdan Permana                 | Implementation of K-Means<br>Cluster with Genetic Algorithm to<br>Determining Design Concept for<br>Toast Bread Packaging by Kansei<br>Engineering |
| S4      | 15:30<br> <br>15:40 | VCS-0004<br>(On-line) | Zaiha Ahmad,<br>Zuraeda Ibrahim,<br>Nordiana Ibrahim,<br>Nur Nafishah Azmi,<br>Moh Sazili Shahibi,<br>Anitawati Mohd<br>Lokman         | Design Guide for Emotional<br>Evocative Student's Leadership<br>Program  |
| S4      | 15:40<br> <br>15:50 | VCS-0023<br>(On-line) | Wiwi Prastiwinarti,<br>Novi Purnama Saria,<br>Rafi Ramdan Permana,<br>Lytta Yennia   | Extraction of Toast Packaging<br>Design Elements Using Long Short-<br>Term Memory-Neural Network<br>with Kansei Engineering Approach               |

**[S5] Topics: Exploring the Intersection of Kansei Engineering and Affective Computing in Digital Media Design Research**

**Host: Prof. Teng-Wen Chang, 張登文教授, National Yunlin University of Science and Technology**

**Location: Zhong Shang Building 7505**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number   | Author                               | Paper Title   |
|---------|---------------------|----------|--------------------------------------|---|
| S5      | 14:50<br> <br>15:05 | OCS-0015 | Huang-Yin Chen,<br>Teng-Wen<br>Chang | Constructing a Curatorial Awareness-Based Sustainable Development Model—A Kansei Engineering Perspective                                  |
| S5      | 15:05<br> <br>15:20 | OCS-0021 | Chia Hui Nico Lo                     | Design For/From Pray: The Building Process of Virtual Pilgrimage Site   |
| S5      | 15:20<br> <br>15:35 | OCS-0027 | Yinghsiu Huang,<br>Syue-Ting Lung    | A Research of Kansei Engineering and Affective Computing for Generating Game Controller   |
| S5      | 15:35<br> <br>15:50 | OCS-0028 | Chen-Syuan Lin,<br>Teng-Wen<br>Chang | Applying Design Puzzle and Kansei Analysis to Analyze the Emotional Factors in the Bionic Modeling Wooden Toy Design Process by Designers |
| S5      | 15:50<br> <br>16:05 | OCS-0030 | Tse-Wei Hsu                          | Ontology Construction and Sentiment Computation Analysis in Animated Series: A Case Study of Mobile Suit Gundam                           |

**[S6] Topics: Image and Media in Kansei Design**

**Host: Prof. Chun-Chih Chen, 陳俊智教授, National Kaohsiung Normal University**

**Location: Zhong Shang Building 7506**

**Date: Thursday, November 21st, 2024**

| Session | Time                | Number                | Author  | Paper Title  |
|---------|---------------------|-----------------------|---|--|
| S6      | 14:50<br> <br>15:05 | OCS-0020              | Tsu-Min Hsiang,<br>Wei-Ming Liao                | A Study About Visual Movement of Applying Proximity of Gestalt Psychology on Straight Line   |
| S6      | 15:05<br> <br>15:20 | OCS-0032              | Hao-Yang Chen,<br>Pey-Yune Hu,<br>Lien-Shang Wu | Application of the Immersive Virtual Training: The First Immersive Simulation Cave System to the First Responder Training in Taiwan          |
| S6      | 15:20<br> <br>15:35 | OCS-0040              | Tzu-Wei Tsai,<br>Su-Ting Tasi,<br>Shao-Han Liao | Applying the Story Context Analysis Method in Teaching Immersive Media Development   |
| S6      | 15:35<br> <br>15:50 | VCS-0002<br>(On-line) | Chun-Wei Chen                                   | A Comparative Study Assessing the Effectiveness of Machine Learning Technology Versus the Questionnaire Method in Product Aesthetics Surveys |
| S6      | 15:50<br> <br>16:05 | VCS-0017<br>(On-line) | Chia-Ling Chang                                 | Cognitive Research on AI-Assisted Generation of Animations with Diverse Artistic Styles  |

