



The 8th IEEEJ International Conference on Image Electronics and Visual Computing

IEVC2024

National Cheng Kung University, Tainan City, Taiwan

March 11-14, 2024

Timetable

| Time | F. C. Room | ATI Room | Chi-Duan Building | Hall |
|----------------------|---|---|---|-------------|
| Mar. 11 (Mon) | | | | |
| 13:00 | Opening | | | |
| 13:20 | Keynote #1 | | | |
| 14:20 | Break | | | |
| 14:35 | 1A: Rendering | 1B: Modeling & Animation | | |
| Mar. 12 (Tue) | | | | |
| 9:00 | 2A: Computer Vision & 3D Image Processing (1) | 2B: Virtual, Augmented, and Mixed Reality (1) | 2C: Security and Privacy | |
| 10:20 | Break | | | |
| 10:35 | Poster FF | | | |
| 11:35 | Lunch | | | |
| 13:20 | | | | 4: Poster 1 |
| 14:35 | Break | | | |
| 14:50 | 5A: Image Recognition & Detection (2) | 5B: Virtual, Augmented, and Mixed Reality (2) | 5C: Image Recognition & Detection (1) | |
| 16:10 | Break | | | |
| 16:25 | 6A: Computer Vision & 3D Image Processing (2) | 6B: Artificial Intelligence and Deep Learning | 6C: Computer Vision & 3D Image Processing (3) | |
| Mar. 13 (Wed) | | | | |
| 9:00 | Keynote #2 | | | |
| 10:00 | Break | | | |
| 10:15 | | | | 7: Poster 2 |
| 11:30 | Lunch | | | |
| 13:15 | Excursion | | | |
| 18:30 | Banquet | | | |
| Mar. 14 (Thu) | | | | |
| 9:00 | 8A: Virtual, Augmented, and Mixed Reality (3) | 8B: Medical Image processing | | |
| 10:20 | Break | | | |
| 10:35 | Keynote #3 | | | |
| 11:35 | Lunch | | | |
| 13:20 | Special Session: Industry Forum | 9: Multimedia | | |
| 14:00 | | Break | | |
| 14:15 | | 10: Image Recognition & Detection (3) | | |
| 15:15 | | Break | | |
| 15:30 | | | | |
| 17:00 | Closing | | | |

Monday, March 11

13:00-13:20 Opening F. C. Room

13:20-14:20 Keynote #1 F. C. Room

Chair: Issei Fujishiro (Keio University)

Interactive Tangible Computing

Bing-Yu Chen (National Taiwan University)

14:35-16:15 Session 1A: Rendering F. C. Room

Chair: Katsumi Tadamura (Yamaguchi University)

- 1A-1 **Real-Time Rendering of Energy Wave Representation Using Transmitted Light**
Masaki Abe and Taichi Watanabe
- 1A-2 **Implementation of Global Illumination within Image-Based Distributed Rendering Architecture**
Wenxiang Yang, Asahi Yamada and Suguru Saito
- 1A-3 **Accelerated Ray Tracing Under Strong Gravity Influence by Symplectic Method with Adaptive Step Size**
Yusuke Kobayashi and Takafumi Koike
- 1A-4 **Multi-Kernel Denoising Autoencoder for Particle-Based Rendering**
Masahiro Morii, Amirul Haziq Bin Azman, Naohisa Sakamoto and Takuma Kawamura
- 1A-5 **Procedural Generation of Kitaehada Based on the Fold-and-Forging Process of Japanese Sword Making**
Hitomi Tanaka, Keiko Nakamoto, Yuki Asahina and Takafumi Koike

14:35-16:15 Session 1B: Modeling & Animation ATI Room

Chair: Koji Mikami (Tokyo University of Technology)

