

Technical Program

Thursday, November 22

9:00-9:20

1R : Inaugural Session

(Grand Ballroom II & III)

Moderator : Prof. Kiyoshi Tanaka (Shinshu University)

[1R-1] Opening Remark : Prof. Fumitaka Ono (Tokyo Polytechnic University)

[1R-2] Welcome Remark : Prof. Khairuddin Ab. Hamid (University of Malaysia Sarawak)


9:20-10:20

1S : Keynote Speech

(Grand Ballroom II & III)

Chair : Prof. Takafumi Saito (Tokyo University of Agriculture and Technology)

- [1S -1] The role of movie and telephone in the history of communication media
Prof. Ryohei Nakatsu (National University of Singapore)

Coffee Break (10:20-10:50) 

10:50-12:30

1A : Watermarking and Image Processing (1)

(Grand Ballroom II)

Chair : Dr. Wong KokSheik (University of Malaya)

- [1A -1] Improvement on reversible data embedding method using virtual queue decomposition
○[SimYing Ong](#), KokSheik Wong (University of Malaya), Kiyoshi Tanaka (Shinshu University)
- [1A -2] Edge detection algorithm for depth map generation in free view video
○[Akira Inoue](#), Satoshi Goto (Waseda University)
- [1A -3] Reversible visible watermark technique in DCT compressed domain
○[Kazuki Minemura](#), KokSheik Wong (University of Malaya)
- [1A -4] Optical watermarking technique applied to moving objects
Yasunori Ishikawa, Kazutake Uehira, ○[Kazuhisa Yanaka](#) (Kanagawa Institute of Technology)

10:50-12:30

1B : Perceptual Graphics

(Grand Ballroom III)

Chair : Prof. Mikio Shinya (Toho University)

- [1B -1] Visualization of document reference relationship based on time **sequences**
○[Takuya Okada](#), Hidefumi Watanabe, Takafumi Saito (Tokyo University of Agriculture and Technology)
- [1B -2] Analysis of limited animation structure
○[Chieko Harayama](#), Akihisa Kodate (Tsuda College)
- [1B -3] Multi-perspective rendering from unstructured image sequences
○[Shohei Tatsuno](#), Masashi Baba, Shinsaku Hiura, Naoki Asada (Hiroshima City University)
- [1B -4] Visibility evaluation of presentation slides based on human visual features
○[Takahiro Izumi](#), Takafumi Saito (Tokyo University of Agriculture and Technology)
- [1B -5] Characteristics of color visual acuity for normal eyes of young subjects
○[Yoshiki Tanaka](#), Kiyoshi Tanaka (Shinshu University), Sho Yokoyama, Hideki Nakamura, Kazuo Ichikawa (Social Insurance Chukyo Hospital / Research Institute of Color Vision), Shoko Tanabe (Research Institute of Color Vision)

10:50-12:30


1C : 3D (1)

(Rajawali & Selasih)

Chair : Prof. Jun Ohya (Waseda University)

- [1C -1] True 3D motion object tracking by a single monocular pan/tilt camera

- [Michael Hild](#), Hirohito Shima (Osaka Electro-Communication University)
12. [1C -2] The complex hologram of the diffracted electromagnetic wave in pyramidal horn antenna
 ○[Makoto Ohki](#) (Shonan Institute of Technology), Kunihiro Takano (Tokyo Metropolitan College of Industrial Technology), Masataka Tozuka, Koki Sato (Shonan Institute of Technology), Shogo Kozaki (Gunma University)
13. [1C -3] Three-dimensional recovery of buildings environment under Manhattan-world constraint
 Yasuhiro Ohyama, Joo Kooi Tan, Hyungseop Kim, ○[Seiji Ishikawa](#) (Kyushu Institute of Technology)
14. [1C -4] Real-time 3D user data processing with optimized meshes
 ○[S. Sankaraiah](#), H. S. Lam, C. Eswaran, W. K. Lim, W. K. Soo, Junaidi Abdullah (Multimedia University)
15. [1C -5] An interactive 3D avatar platform on the OpenSim server controlled with IronPython language
 ○[Hiroshi Dohi](#), Mitsuru Ishizuka (The University of Tokyo)

Lunch (12:30-14:00) 


14:00-16:00

1P : Poster Session (1)

(1st Floor Foyer)

Chair : Prof. Osamu Uchida (Tokai University)