**[A8] Topics: Kansei Engineering****Host: Prof. Marina Stankovic, University of Applied Sciences HTWK****Location: Zhong Shang Building 7507****Date: Thursday, November 21st, 2024**

| Session | Time                | Number                | Author   | Paper Title  |
|---------|---------------------|-----------------------|--|--|
| A8      | 14:50<br> <br>15:05 | OAA-0028              | Yu Enokibori,<br>Jun Yamagami,<br>Naoto Yoshida,<br>Tomoko Yonezawa,<br>Kenji Mase | Unified-Usage-Behavior Based Kansei Sharing Among Who Have Similar Kansei Background               |
| A8      | 15:05<br> <br>15:20 | OAA-0029              | Masakazu Kobayashi,<br>Kenya Muraishi  | Optimal Design of Kansei Quality Based on Electroencephalography (EEG)                             |
| A8      | 15:20<br> <br>15:35 | OAA-0030<br>(On-line) | Yu-Chen Chen,<br>Hsi-Jen Chen,<br>Chia-Han Yang                                    | Relationship Between Conflict Handling Styles and Team Climate in Interdisciplinary Design Course  |
| A8      | 15:35<br> <br>15:50 | OAA-0031              | Takanori Sano,<br>Hideaki Kawabata   | Comparison of Facial Attractiveness Models Using Geometric Morphometrics Between Japan and America |

**[A9] Topics: Kansei Engineering****Host: Prof. Kiersten Muenchinger, University of Oregon****Location: Zhong Shang Building 7508****Date: Thursday, November 21st, 2024**

| Session | Time                | Number   | Author   | Paper Title   |
|---------|---------------------|----------|--|---|
| A9      | 14:50<br> <br>15:05 | OAA-0032 | Souma Ichinose,<br>Yuichiro Kinoshita  | Investigation of Factors Affecting the Impression of Soccer Thumbnail Images  |
| A9      | 15:05<br> <br>15:20 | OAA-0033 | Masanobu Toyohira,<br>Takayoshi Kitamura   | Can BIAISO (Non-Sociability Assessment Factors) Be Useful as A New UX Design Perspective to Reduce Dissatisfaction with Unattended Service Systems? |
| A9      | 15:20<br> <br>15:35 | OAA-0034 | Yoshiki Tominaga,<br>Emmanuel Ayedoun,<br>Hiroshi Takenouchi,<br>Masataka Tokumaru | Pop Advertisement Generation System Based on Regulatory Focus Theory and IEC  |
|         |                     |          |  |   |

**[A10] Topics: Kansei Engineering****Host: Prof. Li-Shu Lu 盧麗淑教授, National Yunlin University of Science and Technology****Location: Zhong Shang Building 7203****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author                        | Paper Title  |
|---------|---------------------|----------|-------------------------------|--|
| A10     | 09:20<br> <br>09:35 | OAA-0046 | Shiho Okajima,<br>Suomiya Bao | Research on the Development of Audio Games and Visual Stimuli in Audio Games   |
| A10     | 09:35<br> <br>09:50 | OAA-0044 | Can Wang,<br>Kuniko Otomo,    | Formative Features and Symbolism of Dragon Patterns in Miao Embroidery in Guizhou Province: Design Elements in Mythological Backgrounds of Decorative Embroidery Patterns                |
| A10     | 09:50<br> <br>10:05 | OAA-0045 | Koichi Takahashi              | Proposal of Organizational Design of "Injecting Intent" For Bottom-Up Based Purpose-Driven Management Cultivating a Sense of Unity and Enhancing Visionary Kansei from the Business Unit |
| A10     | 10:05<br> <br>10:20 | OAA-0047 | Jue Zhang,<br>Asuto Kinoshita | Effects of Visual and Auditory Stimuli on Silences During Multi-Person Communication to Promote Speech   |

**[A11] Topics: Kansei Engineering****Host: Prof. Kevin C.Tseng 曾俊儒教授, National Taipei University of Technology****Location: Zhong Shang Building 7208****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author                           | Paper Title   |
|---------|---------------------|----------|----------------------------------|---|
| A11     | 09:20<br> <br>09:35 | OAA-0048 | Koki Ida,<br>Kazuya Oizumi       | Prosthetic Leg Cover Design Based on Kansei Evaluation Through Shape Abstraction: Deriving Shape Guidelines According to Clothing Styles      |
| A11     | 09:35<br> <br>09:50 | OAA-0049 | Kyosuke Maeda,<br>Saerom Lee     | Development of a Music Recommendation Method Considering Novelty Using User's Kansei  |
| A11     | 09:50<br> <br>10:05 | OAA-0050 | Tamami Sato,<br>Suomiya Bao      | A Study on the Identification of Acceptable Ranges for Wearable Sound with Wearer's Sense of Wearability and Surrounding People's Impressions |
| A11     | 10:05<br> <br>10:20 | OAA-0051 | Yaliang Chuang,<br>Po-yang Huang | Style Agent: Sensitizing and Empowering Designer's Creativity in Creating Aesthetic Designs   |