- 1B-1 **Physical Simulation of Human Body Model Considering Joint Range of Motion**
Shuhei Era, Kunio Yamamoto and Masaki Oshita
- 1B-2 **Blood Flow and Stress Distribution by the Model with a Blood Flow Control Mechanism**
Nobuhiko Mukai, Kohta Takayama and Youngha Chang
- 1B-3 **Procedural Modeling of Trees with Crown Shyness**
Yuchen Zhang, Toshiki Tanaka, Kai Lenz, Tomoya Ito, Yuriko Takeshima and Tsukasa Kikuchi
- 1B-4 **Visual Simulation of Tire Smoke Considering Load Shift and Frictional Heat**
Tomoya Tamagawa and Tomokazu Ishikawa
- 1B-5 **Editing Camera Work with Virtual Camera and 3D Printed Figures**
Shuntaro Kono, Kunio Yamamoto and Masaki Oshita

Tuesday, March 12

09:00-10:20 Session 2A: Computer Vision & 3D Image Processing (1) F. C. Room

Chair: Taichi Watanabe (Tokyo University of Technology)

- 2A-1 **A Study on Correction Method for Vertical Direction of Earthenware Fragments Based on 3D Measured Point Clouds**
Taishin Kawashima, Mengbo You, Tsutomu Kinoshita and Kouichi Konno
- 2A-2 **Real-Time Intuitive Interaction and Realistic Illumination for CT Volume Rendering**
Kousuke Katayama, Toru Higaki, Kazufumi Kaneda, Bisser Raytchev and Wataru Fukumoto
- 2A-3 **2D-To-3D Conversion Profiling of Monocular Food Images**
Yue-Cong Kuo, Gwo Giun Lee, Chin An Kuo and Natalie Tanjaya
- 2A-4 **An Efficient Smoothing Method for Texture Image for V-PCC Coding**
Shota Fujiwara and Seishi Takamura

09:00-10:20 Session 2B: Virtual, Augmented, and Mixed Reality (1) ATI Room

Chair: Shinji Mizuno (Aichi Institute of Technology)

- 2B-1 **Frequency and Kansei Evaluation of Tones That Change the Sence of Weights with Volume**
Kenji Mizutani, Hiroyuki Nagata, Shunya Matsumoto and Masaki Takeda
- 2B-2 **Investigating Factors Influencing Personal Space Perception in the Metaverse**
Peeraya Sripian and Takashi Ohta
- 2B-3 **Lyrics onto Cityscape: An Augmented Reality System with Visual Experience Harmonizing Music and Surrounding Cityscape**
Rin Izumi, Shuhei Kodama and Tokiichiro Takahashi

2B-4 **A Study on a Round Structure: The Spatial Comparison of Mongolian Ger and Geodesic Dome Using Virtual Environment**
Naranchimeg Usukhbayar, Peng Jiang and Takamitsu Tanaka

09:00-10:20 Session 2C: Security and Privacy Chi-Duan Building

Chair: Osamu Uchida (Tokai University)

2C-1 **Study on the Color Factor That Affects Feelings toward Visual Emergency Notification on Smartphones**

Jirarit Jirasukprasert, Peng Jiang, Satoshi Mikami and Takamitsu Tanaka

2C-2 **Comparative Visualization of Depiction Distribution in Media Mix Works**

Kotomi Iida, Kai Lenz and Yuriko Takeshima

2C-3 **Digital Seal and Digital Sign Using Color-Coded Round or Rounded Rectangular Symbols with Digital Signatures**

Nobuyuki Teraura, Isao Echizen and Keiichi Iwamura

10:35-11:35 Session 3: Poster FF F. C. Room

Chair: Eri Yokoyama (Osaka Institute of Technology)

13:20-14:35 Session 4: Poster1

LBP-02 **Multimedia Information Gateway Service**

Kiyoshi Tanaka

LBP-04 **High-Precision Video Retrieval through Image Generation**

Kazuya Ueki, Haruki Sato, Yuma Suzuki, Takumi Takada, Hiroki Takushima and Takayuki Hori

LBP-05 **Object Detection Method for Drone Videos Using Optical Flow**

Takahiro Shindo, Kein Yamada, Taiju Watanabe and Hiroshi Watanabe

LBP-06 **Extension of Tactical Board Capable of Determining Normative Offensive Sequences for Rugby Sevens**