16. [1P -1] Analysis of face direction by players in Indian-poker game
 ○[Eiji Watanabe](#) (Konan University), Takashi Ozeki (Fukuyama University), Takeshi Kohama (Kinki University)
17. [1P -2] A study on cognitive roles of graphics and images in technical document
 ○[Kunio Ohno](#) (Azuchi Inc.)
18. [1P -3] Recognition of character included in image dependence on character meaning and image content
 ○[Tatuya Itami](#), Yasushi Hoshino (Nippon Institute of Technology)
19. [1P -4] Multi size eye detection on digitized comic image
 ○[Daisuke Ishii](#), Taichi Yamazaki, Hiroshi Watanabe (Waseda University)
20. [1P -5] A method of hand model recognition for visually interfaces
 ○[Takashi Ozeki](#), Hou Yichirayi (Fukuyama University), Eiji Watanabe (Konan University)
21. [1P -6] Automatic data recording and analyzing system for tennis
 ○[Shun Kitahara](#), Osamu Uchida (Tokai University)
22. [1P -7] Normal estimation from texture using a novel Gabor filter bank
 ○[Guangyao Liu](#), Suguru Saito (Tokyo Institute of Technology)
23. [1P -8] Reduction of maximum number of filters for adaptive loop filter
 ○[Masaaki Matsumura](#), Seishi Takamura, Atsushi Shimizu (NTT Corporation)
24. [1P -9] MPEG-2/H.264 intra transcoding for reducing re-quantization noise using a quantizer matrix
 ○[Masamichi Kobayashi](#), Hajime Koge, Masaki Taguchi, Kazu Mishiba, Takeshi Yoshitome (Tottori University)
25. [1P -10] Distributed video coding based on selective data pruning and high-order edge-directed interpolation
 ○[Ha Vu Le](#) (Utsunomiya University), Tuan Tai Phan (Tokyo Institute of Technology), Yuichi Tanaka (Tokyo University of Agriculture and Technology), Madoka Hasegawa, Shigeo Kato (Utsunomiya University)
26. [1P -11] Video retrieval methods based on motion vectors and their evaluation
 ○[Mei Kodama](#) (Hiroshima University)
27. [1P -12] Multi-modal features in search and mining towards automatic annotating of video
 ○Luh Foster Kojo (Multimedia University)
28. [1P -13] An efficient structure aware halftoning using bit-climber
[Aroba Khan](#), Hernan Aguirre, ○[Kiyoshi Tanaka](#) (Shinshu University)

Coffee Break (16:00-16:30) 

16:30-18:10

2A : Interface and Measurement

(Grand Ballroom II)

Chair : Prof. Narayanan Kulathuramaiyer (University of Malaysia Sarawak)

29. [2A -1] Evaluation on learnability and effectiveness of DNA motif visualization using sequence logo
○[Yin Bee Oon](#), Nung Kion Lee, Seng Siang Wong (University Malaysia Sarawak)
30. [2A -2] Flow analysis to estimate number of pedestrians in crowded situations
Isamu Igarashi, Naoki Ito, ○[Hiroyuki Arai](#) (NTT Corporation), Masashi Morimoto (Aichi Institute of Technology)
31. [2A -3] A data-glove-based interface for motion selection and style **control**
○[Nik Isrozaidi Nik Ismail](#) (Kyushu Institute of Technology / University of Technology Malaysia), Masaki Oshita (Kyushu Institute of Technology)
32. [2A -4] Study of a teacher support method for improving lectures for e-learning on demand
Takaaki Ohkawauchi, ○[Jun Ohya](#) (Waseda University), Shunichi Yonemura, Yukio Tokunaga (Shibaura Institute of Technology)
33. [2A -5] Human detection from an image employing reduced number of weak-classifiers
○[Yusuke Ehara](#), Joo Kooi Tan, Hyoungseop Kim, Seiji Ishikawa (Kyushu Institute of Technology)

16:30-18:10

2B : Animation

(Grand Ballroom III)

Chair : Prof. Suguru Saito (Tokyo Institute of Technology)