**[A12] Topics: Kansei Engineering****Host: Prof. Wei-Lun Lee 李維倫教授, National Taichung University of Science and Technology****Location: Zhong Shang Building 7505****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author                             | Paper Title  |
|---------|---------------------|----------|------------------------------------|--|
| A12     | 09:20<br> <br>09:35 | OAA-0058 | Su-Ting Tasi,<br>Tzu-Wei Tsai      | Exploring the Charm Factors of A-RPGs Through Miryoku Engineering                                    |
| A12     | 09:35<br> <br>09:50 | OAA-0059 | Shao-Han Liao,<br>Tzu-Wei Tsai     | Discussing the Charm Factors of Abstract Dynamic Graphics from the Perspective of Kansei Engineering |
| A12     | 09:50<br> <br>10:05 | OAA-0060 | Wei-Hsien Chien,<br>Teng-Wen Chang | Interactive Learning System for Self-Directed Learning of Interdisciplinary Team Designers           |
| A12     | 10:05<br> <br>10:20 | OAA-0061 | Shuichi Fukuda                     | Social Emotion: Its Increasing Importance  |

**[B1] Topics: Kansei for Sustainable Design****Host: Prof. Chung-Yi Chang 張從怡教授, National Taichung University of Science and Technology****Location: Zhong Shang Building 7506****Date: Friday, November 22nd, 2024**

| Session | Time                | Number                | Author  | Paper Title   |
|---------|---------------------|-----------------------|---|---|
| B1      | 09:20<br> <br>09:35 | OBB-0001              | Akira Kondo   | Consideration of Information Dissemination to Bring Empathy to Users with Different Backgrounds: How to Disseminate Information to Make People Like Their Hometowns |
| B1      | 09:35<br> <br>09:50 | VAB-0003<br>(On-line) | Ryota Mima,<br>Taro Obayashi,<br>Ryoho Shinya,<br>Tomoko Yonezawa | Generating Biophilic Design and Visual Complexity of Paintings for Working Environment  |
| B1      | 09:50<br> <br>10:05 | VAB-0004<br>(On-line) | Hitoshi Asada,<br>Nobuya Suzuki                                   | The Possibility of Affective Support on Sustainable Cultural Inheritance of Luthier Through Violin Visualization Technology   |

**[B2] Topics: Kansei for Sustainable Design****Host: Prof. Sheng-Fen Chien 簡聖芬教授, National Cheng Kung University****Location: Zhong Shang Building 7507****Date: Friday, November 22nd, 2024**

| Session | Time                | Number                | Author   | Paper Title  |
|---------|---------------------|-----------------------|--|--|
| B2      | 09:20<br> <br>09:35 | OAB-0001              | Yung-Chia Chiu,<br>Ming-Chyuan Ho,<br>Jui-Che Tu,<br>Guan-Yu Lin,<br>Pei-Shan Wong | Public Emotions and Visual Perception of Buildings in the City: A Case Study of Public Buildings in Taiwan   |
| B2      | 09:35<br> <br>09:50 | OAB-0002              | Shoto Yamamoto,<br>Kosuke Oiwa,<br>Yasushi Nanai,<br>Kent Nagumo,<br>Akio Nozawa   | Feature Extraction Based on Blood Pressure Fluctuation Mechanism in Visible and Near-Infrared Facial Images Using Sparse Coding  |
| B2      | 09:50<br> <br>10:05 | OAB-0008              | Kiersten Muenchinger   | Expressed Material Derivations Influence Perceptions of Product Sustainability   |
| B2      | 10:05<br> <br>10:20 | OAB-0009<br>(On-line) | Martin Bergman,<br>B-G Rosén,<br>Lars Eriksson,<br>Ola Wagersten                   | Texture, Gloss, and Color Variation and Perceived Quality of Surfaces: A Kansei Engineering Approach for a Sustainable Plastic Material Selection in Car Interior Design |

**[C1] Topics: Kansei for Innovation Industry****Host: Prof. Chuan-Po Wang 王譚博教授, National Taichung University of Science and Technology****Location: Zhong Shang Building 7508****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author                               | Paper Title   |
|---------|---------------------|----------|--------------------------------------|---|
| C1      | 09:35<br> <br>09:50 | OAC-0002 | Maya Yamamoto,<br>Takayoshi Kitamura | An Attempt to Create a Counseling Bot Using Generative AI Inspired by the Trajectory Equifinality Model |
| C1      | 09:50<br> <br>10:05 | OAC-0003 | Chuan-Po Wang,<br>Han-Yu Lai         | Exploration of the Crisis of Seals' Survival in the Ocean and Its Application in Digital Education      |
| C1      | 10:05<br> <br>10:20 | OAC-0004 | Pei-Shan Teng,<br>Yao-Jen Fan        | Transforming Community Spaces Through Participatory Design: A Case Study in Higher Education            |