Kotaro Yashiro, Soma Hirose and Yohei Nakada

LBP-07 **Image Coding for Machines with Objectness-Based Feature Distillation**

Kei Iino, Shunsuke Akamatsu, Hiroshi Watanabe, Shohei Enomoto, Akira Sakamoto and Takeharu Eda

LBP-08 **Creation and Evaluation of a Board Game for Environmental Learning: Gamification for Learning about River Water Quality and Ecosystems**

Ryo Ishii and Mizuho Iinuma

LBP-09 **The Relationship between the Variation in Drawn Lines and Reaction Time in a Simulated Right Turn Situation**

Taisei Inoue, Motonori Ishibashi and Norimasa Yoshida

LBP-10 **Anomaly Detection Using Mist Score from Surveillance Videos**

Takayuki Tozawa and Hironobu Abe

LBP-11 **Occlusion-Robust Faces Recognition Using Multi-Tasking Model with Part Segmentation**

Yuta Akutsu and Akira Kubota

LBP-12 **Edge-Cloud Collaborative Object Detection Model with Feature Compression**

Shunsuke Akamatsu, Kei Iino, Hiroshi Watanabe, Shohei Enomoto, Akira Sakamoto and Takeharu Eda

LBP-13 **Development of a Piano Learning Mobile Application Using Augmented Reality and Hand Tracking**

Wen-Hsin Li, Cheng-Ta Yang and Mizuho Iinuma

LBP-14 **Sentinel-1 Image Shoreline Monitoring Technology in Waisanding Sandbar Based on Deep-Learning**

Kuo-Yu Liao, Bing-Jiun Hsieh, Kuan-Yu Huang, Pei-Yin Chen, Hsiao-Wei Chung, Cheng-Chien Liu, Wen-Chang Yang, Meng-Syue Li and Kun-I Lin

LBP-15 **The Effect of Edge Information in Stable Diffusion Applied to Image Coding**

Hiroshi Watanabe, Luoxu Jin, Taiga Hayami, Takeshi Chujoh, Yukinobu Yasugi, Sujun Hong, Zheming Fan and Tomohiro Ikai

LBP-16 **A Preliminary Study on Quantitative Evaluation of Cataract Using Lens Images**

Kousuke Yasuzawa, Kiyoshi Tanaka, Yoshiki Tanaka, Sho Yokoyama, Kei Ichikawa and Kazuo Ichikawa

LBP-17 **A Preliminary Study on Pupil Tracking in Cataract Surgery Using YOLOv8**

Hayato Yamada, Yoshiki Tanaka, Seiji Tokiwa, Sho Yokoyama, Kiyoshi Tanaka and Kazuo Ichikawa

LBP-18 **Attentive Listening System Using Generative Images and an Affective Emoji**

Keiko Ochi, Koji Inoue, Divesh Lala and Tatsuya Kawahara

14:50-16:10 Session 5A: Image Recognition & Detection (2) F. C. Room

Chair: Seishi Takamura (Hosei University)

5A-1 **Automatic Image Selection System for High School Baseball Player Photos**

Eiji Fukuzawa, Akane Niimi, Yosuke Yamano and Hideaki Tamori

5A-2 **Online Hand-Drawing Pattern Classification Using Sketch-RNN**

Shione Ishida and Kyoko Sudo

- 5A-3 **Estimating the Way of Grasp Complex Contoured Pieces**
Mika Ishino, Kaito Aoki and Kyoko Sudo
- 5A-4 **VigNet: Semiautomatic Generation of Vignette Illustrations from Video**
Mayu Namai and Issei Fujishiro

16:25-17:45 Session 5B: Virtual, Augmented, and Mixed Reality (2) ATI Room

Chair: Kenji Mizutani (Tokai University)