34. [2B -1] Interactive human style deformation for cyclic motions
○[Muhamad Najib Zamri](#) (Kyushu Institute of Technology / University of Technology Malaysia), Hiroaki Tanaka, Masaki Oshita (Kyushu Institute of Technology)
35. [2B -2] Development and evaluation of a CG videotext for Tai Chi Chuan self-study
○[Satoshi Nakajima](#), Mikio Shinya, Michio Shiraiishi, Hidetsugu Katsuragawa (Toho University), Yuko Ogawa (Thinklogic Co. ,Ltd.), Motonobu Kawashima, Kunio Kondo (Tokyo University of Technology)
36. [2B -3] Efficient image registration for cartoon animation
○[Pablo García Trigo](#) (The University of Tokyo), Yoshihiro Kanamori (University of Tsukuba), Sei Imai, Yonghao Yue, Tomoyuki Nishita (The University of Tokyo)
37. [2B -4] Mass-spring simulation based on the unconditionally stable explicit method
Yuji Fujii (Cube System), ○[Norimasa Yoshida](#), Makoto Kanda, Toshio Saito (Nihon University), Mikio Shinya (Toho University)
38. [2B -5] Simulating plant color aging taking into account the sap flow in the venation
○[Paulo Silva](#), Yonghao Yue (The University of Tokyo), Bing-Yu Chen (National Taiwan University), Tomoyuki Nishita (The University of Tokyo)

16:30-18:10

2C : Image Coding (1)

(Rajawali & Selasih)

Chair : Prof. Hiroshi Watanabe (Waseda University)

39. [2C -1] High-resolution imaging method and applying for video coding
○[Yuji Hirose](#), Yoshinori Hatori (Tokyo Institute of Technology)
40. [2C -2] Improvements of duplication free run-length coding for textured images
○[Mustafa S. Abdul Karim](#), KokSheik Wong (University of Malaya)
41. [2C -3] Studies of B-picture coding using non-causal interpolative prediction with motion compensation
○[Kojiro Baba](#), Yoshinori Hatori (Tokyo Institute of Technology)
42. [2C -4] Compression algorithm for multi-view video coding using a depth map
○[Yohei Matsui](#), Satoshi Goto (Waseda University)

43. [2C -5] Studies of evaluating video coding methods using equivalent bits
○Masayuki Naito, Yoshinori Hatori (Tokyo Institute of Technology)

Friday, November 23

9:00-9:20

2R : Starting Session

(Grand Ballroom II & III)

Moderator : Prof. Kiyoshi Tanaka (Shinshu University)

[2R -1] Starting Remark : Prof. Mitsuji Matsumoto (Waseda University)

[2R -2] Starting Remark : Prof. Raveendran A/L Paramesran (University of Malaya)

9:20-10:20


2S : Invited Talk

(Grand Ballroom II & III)

Chair : Prof. Fumitaka Ono (Tokyo Polytechnic University)

44. [2S -1] Visual quality evaluation for images and videos

Prof. Ngan King Ng (The Chinese University of Hong Kong)

Coffee Break (10:20-10:50) 

10:50-12:30

3A : Image Recognition (1)

(Grand Ballroom II)

Chair : Dr. Chan Chee Seng (University of Malaya)

45. [3A -1] Trajectory learning for event recognition in video surveillance

○Lih Lin Ng, Hong Siang Chua (Swinburne University of Technology)

46. [3A -2] Classification of Malaysian faces and its application to face recognition

○Chee Suit Chan, Mohammad Faizal Ahmad Fauzi, Mohd Haris Lye Abdullah (Multimedia University)

47. [3A -3] Human detection algorithm based on hybrid information in images

○Hiroki Ichikawa, Satoshi Goto (Waseda University)

48. [3A -4] Vector road network construction from raster road area using belief propagation

○Takumi Uemura (Sojo University), Keiichi Uchimura, Gou Koutaki (Kumamoto University)

49. [3A -5] Clustering algorithms for scene classification - A performance comparison between K-means, Fuzzy c-means and GMM

Hu Yuhuang, Wai Lam Hoo, ○Chee Seng Chan (University of Malaya)

10:50-12:30

3B : Service and Applications

(Grand Ballroom III)

Chair : Prof. Naoki Kobayashi (Saitama Medical University)

50. [3B -1] Fight!! our shadow robo: digital workshop by using paper craft

○Naoki Suga, Hiroshi Suzuki, Hisashi Sato (Kanagawa Institute of Technology)

51. [3B -2] Automatic music video creation system by reusing existing contents in video-sharing service based on HMM

○Hayato Ohya, Shigeo Morishima (Waseda University / JST CREST)

52. [3B -3] Invited (1): Visual based fall detection research activities in digital home lab

○Yoong Choon Chang (Multimedia University)

53. [3B -4] Invited (2): HTML5 as a new platform for advanced user experience

○Hiromasa Yanagihara, Shigeyuki Sakazawa, Yasuhiro Takishima (KDDI R&D Laboratories, Inc.)