**[S7] Topics: Wellbeing / Experience Quality of Life/ Healthcare**

**Host: Prof. Meng-Chieh Jeffrey Lee 李孟杰教授, National Taichung University of Science and Technology**

**Location: Zhong Shang Building 7203**

**Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author   | Paper Title  |
|---------|---------------------|----------|--|--|
| S7      | 13:30<br> <br>13:50 | OCS-0023 | Chung-Yi Chang,<br>Jenn-Ann Tan,<br>Meng-Chieh Jeffrey Lee,<br>Tain-Junn Cheng | A Study on the Relationship Between Indoor Thermal Comfort and the Physical and Psychological Perception of the Elderly                            |
| S7      | 13:50<br> <br>14:10 | OCS-0034 | Wei-Lun Lee,<br>Yi-Tung Lin,<br>Meng-Chieh Jeffrey Lee,<br>Tain-Junn Cheng     | An Initial Investigation of Heart Rate Variability (HRV) Related to Foot Bathing Water Temperature and Vibration Relaxation for the Elderly People |
| S7      | 14:10<br> <br>14:30 | OCS-0035 | Yi Chun Kuo,<br>Shih Chiao Sun,<br>Meng Chieh Lee,<br>Tain Junn Cheng          | Study of the Correlation Between Indoor Air Quality and Brain Wave of Elder People in an Elderly Nursing Center                                    |

**[S8] Topics: Kansei Issues in Cross-Cultural Design**

**Host: Prof. Kuo-Hsiang Chen 陳國祥教授, National Cheng Kung University**

**Location: Zhong Shang Building 7208**

**Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author  | Paper Title   |
|---------|---------------------|----------|---|---|
| S8      | 13:30<br> <br>13:50 | OCS-0029 | Hsiao-Chen You,<br>Ding-Xiang Luo,<br>Lingyu Ho | A Kansei Engineering Approach to Virtual Personality of Embodied Voice Assistants   |
| S8      | 13:50<br> <br>14:10 | OCS-0031 | Hung-Yu Chang                                   | Cross-Cultural Bamboo Craft Design Collaboration: An Interview Review of Taiwanese Design Assistants and Nicaraguan Craftsmen |
| S8      | 14:10<br> <br>14:30 | OCS-0036 | Chang-Yu Pan                                    | A Study on Visual Scheme for the History of Automotive Style: Apply Arts History Method to Design History                     |

**[S9] Topics: Competencies Required by Different Positions for Innovation****Host: Prof. Yong-Long Chen 陳永隆教授, National Taichung University of Science and Technology****Location: Zhong Shang Building 7505****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author  | Paper Title  |
|---------|---------------------|----------|---|--|
| S9      | 13:30<br> <br>13:45 | OCS-0012 | Yao-Xun Chang,<br>Ki-Yan Ma,<br>Hei-Man Hung                            | An Initial Exploration of Virtual Reality for Emotional Expression: The Case of "Inescapable Grief"  |
| S9      | 13:45<br> <br>14:00 | OCS-0016 | Young-Long Chen,<br>Jing-Fong Ciou,<br>Chih-Han Lin,<br>Shih-Sheng Lien | Combined Bidirectional Long Short-Term Memory and Mel-Frequency Cepstral Coefficients with Convolution Neural Network Using Triplet Loss for Speaker Recognition |
| S9      | 14:00<br> <br>14:15 | OCS-0017 | Young-Long Chen,<br>Chuan-Cheng Chung,<br>Li-Hong Qin                   | An Improved YOLOv5 Model with FRB Method for Product Surface Defect Detection  |
| S9      | 14:15<br> <br>14:30 | OCS-0026 | Chein-Hui Lee,<br>Evelyn Saputri,<br>Min-Chi Chiu                       | Application of Digital Gamification Systems in Intelligent Automated Learning  |

**[S10] Topics: Kansei in Senses and Interaction****Host: Prof. Jiun-Jhy Her 賀俊智教授, National Taitung University****Location: Zhong Shang Building 7506****Date: Friday, November 22nd, 2024**

| Session | Time                | Number                | Author   | Paper Title  |
|---------|---------------------|-----------------------|--|--|
| S10     | 13:30<br> <br>13:45 | OAS-0004              | Cheih-Ying Chen,<br>Ping-Chia Hsiang           | Elderly Acceptance of Virtual Character Exercise Videos  |
| S10     | 13:45<br> <br>14:00 | OCS-0037              | Wen-Tsong Huang                                | Designing Effective Career Websites: A Study on User Experience and Job Seeker Engagement  |
| S10     | 14:00<br> <br>14:15 | OCS-0022              | Jing-Lun Chua,<br>Chien-Kuo Teng               | Exploring the Conceptual Design of Soul Communication Devices from a Speculative Design Perspective  |
| S10     | 14:15<br> <br>14:30 | VCS-0005<br>(On-line) | Shih-Yun Lu,<br>Yi-Cheng Lin,<br>Wei-Her Hsieh | Exploring Emotional Expression Design in Line Stickers- Utilizing Kansei Engineering and Emotional Design for Market and Brand Enhancement |