- 5B-1 **Task-Dependent Optimization of Stereophonic Sound in VR Contents**
Ryota Tanaka and Yasunari Obuchi
- 5B-2 **Stability Enhancement in VR Hand Manipulation through Dynamic Truss Structure Connections**
Hiroyoshi Komobuchi and Susumu Maruno
- 5B-3 **An Examination of Motion Analysis during Weight Illusion by Impression Change of the Own Body**
Joichiro Muraoka, Yusei Muraishi, Kosei Tomioka, Mie Sato and Naoki Hashimoto
- 5B-4 **Chronological Changes in the Form of Festival Preparation Works and Their Influence on the Local Community Bonds**
Mika Enomoto and Yasuharu Den

14:50-16:10 Session 5C: Image Recognition & Detection (1) Chi-Duan Building

Chair: Takafumi Koike (Hosei University)

- 5C-1 **Color Compensation for Underwater Images of Battleship Yamato**
Tasuku Yamamoto and Masashi Baba
- 5C-2 **EEG-Based BCI System Using Deep Learning to Control PC Mouse**
Ayoub Mlatem and Tomoko Ozeki
- 5C-3 **Open Vocabulary 3D Multiple Object Tracking through Stereo Camera**
Qingxiang Wang and Hiroshi Hanaizumi
- 5C-4 **Guidance Map Transformation for Lighting Control in Patch-Based Style Transfer**
Muhammad Arief, Hideki Todo and Koji Mikami

16:25-17:45 Session 6A: Computer Vision & 3D Image Processing (2) F. C. Room

Chair: Suguru Saito (Tokyo Institute of Technology)

- 6A-1 **Tube-NeRF: Fast Synthesis of Stereo Novel Views Observed from within a Long Passage**
Yutaro Koike and Takafumi Koike
- 6A-2 **Quantifying the Effect of Image Transformation Using Hypersphere Embedding**
Daiki Ishiguro and Tomoko Ozeki
- 6A-3 **Auxiliary Selection: Optimal Selection of Auxiliary Tasks Using Deep Reinforcement Learning**
Hidenori Itaya, Tsubasa Hirakawa, Takayoshi Yamashita and Hironobu Fujiyoshi
- 6A-4 **Estimating Wiped Rate of Cleaning Process in Semiconductor Manufacturing Using DNN and 3D Body Tracking**
Takehiro Nagata, Li-Wei Cheng, Chun Xie, Hidehiko Shishido and Itaru Kitahara

16:25-17:45 Session 6B: Artificial Intelligence and Deep Learning ATI Room

Chair: Hiroshi Watanabe (Waseda University)

- 6B-1 **Learning Weight Parameter Distribution in Neural Network**
Satoru Fujita
- 6B-2 **FoodGAN: Realistic Cuisine Image Synthesis with Multi-Scale GANs**
Weiyi Xia and Satoru Fujita
- 6B-3 **Deep Neural Network 3D Reconstruction Using One-Shot Color Mapping of Light Ray Direction Field**
Hiroshi Ohno and Takashi Usui
- 6B-4 **Data Augmentation for Image and Clinical Data in Classification of Parotid Tumors by Deep Learning**
Koji Kinoshita, Yumi Onishi, Masaharu Isshiki, Sohei Mitani and Yuki Irifune

16:25-17:45 Session 6C: Computer Vision & 3D Image Processing (3) Chi-Duan Building

Chair: Tomokazu Ishikawa (Toyo University)

- 6C-1 **Development of Interaction Methods Using Physical Objects with a Stereoscopic Mid-Air 3D Image**
Mayumi Takazaki and Shinji Mizuno
- 6C-2 **Frame-Break: Enhancing the Stereoscopic Effect of an Anamorphosis-Based Naked-Eye 3D Imaging System**
Keita Tokunaga and Issei Fujishiro
- 6C-3 **Portable See-through AR Using Parallax Barrier-Based Autostereoscopic 3D Tablet**
Ryotaro Motomiya, Rintaro Akiyama and Takafumi Koike

Wednesday, March 13

09:00-10:00 Keynote #2

F. C. Room

Chair: Kiyoshi Tanaka (Shinshu University)