10:50-12:30


3C : Image Retrieval

(Rajawali & Selasih)

Chair : Prof. Mei Kodama (Hiroshima University)

54. [3C -1] Unsupervised trademark image retrieval in soccer telecast using wavelet energy

- S. K. Ong, W. K. Lim (Multimedia University)
55. [3C -2] Unsupervised similar image retrieval using combination of shape- and color- based features
○Shinya Nakanishi, Yoshiki Mizukami, Katsumi Tadamura (Yamaguchi University)
56. [3C -3] A study of video tagging for digital animation
○Tomoko Ogata, Akihisa Kodate, Michio Shimomura (Tsuda College)
57. [3C -4] Interactive motion similarity retrieval via the lasso
○Hiromu Miyashita, Satoshi Shimada, Takashi Satou, Suguru Higashino (NTT Service Evolution Laboratories)
58. [3C -5] An accurate close-up shot detection method with parallel distributed processing
○Mitsuhiro Goto, Takashi Satou, Suguru Higashino (NTT Service Evolution Laboratories)

Lunch (12:30-14:00) 

14:00-16:00


2P : Poster Session (2)

(1st Floor Foyer)

Chair : Dr. Daisuke Tsuda (Fuji Xerox Co. , Ltd.)

59. [2P -1] On a study of the holographic 3D image reconstructing system adopted water flow screen
○Kunihiko Takano (Tokyo Metropolitan College of Industrial Technology), Koki Sato (Shonan Institute of Technology), Kazuki Motojima, Tomoya Yaguchi, Seiya Kikumoto (Tokyo Metropolitan College of Industrial Technology), Makoto Ohki (Shonan Institute of Technology), Kikuo Asai (The Open University of Japan)
60. [2P -2] Inter-camera model image source identification with conditional probability features
○Ainuddin Wahid Abdul Wahab (University of Malaya), Anthony T.S. Ho, Shujun Li (University of Surrey)
61. [2P -3] A study of subset-pixel-based color transform for the efficient compression of H&E stained whole slide images
○Naoki Kobayashi, Kazuma Shinoda, Ayako Katoh, Hideki Komagata (Saitama Medical University), Masahiro Yamaguchi (Tokyo Institute of Technology), Tokiya Abe, Akinori Hashiguchi, Michiie Sakamoto (Keio University)
62. [2P -4] Contourlet Transform based enhanced brain MR image segmentation
○Arshad Javed (University of Malaysia Sarawak / Al-Jouf University), Wang Yin Chai, Narayanan Kulathuramaiyer (University of Malaysia Sarawak)
63. [2P -5] Design of photo selection support system for social networking services
○Yasuko Shirataka, Akihisa Kodate (Tsuda College), Daichi Namikawa, Hiroya Minami, Michio Shimomura (NTT Service Evolution Laboratories)
64. [2P -6] Algorithm that uses self-organizing map and morphological features to extract hepatic fat droplets
○Ayako Katoh, Emi Shimada, Naoki Kobayashi, Hideki Komagata (Saitama Medical University), Fumikazu Kimura, Masahiro Yamaguchi (Tokyo Institute of Technology), Tokiya Abe, Akinori Hashiguchi, Michiie Sakamoto (Keio University)
65. [2P -7] Proposal of autonomous learning using learning log
○Tomoyo Komatsu, Akihisa Kodate (Tsuda College)
66. [2P -8] Object extraction using statistical analysis for three-dimensional shape measurement system employing optical pattern projection
○Geer Cheng, Hideo Furuhashi (Aichi Institute of Technology)
67. [2P -9] Color compensation method to display images looking similar to their original ones for elderly people
○Ryoji Suzuki, Yoshiki Tanaka, Hernan Aguirre, Kiyoshi Tanaka (Shinshu University), Sho Yokoyama, Hideki Nakamura, Kazuo Ichikawa (Social Insurance Chukyo Hospital / Research Institute of Color Vision), Shoko Tanabe (Research Institute of Color Vision)