**[A13] Topics: Kansei Design****Host: Prof. Yang-Cheng Lin 林彥呈教授, National Cheng Kung University****Location: Zhong Shang Building 7507****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author  | Paper Title   |
|---------|---------------------|----------|---|---|
| A13     | 13:30<br> <br>13:45 | OAA-0040 | Ling-Wen Huang,<br>Tseng-Ping Chiu                                | How Does Personality Influence Your Consumption Habits? Applying Wearable Eye-Tracking to Explore the Consumer's Visual Perception Between Product Personality and Consumer Personality Traits  |
| A13     | 13:45<br> <br>14:00 | OAA-0041 | Guo-Ruei Huang,<br>Tseng-Ping Chiu                                | Who Brings Emotional Value to the Bank? A Study on the Visual Perception of Mascot on Bank Payment Cards Using Wearable Eye-Tracking Devices  |
| A13     | 14:00<br> <br>14:15 | OAA-0042 | Issei Yokota,<br>Kyosuke Maeda,<br>Kazuhiko Kogami,<br>Saerom Lee | Development of the Proposed Method for Extraction of Combination of Topic Transition  |
| A13     | 14:15<br> <br>14:30 | OAA-0043 | Chih-Yen Lin,<br>Tseng-Ping Chiu                                  | The Impact of Flat and Skeuomorphic Designs on Physical Interface Preferences Across Different Age Groups: Applying Wearable Eye-Tracking to Explore Visual Perception Between Digital Natives and Digital Immigrants' Preferences in Home Appliances |

**[A14] Topics: Kansei Engineering****Host: Prof. Chun-Heng Ho 何俊亨教授, National Cheng Kung University****Location: Zhong Shang Building 7508****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author  | Paper Title  |
|---------|---------------------|----------|---|--|
| A14     | 13:30<br> <br>13:45 | OAA-0052 | Bo-Kai Chen,<br>Yi-Zhen Wang,<br>Zi-Yang Lin  | Exploring the Charm Factors of Smartwatch Among Taiwanese Consumers  |
| A14     | 13:45<br> <br>14:00 | OAA-0053 | Enrick Pereira Da<br>Silva Magalhães,<br>Claudio Esperança,<br>Rodrigo Queiroz<br>Kühni Fernandes,<br>Suomiya Bao                   | The Emotional Impressions of Digital Tools on Novice Music Composition: A Comparative Study Exploring Users' Feelings Towards Generative AI and Active Learning in Music Accessibility |
| A14     | 14:00<br> <br>14:15 | OAA-0054 | Bo Liu,<br>Min-Yuan Ma,<br>Shing-Sheng Guan,<br>Yang-Cheng Lin,<br>Syu-Wei Chen,<br>Wei-Ni Hsu,<br>Che-Ming Chang,<br>Yu-Liang Feng | Exploring the Charm Factors of Film Cameras Through Evaluation Grid Method and Quantification Theory Type I: Innovation in Design and Kansei Engineering                               |
| A14     | 14:15               | OAA-0055 | Miyu Kimura,  | Assessing Chronic Stress Using Self-Similar  |

|  |           |  |   |                                   |
|--|-----------|--|---|-----------------------------------|
|  | <br>14:30 |  | Masahito Takano,<br>Kent Nagumo,<br>Akio Nozawa | Features in Facial Thermal Images |
|--|-----------|--|---|-----------------------------------|

**[S11] Topics: Wellbeing / Experience Quality of Life/ Healthcare**

**Host: Prof. Chien-Kuo Teng 鄧建國教授, National Taiwan Normal University**

**Location: Zhong Shang Building 7203**

**Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author   | Paper Title  |
|---------|---------------------|----------|--|--|
| S11     | 14:50<br> <br>15:05 | OAS-0005 | Taiyo Sunny Kojima,<br>Shugo Ono,<br>Atsunari Suzuki,<br>Etsuko Ogasawara,<br>Naoki Takahashi,<br>Toru Nakata,<br>Takashi Sakamoto,<br>Fumitake Sakaori,<br>Toshikazu Kato | Motivation Assisting System for Physical Exercise Based on Classifying Users' Attitudes                                  |
| S11     | 15:05<br> <br>15:20 | OCS-0008 | Yu-Han Wang,<br>Satoshi Muraki,<br>Jeewon Choi,<br>Yuk-Wa Fan  | How Advanced Technology Design Meet Senior Adults' Emotional Needs? A Case Study of Japanese Senior Adults' Experience   |
| S11     | 15:20<br> <br>15:35 | OCS-0013 | Rui Zhu,<br>Tien-Li Chen,<br>Chun-Yueh Hou,<br>Yu Chuang   | Optimizing Learning Experience: Innovative Design of Distance Learning Auxiliary Products for Elementary School Students |