The Principle and Future Prospects of AIGC Generative Models

Jhing-fa Wang (National Cheng Kung University)

10:15-11:30 Session 7: Poster2

- CTP-01 **Method for Automatically Assigning Appropriate Elevation Values to a River Portion in Digital Elevation Model 5A Data**
Ryosuke Magata, Toshikazu Samura and Katsumi Tadamura
- CTP-02 **An Automatic Face Image Generation System with Pose and Facial Expression Difference for Game Characters Based on StyleGAN2**
Hironobu Abe and Qing Chen
- CTP-03 **A Study on Adaptive Estimation of Camera Extrinsic Using Building Structures to Acquire VR Spherical Images for Remote Control of Robots**
Yudai Onoda and Yoshikazu Yano
- CTP-04 **Real-Time 3D Video Communication System Using Stereo Video Capture and Autostereoscopic Display with Eye Tracking**
Kyoosuke Yanagida, Takafumi Koike, Goro Hamagishi and Hideya Takahashi
- CTP-05 **Preparation of Invisible QR Code Using Achromatic Colors by Thin Film Interference**
Hiromasa Ohsuka and Shuichi Maeda
- CTP-06 **Feature Analysis and Visualization of Title Logos in Japanese Manga**
Momoka Ito, Kai Lenz and Yuriko Takeshima
- LBP-21 **Visual Simulation of Dry Ice Sublimation in Water Using Flame Shape from Combustion Simulation**
Yuito Kobayashi, Kai Lenz, Tomoya Ito, Yuriko Takeshima and Tsukasa Kikuchi
- LBP-22 **Visual Simulation of Spaghetti Using XPBD**
Haruto Sato, Kai Lenz, Tomoya Ito, Yuriko Takeshima and Tsukasa Kikuchi
- LBP-23 **A Research on Enhancing GameFeel by Modifying Hit Stop Duration Based on Gaze Information**
Rena Tomizawa and Tomokazu Ishikawa
- LBP-24 **Proposal for a Coloring Support System for Beginners in Digital Illustration**
Seigi Sakai, Takahiro Yokoi, Tsuyoshi Saitoh and Mizuki Nakajima
- LBP-25 **A Method to Retrieve Drawings as References for Animators**
Masahiro Fuchiue and Suguru Saito
- LBP-26 **Computer Graphics Modeling of Human Speech Organs**
Makoto J. Hirayama
- LBP-27 **Modulated Reality Using Depth Fusion: Proposal of a New Type of Extended Reality**
Hideaki Takada, Masahiro Suzuki and Kazutake Uehira
- LBP-28 **3D Pose Estimation Using Time Series Data in Event-Based Video**
Kakeru Koizumi and Hiroshi Watanabe
- LBP-29 **Data Augmentation with 3D-Rendered Models for Livestock Recognition Using Drone Footage**
Kein Yamada, Takahiro Shindo, Taiju Watanabe and Hiroshi Watanabe
- LBP-30 **ISEM: Information Sharing System for Evacuation Center Management**
Osamu Uchida, Yoshihide Nakagawa, Wataru Noguchi and Kenji Okami

13:15-18:00 Excursion

18:30-20:00 Banquet

Nong Yuan Man Han Restaurant (濃園滿漢餐廳)