68. [2P -10] Multivariate data visualization using shadow
 ○Zhongxiang Zheng, Suguru Saito (Tokyo Institute of Technology)
69. [2P -11] Development of a system for visualizing crime occurrence information distributed through e-mail magazine service
 ○Ryo Yanagawa, Ryuhei Yamasaki, Junichi Matsuda, Yoshiki Mizukami, Katsumi Tadamura (Yamaguchi University)
70. [2P -12] Discrimination of facial expression using of feature points obtained by motion capture system
 ○Shunta Yamamoto, Kaori Iwasa, Shunsuke Nagata, Yoshinori Inaba, Shigeru Akamatsu (Hosei University)

Coffee Break (16:00-16:30) 

16:30-18:10

4A : Watermarking and Image Processing (2) (Grand Ballroom II)

Chair : Prof. Madoka Hasegawa (Utsunomiya University)

71. [4A -1] A survey of information hiding in H. 264/AVC
 ○Yiqi Tew, KokSheik Wong (University of Malaya)
72. [4A -2] Photography signals of a camera built within mobile phone
 ○Yushi Komachi (Osaka Institute of Technology)
73. [4A -3] Information hiding in transitional regions for DCT compressed contents
 ○Zahra Moayed, Koksheik Wong (University of Malaya)
74. [4A -4] Study of generating portraits using neural networks - Portraits that consist of facial contour, eyebrows, eyes and mouth-
 Makoto Enomoto, Akira Takano, ○Jun Ohya (Waseda University)
75. [4A -5] Feature analysis of ultrasonic c-scan image for non destructive evaluation
 ○Rashiqah Rashli, Elmi Abu Bakar, Abd Rahim Othman (University Sains Malaysia)

16:30-18:10

4B : Object Detection and Measurement (Grand Ballroom III)

Chair : Prof. Kazufumi Kaneda (Hiroshima University)

76. [4B -1] Face detection and face recognition of cartoon characters using feature extraction
 ○Kohei Takayama (The University of Tokyo), Henry Johan (Nanyang Technological University), Tomoyuki Nishita (The University of Tokyo)
77. [4B -2] Information extraction about traffic situation of railway with web camera images
 ○Kohei Ito, Takafumi Saito (Tokyo University of Agriculture and Technology)
78. [4B -3] Automatic detection of masses in ultrasound phantom images
 ○Farzan Khatib, Rozi Mahmud, Syamsiah Mashohor, M. Iqbal Saripan, Raja Syamsul Azmir Raja Abdullah (University Putra Malaysia)
79. [4B -4] An improved method for quantitative extraction of plant initial growth by using two spatio-temporal projection images
 ○Taichi Kudo, Takanari Tanabata, Takafumi Saito (Tokyo University of Agriculture and Technology)
80. [4B -5] Quantitative shape estimation of Hiroshima a-bomb mushroom cloud from photos
 ○Masashi Baba, Fumio Ogawa, Shinsaku Hiura, Naoki Asada (Hiroshima City University)

16:30-18:10

4C : Virtual Reality, 3D (2) and Simulation (Rajawali & Selasih)

Chair : Prof. Shigeru Akamatsu (Hosei University)

81. [4C -1] Development of the active medical learning support system for students to be a welfare profession based on virtual anatomical model
 ○Masami Terajima (Chubu-Gakuin University), Ryugo Kijima (Gifu University), Ken Okamoto

(Chubu-Gakuin University)

82. [4C -2] Consideration about most suitable design for electro-holographic stereogram

○Koki Sato, Masataka Tozuka, Makoto Ohki (Shonan Institute of Technology), Kunihiko Takano (Tokyo Metropolitan College of Industrial Technology)

83. [4C -3] Interaction technique between virtual objects and user body by predicting visually perceived locations

○Hiroshi Unno, Keigo Takazawa, Masahiro Suzuki, Kazutake Uehira (Kanagawa Institute of Technology)

84. [4C -4] "Heterogeneous smart technology unit" scheme of tsunami wave-absorbing fluid-structure interaction analysis by FEM optimal placement by the newshape breakwater and offshore wind power

○Yoshimitsu Nagao (Waseda University), Kihei Tsutsui (Rancemore Corporation), Akinori Tani (Kobe University), Mitsuji Matsumoto (Waseda University)

19:00-21:00

Banquet

(Grand Ballroom II & III)



Saturday, November 24

9:00-9:20

Starting Session

(Grand Ballroom II & III)

Moderator : Prof. Kiyoshi Tanaka (Shinshu University)