**[S12] Topics: Kansei Issues in Cross-Cultural Design**

**Host: Prof. Cheih-Ying Chen 陳潔瑩教授, National Taipei University of Business**

**Location: Zhong Shang Building 7208**

**Date: Friday, November 22nd, 2024**

| Session | Time                | Number                | Author   | Paper Title   |
|---------|---------------------|-----------------------|--|---|
| S12     | 14:50<br> <br>15:05 | VAS-0001<br>(On-line) | Yu Chao,<br>Chien-Kuo Teng                           | Soft Movement Space Research and Product Creation Under the Aging Experience of Emotional Design    |
| S12     | 15:05<br> <br>15:20 | VCS-0008<br>(On-line) | Cunfeng Pei,<br>Xin Cao                              | Exploring Product Innovation Design Based on the Systematic Design Method and TRIZ Theory           |
| S12     | 15:20<br> <br>15:35 | VCS-0009<br>(On-line) | Chih-Kuan Lin,<br>Chi-Cheng Cheng,<br>Kai-Shuan Shen | Exploring the Appeal of Pokémon Ga-Olé from the Perspective of Virtual-Real Interaction             |
| S12     | 15:35<br> <br>15:50 | VCS-0020<br>(On-line) | Cailin Huang,<br>Ke Song,<br>Hok Kun Wan             | Exploring Cultural Heritage and Innovation: Portuguese Azulejos Tile Art in Macao's Creative Design |

**[S13] Topics: Kansei in Senses and Interaction****Host: Prof. Wen-Tsong Huang 黃文宗教授, Chung Yuan University****Location: Zhong Shang Building 7505****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author                                   | Paper Title  |
|---------|---------------------|----------|--|--|
| S13     | 14:50<br> <br>15:05 | OCS-0007 | Ting-Cheng Chang,<br>Hsiao-Chen You      | The Impact of Voice Design on User Perception: A Case Study of Campus Counseling Voice Services                      |
| S13     | 15:05<br> <br>15:20 | OCS-0018 | Yong-Yi Cheng,<br>Jo-Yu Kuo,<br>Han Chen | Kansei Evaluation of Car Interiors in 360-Degree Photo Viewing: Differences Between Flat Display and Virtual Reality |
| S13     | 15:20<br> <br>15:35 | OCS-0033 | I-Chia Tsai,<br>Yu-Tien Chang            | The Needs and Design of Home Mobility Assistance for the Elderly from the Perspective of Lifestyle                   |

**[S14] Topics: Kansei Approach to Sustainability Society****Host: Prof. Wang-Chin Tsai 蔡旺晉教授, National Yunlin University of Science and Technology****Location: Zhong Shang Building 7506****Date: Friday, November 22nd, 2024**

| Session | Time                | Number                | Author  | Paper Title   |
|---------|---------------------|-----------------------|---|---|
| S14     | 14:50<br> <br>15:05 | OCS-0009              | Hsin-Wei Huang,<br>Yu-Hsu Lee   | The Investigation of How Brand Design Language Impacts Young Motorcycle Enthusiasts: Yamaha and Honda as Example        |
| S14     | 15:05<br> <br>15:20 | OCS-0010              | Yen-Ting Chen,<br>Yu-Hsu Lee  | Using the ALESSI Evaluation Model to Explore the Shape Structure of Parametric Design Products                          |
| S14     | 15:20<br> <br>15:35 | OCS-0038              | Yi Ling Lo  | Preliminary Research on Artificial Intelligence-Assisted Furniture Design-Take the Torii Entrance Cabinet as an Example |
| S14     | 15:35<br> <br>15:50 | VCS-0015<br>(On-line) | Khuat Duc Anh,<br>Vu Kim Anh,<br>Nguyen Duy Minh,<br>Luong Nguyen Viet Khoa,<br>Ngo Truong Minh,<br>Phan Duy Hung | SmartTM: An IoT-Based Smart Trash Management System   |
| S14     | 15:50<br> <br>16:05 | VCS-0019<br>(On-line) | Shih-Cheng Fann   | A Preliminary Study on Generative AI Drawing Systems in Design Courses: A Case Study of Introduction to Design          |