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Thursday, March 14

| | | |
|--|--|------------|
| 09:00-10:20 | Session 8A: Virtual, Augmented, and Mixed Reality (3) | F. C. Room |
| | Chair: Takashi Ohta (Tokyo University of Technology) | |
| 8A-1 | Combination of Environmental Coefficients and Pedestrian Behavior toward Autonomous Vehicles Kenji Mizutani, Ryuto Masuda and Kouu You | |
| 8A-2 | A Verification Experiment Whether Overlaying a CG Image Can Enhance the Illusion of Taste Induced by Food Pairing Taiyo Taguchi and Tomokazu Ishikawa | |
| 8A-3 | An Examination of the Effects of Font Size on Reading in VR and on a Display Shogo Nishida, Kei Kanari and Mie Sato | |
| 8A-4 | Analysis of Moving Single Pictures to Improve the Sense of Presence Mio Yamada and Takafumi Koike | |
| 09:00-10:20 | Session 8B: Medical Image Processing | ATI Room |
| | Chair: Tomoko Ozeki (Tokai University) | |
| 8B-1 | 2D-3D Registration Method for X-Ray Image Using 3D Reconstruction Based on Deep Neural Network Pragyan Shrestha, Chun Xie, Hidehiko Shishido, Yuichi Yoshii and Itaru Kitahara | |
| 8B-2 | White Blood Cells Classification with YOLOv7: Single and Cascade Classification Approaches for Images Segmented by Cellavision DM96 Thalita Munique Costa, Yoko Usami, Mai Iwaya, Yuka Takezawa, Yuika Natori, Hernan Aguirre and Kiyoshi Tanaka | |
| 8B-3 | A Real-Time Polyp Detection Method Based on GhostAtt-YOLOv8 Phuong Thao Nguyen and Hiroshi Watanabe | |
| 8B-4 | A Computer-Aided-Diagnosis System for Hallux Valgus Ayumu Kubota, Hiroshi Hanaizumi, Yoshiteru Watanabe, Shungo Murai, Ryo Tohara and Nobuhide Kawabe | |
| 10:35-11:35 | Keynote #3 | F. C. Room |
| | Chair: Gwo Giun Lee (National Cheng Kung University) | |
| Bringing Generative AI to Your Fingertips TY Lin (MediaTek Inc.) | | |
| 13:20-17:00 | Special Session: Industry Forum | F. C. Room |
| | Organizers: Gwo Giun Lee (National Cheng Kung University) and Seishi Takamura (Hosei University) | |
| 13:20-14:00 | Session 9: Multimedia | ATI Room |
| | Chair: Kiyoshi Tanaka (Otsuma Women's University) | |
| 9-1 | Creation of a Digital Literary Map of Kawakami Village, Yoshino Gun, Nara Prefecture for Regional Revitalization Eri Yokoyama, Hiroshi Sunaga and Makoto J Hirayama | |
| 9-2 | Smartphone-Based Continuous Authentication Based on Flick Input Features Using Japanese Free Text Shuto Kinoshita and Yasushi Yamazaki | |
| 14:15-15:15 | Session 10: Image Recognition & Detection (3) | ATI Room |
| | Chair: Makoto Hirayama (Osaka Institute of Technology) | |
| 10-1 | Jewelry Image-to-Image Translation with Consistency Regularization and Data Augmentations Taiyo Nakagawa and Tomoko Ozeki | |
| 10-2 | Effect of visual saliency on emotions while viewing paintings Yuma Sasaki, Mie Sato and Kei Kanari | |
| 10-3 | Deformation Invariant Palmprint Recognition with Multiple-Resolution Feature Matching Mika Sakuma and Satoru Fujita | |
| 17:00-17:20 | Closing | F. C. Room |