[3R-1] Starting Remark : Prof. Yoshinori Hatori (Tokyo Institute of Technology)

[3R-2] Starting Remark : Dr. Yoong Choon Chang (Multimedia University)

9:20-10:20

3S : Invited Talk

(Grand Ballroom II & III)

Chair : Prof. Yoshinori Hatori (Tokyo Institute of Technology)

85. [3S -1] Design of image quality metric using Tchebichef moments

Prof. Raveendran A/L Paramesran (University of Malaya)

Coffee Break (10:20-10:50)

10:50-12:30

5A : Image Recognition (2)

(Grand Ballroom II)

Chair : Dr. Kunio Ohno (Azuchi Inc.)

86. [5A -1] Smash motion analysis for badminton from image

○Makiko Nagasawa, Yoshinori Hatori (Tokyo Institute of Technology), Mitsugu Kakuta, Tadao Hayashi, Yoshio Sekine (Nippon Sports Science University)

87. [5A -2] A BK subproduct approach for scene classification

○Ekta Vats, Chee Kau Lim, Chee Seng Chan (University of Malaya)

88. [5A -3] Japanese manual alphabet recognition from still images using a neural network model

○Makoto J. Hirayama, Masahiro Funakawa (Kanazawa Institute of Technology)

89. [5A -4] Towards semantic clustering: grouping image visual features through exploratory factor analysis

○Lim Phei Chin, Narayanan Kulathuramaiyer, Dayang Nur Fatimah Awg. Iskandar, Chiew Kang Leng (University of Malaysia Sarawak)

10:50-12:30

5B : Modeling and Rendering

(Grand Ballroom III)

Chair : Prof. Katsumi Tadamura (Yamaguchi University)

90. [5B -1] Boundary rectification for open surface meshes

○W. Z. Lee, W. K. Lim, W. K. Soo (Multimedia University)

91. [5B -2] An ellipsoid shape approximation approach for 3D shape representation

○Asma Khatun, Wang Yin Chai, DNF Awang Iskandar, Md. Rabiul Islam (University of Malaysia, Sarawak)

92. [5B -3] A simulation system to synthesize rope rolling patterns in a virtual space for research on Jomon ware

○Shinji Mizuno, Kengo Takai (Aichi Institute of Technology), Makoto Ueda (PASCO Corporation), Ryuji Takaki (Kobe Design University)

93. [5B -4] A rendering method for subsurface scattering effects using interpolated luminance distribution functions

Tomohisa Manabe (Kagawa National College of Technology), ○Ayaka Furutsuki, Bisser Raytchev, Toru Tamaki, Kazufumi Kaneda (Hiroshima University)

94. [5B -5] Visual simulation of magnetic fluid taking into account dynamic deformation in spikes

○Tomokazu Ishikawa (Tokyo University of Technology), Yonghao Yue (The University of Tokyo), Kei Iwasaki (Wakayama University), Yoshinori Dobashi (Hokkaido University), Tomoyuki Nishita (The University of Tokyo)

10:50-12:30

5C: Image Coding (2), Image Assessment and Communication

(Rajawali & Selasih)

Chair : Prof. Itaru Kaneko (Tokyo Polytechnic University)

95. [5C -1] An adaptive binary arithmetic coder using a state transition table

○Ikuro Ueno, Fumitaka Ono (Tokyo Polytechnic University)

96. [5C -2] Development and applications of the JPEG2000 4k high-resolution image codec system

○Tetsuro Kuge (NHK Engineering Services, Inc.), Jyunichi Aotsuka, Sigeru Tamua (TM Research Co.LTD.), Masumi Shimidu, Kazo Tanaka (SEIKO Precision Inc.), Tsuneji Yasuda (NHK Engineering Services, Inc.), Naohiko Iai (NHK)

97. [5C -3] Design and analysis of a local k-distance model for visual quality assessment

○David B. L. Bong (University of Malaysia Sarawak), B. E. Khoo (University Sains Malaysia)

98. [5C -4] A heuristic approach to design broadband microstrip patch antenna

○Salehin Kibria, Mohammad Tariqul Islam, Rezaul Azim (University Kebangsaan Malaysia)

99. [5C -5] A low speed uplink with diverged laser beam and multiple receivers for indoor optical wireless system

○Dimitar R. Kolev, Mitsuji Matsumoto (Waseda University)

12:40-13:10

Award & Closing

(Grand Ballroom II & III)