**[A15] Topics: Kansei Design****Host: Prof. Shih-Yun Lu 盧詩韻教授, National Taichung University of Education****Location: Zhong Shang Building 7507****Date: Friday, November 22nd, 2024**

| Session | Time                | Number   | Author   | Paper Title   |
|---------|---------------------|----------|--|---|
| A15     | 14:50<br> <br>15:05 | OAA-0035 | Tetsuaki Togo,<br>Emmanuel Ayedoun,<br>Hiroshi Takenouchi,<br>Masataka Tokumaru  | Product Recommendation System That Promotes Selection Using Dominance Structuring Process   |
| A15     | 15:05<br> <br>15:20 | OAA-0036 | Kara Dinissa<br>Alisjahbana,<br>Hiroyuki Sawamoto,<br>Yuhei Suzuki,<br>Toshihiko Imamura,<br>Yui Kiyoshima,<br>Ami Utsunomiya,<br>Daigo Suzuki,<br>Suomiya Bao | Exploring Cute Character Design Impact on Avatar Impression and Usage Motivation  |
| A15     | 15:20<br> <br>15:35 | OAA-0037 | Riki Matsunaga,<br>Hiroto Inoue  | Evaluating the Impression of Optical Flow Generated in Third-Person Video Games: Consistency Between Subjective Evaluations of Random-Dotted Video and Original Video |
| A15     | 15:35<br> <br>15:50 | OAA-0038 | Min-Chi Chiu,<br>Evelyn Saputri,<br>Tzu-Wei Tsai   | Assessing Personality Traits and Career Inclinations in MBTI Game Development Design  |

**[A16] Topics: Kansei Design****Host: Prof. Meng-Cong Zheng 鄭孟淙教授, National Taipei University of Technology****Location: Zhong Shang Building 7507****Date: Friday, November 22nd, 2024**

| Session | Time                | Number                | Author                                    | Paper Title   |
|---------|---------------------|-----------------------|---|---|
| A16     | 14:50<br> <br>15:05 | OAA-0062<br>(On-line) | Lluis Marco-Almagro,<br>Anna Bel Ferreres | Exploring the Relationship Between Gaze Patterns and Image Preference Using Eye-Tracking Technology   |
| A16     | 15:05<br> <br>15:20 | OAA-0063              | Han-Yin Hsu,<br>Li-Shu Lu                 | Tacit Knowledge and Creative Elements in Display Design   |
| A16     | 15:20<br> <br>15:35 | OAA-0066              | Chor-Kheng Lim                            | A Study on Reproducing and Creating Emotional Expressions in Art Using Generative Artificial Intelligence                                     |
| A16     | 15:35<br> <br>15:50 | VAA-0006<br>(On-line) | Kuo Pin Chang                             | Exploring Creative Product Design for Older Adults: A Problem-Based Learning and Design Thinking Approach in University Social Responsibility |

**[P1] Poster Presentation****Host: Prof. Min-Chi Chiu 邱敏棋教授, National Taichung University of Science and Technology****Location: 2F, Zhong Shang Building****Date: Thursday, November 21st, 2024**

| <b>Number</b> | <b>Author</b>   | <b>Paper Title</b>  |
|---------------|---|---|
| PAA-0002      | Shuo-Ting Wei,<br>An-Ting Lee,<br>Huai Hsu,<br>Ming-Jou Hsu,<br>Wen-Yu Chen,<br>En-Ying Lin,<br>Sheng-Chuan Chang | Tactile Toy Design and Evaluation for Blind Children  |
| PBA-0002      | Kiyomi Yoshioka   | Comparison of Psychological Evaluations When Opponents in Facial Rock-Paper-Scissors are Face Illustration Images or Real Persons: Development of a Facial Rock-Paper-Scissors Program that Incorporates Smiling Facial Expression Settings |
| PBA-0003      | Mikihiro Ishii,<br>Kazunari Ito   | The Proposal of Pictogram with Facial Expression as Background  |
| PAA-0003      | Xuan-Xuan Tao,<br>Chun-Heng Ho,<br>Min-Yuan Ma  | Empathy Maps in Persona Construction  |
| PBA-0004      | Aika Yukimoto,<br>Jumpei Hayashi,<br>Takeo Kato,<br>Hideyoshi Yanagisawa  | Crossmodal Correspondences Between Taste and Vision Regarding Complexity of Shape   |
| PAA-0007      | Hidetsugu Suto,<br>Naoko Yamaji   | Design of a Japanese Language Education Community: World Bibliobattle Championship  |
| PBA-0007      | Ami Oba,<br>Kasumi Sato,<br>E.A. Chayani Dilrukshi,<br>Shusaku Nomura   | Development of an Analytical Protocol for Six Hormones in Fingernails: A Mid-to-Long-Term Psychophysiological Assessment  |
| PBA-0008      | Akira Asano,<br>Yu Shimada,<br>Chie Muraki Asano  | Relationship Between the Advancing/Retreating Properties of Colors and Object Shape Distortion  |
| PAA-0009      | Liwen Zhang,<br>Takashi Sakamoto,<br>Kato Toshikazu   | Enhancing Relaxation Through Portable Footbaths with Virtual Visuals and a Sulfur Scent: A Comparative Analysis of Chinese and Japanese Participants  |
| PBA-0009      | Koki Otaka,<br>Atsushi Osa  | Predicting Method for Appearance of Moving Objects in Instantaneous Presentation  |
| PBA-0010      | Isamu Motoyoshi,<br>Narumi Ogawa,<br>Tomomi Itoi,<br>Hironori Maruyama  | Texture Statistics as Determinants of Emotional Valence of Natural Images and Sounds: Analysis in the Two-Stage Spectral Space  |