Special session: Industry Forum
AI and the Era of Smart Semiconductors

Program

| | |
|--------------------|---|
| 13:20-13:30 | Opening Remarks |
| | Dr. Shouu-Jinn Chang (Distinguished Professor College of Electrical and Computer Engineering, NCKU, Taiwan) |
| 13:30-16:30 | Algorithm/Architecture Co-Design: From Algorithm to Architecture, and below ... |
| | Chair: Seishi Takamura (Hosei University, Visiting Senior Distinguished Scientist, NTT Corporation, Japan) |
| 13:30 | Invited Talk: SoC VLSI Physical Layouts and EDA Solutions to Enable Single-Digit Nanometer Semiconductor Volume Production for the Upcoming Artificial Intelligence Dr. Keh-Jeng Chang, Deputy Director (Taiwan Semiconductor Manufacturing Company (TSMC), Hsinchu, Taiwan) |
| 14:00 | Distinguished Lecture Host: Prof. Cheng-Ta Chiang (Chapter Chair IEEE CAS Society, Tainan Chapter, National Chia Yi University, Taiwan) IEEE CASS Tainan Chapter, Distinguished Lecture: Designing a Hardware Solution for Deep Neural Network Training Prof. Dongsuk Jeon (Seoul National University, Korea) |
| 15:15 | Break |
| 15:30 | Invited Talk: MediaGnosis: Towards Building Multimodal Foundation Model Dr. Ryo Masumura (NTT Corporation, Japan) |
| 16:00 | Invited Talk: Algorithm-Architecture Co-design for 4K HDR Video Applications in IC Design Industry Dr. He Yuan Lin (MediaTek, Taiwan) |
| 16:30-17:00 | Panel Discussion: Emerging trends in Algorithm/Architecture Co-Design for AI & Young Professions/Students in this New Era |
| | Chair: Gwo Giun Lee (National Cheng Kung University) Dr. Keh-Jeng Chang (TSMC), Prof. Dongsuk Jeon (SNU), Dr. He Yuan Lin, Eden Tsai (MediaTek) |

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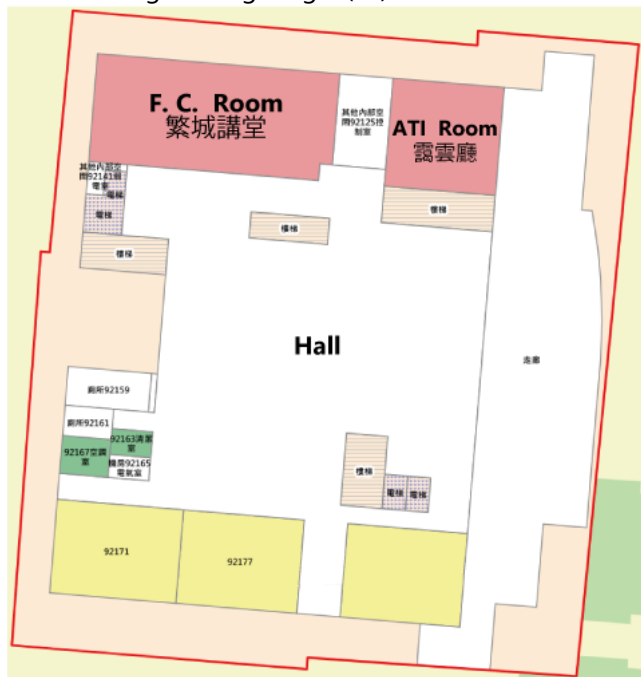
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Seishi Takamura (Professor, Hosei University; Visiting Senior Distinguished Scientist, NTT Corporation, Japan)

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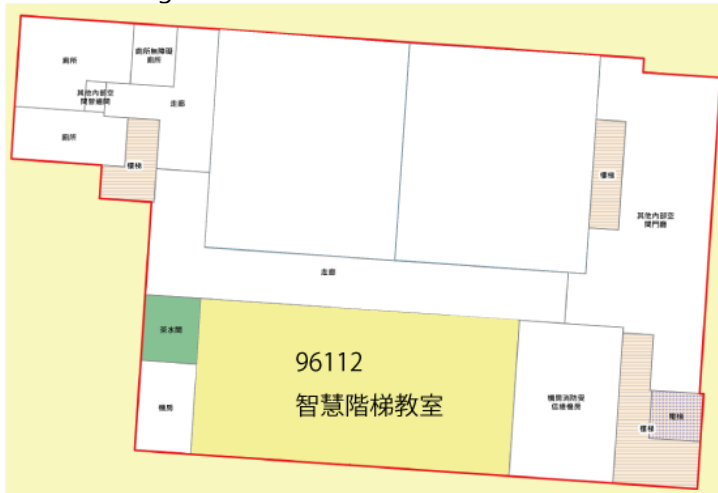
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Maps

Electrical Engineering Bldg. I (1F)



Chi Duan Bldg.



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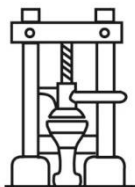
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