**[P2] Poster Presentation****Host: Prof. Kuang-Chih Lo, 羅光志教授, National Taichung University of Science and Technology****Location: 2F, Zhong Shang Building****Time: Friday, November 22nd, 2024**

| <b>Number</b> | <b>Author</b>  | <b>Paper Title</b>  |
|---------------|--|---|
| PBA-0005      | Kimihiko Yamanaka  | Emotion Intensity in Acoustic Features and Classification Accuracy Using Support Vector Machine   |
| PBA-0011      | Shio Ko,<br>Suzuka Jikihara,<br>Hiroto Inoue   | Subjective Evaluation of Semi-Transparency Methods as Measures Against Occlusion in Video Games: Comparison of Alpha Blending and Dithering under Viewing Conditions with Different Resolutions |
| PAA-0011      | Yan Wang,<br>Toshimasa Yamanaka,<br>Toru Sato  | Interrelationship Between Sensory Perception and Emotion with Visual Information, Focused on Feeling of Pain  |
| PAA-0012      | Masashi Komori,<br>Hiroto Yano,<br>Teppei Teraji,<br>Takuya Sugimoto,<br>Shigekazu Ishihara                        | Fine-Tuning Image Generative AI for Embedding Impression Space: A Case Study on Milk Carton Design  |
| PBA-0013      | Harumi Edo,<br>Masaru Nakano   | A Case Study of the Development of a Card-Based Role-Playing Game for Learning About Communication  |
| PBA-0014      | Ryoichi Tamura,<br>Akane Kondo,<br>Yun Jing,<br>Akira Kondo  | The Desirability of Wearable Devices for Energetic Elderly Single-Person Household Members: Toward the Promotion of Usage   |
| PBB-0002      | Hui-Ru Liu,<br>Pin-Xuan Li,<br>Yin-Xuan Xu,<br>Chyun-Chau Lin,<br>Chien-Wei Hsu                                    | Innovative Design for Preschool Teacher's Desk and Chair  |
| PBB-0004      | Shoi Taki,<br>Ippeita Dan,<br>Yuko Minami,<br>Toru Handa,<br>Yasushi Kyutoku                                       | Comparing Perceptions of Plant-Based Meat Alternatives (PBMA) Between PBMA and Non-PBMA Eaters Using a Co-Occurrence Network on Generated Textural Data   |
| PBB-0005      | Shinichiro Ito   | Exploring Sustainable Urban-Nature Connections Through Citizen-Participatory Design Workshops: A Study on Global Goals Jam in Kyoto/Keihoku   |
| PBB-0006      | Cheng-Han Tsai,<br>An-Yang Su,<br>Tsu-Wei Liao,<br>Shi-You Qiu,<br>Hsing-Yu Hou,<br>Chih-Teng Chen,<br>Pei-Jung Wu | The Study of Emotional Responses and Brainwave Changes Induced by Different Essential Oils for Improving the Reading Quality of the Indoor Environment: Quality of Life                         |
| PBC-0001      | Chia-Hung Liu,<br>Min-Chi Chiu,<br>Chung-Hua Chu   | The Application of Two-Tier Testing and WSQ Instructional Strategy in Visual Communication Design with the Assistance of Educational Robots   |



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| PBC-0002 | Hiroshi Takenouchi,<br>Brahim Benaissa,<br>Masataka Tokumaru | New Interactive Evolutionary Algorithm   |
| PBC-0003 | Zhong-Wei Lin,<br>Min-Yuan Ma                                | Co-Create with AI: Exploring the Impact of Generative AI in Industrial Design Ideation Process |