

International Forum on Medical Imaging in Asia (IFMIA) 2021

Sunday 24TH January 2021 09:00 – 16:10 TAIPEI

Workshop on Intelligent Medical and Healthcare in Taiwan

on-site: Conference Hall of Tsai Lecture Hall, National Taiwan University

Morning Session		
Time	Subject	Speaker
08:30~09:00	Registration	
09:00~09:20	<ul style="list-style-type: none"> • Opening Remarks • Introduction of All Vista Healthcare Center 	
09:20~09:30	Group Photo	
09:30~10:00	Keynote Speech I: Toward 2030 Data Driven Precision Health	General Director Chii-Wann Lin Biomedical Technology and Device Research Laboratories, Industrial Technology Research Institute
10:00~10:25	Exposome and Telehealth in Cardiovascular Diseases	Director Yi-Lwun Ho Department of Internal Medicine, Nation Taiwan University Hospital
10:25~10:50	The Role of Universal Health Care (UHC) in the Identification of the Digital Phenotype: a Systematic Review of Operational Healthcare AI, and its Implications on Healthcare Financial Stability	CEO Anthony Lee Knowtions Research
10:50~11:10	Coffee Break	
11:10~11:35	The Answer to "Being toward Death" and Unleashing the Power of Precision Medicine: OWL Digital Pathology	Dr. Tseng-Lung Yang Kaohsiung Veterans General Hospital
11:35~12:00	International Federated Learning for Oxygen Need Predictions of COVID-19 Patients	Prof. Weichung Wang MeDa Lab and Institute of Applied Mathematical Sciences, National Taiwan University
12:00~13:30	Lunch Break	
Afternoon Session		
13:30~14:00	Keynote Speech II: Paradigm Shift of Medicine: from Superficial Medicine to Deep Medicine	Superintendent Ming-Shiang Wu National Taiwan University Hospital
14:00~14:25	AI Assists in Breast Ultrasound Screening and Diagnosis of Small Lesions BR-FHUS Smart System and BR-USCAD DS	Director Hsu Jen Feng AI Division, TaiHao Medical Inc.

14:25~14:50	The Necessity and Trend of Interpretable AI Platforms in Smart Healthcare	AI Consultant Ming-Ta Tu Future Technology R&D Team, inwinSTACK Inc.
14:50~15:10	Coffee Break	
15:10~15:35	Segmentation Enhanced Pseudo-coloring on Medical Images	Prof. Sheng-Lung Huang Graduate Institute of Photonics and Optoelectronics (GIPO), Department of Electrical Engineering, National Taiwan University
15:35~16:00	Last Mile for the Medical Image AI	System Specialist Jason Chou EBM Technologies Inc.
16:00~16:10	Closing Remarks	

IFMIA 2021 PROGRAM

Monday 25TH January 2021 09:00 – 16:30 TAIPEI

Online

Morning Session

09:00~10:40	<u>Best Oral Paper Competition</u> <u>Section Chair: Ruey-Feng Chang and Yoshitaka Masutani</u>					
	09:00-09:10	09:10-09:20	09:20-09:30	09:30-09:40	09:40-09:50	
	7	68	28	14	76	
	09:50-10:00	10:00-10:10	10:10-10:20	10:20-10:30	10:30-10:40	
	35	25	87	58	45	
10:40~11:00	Break					
11:00~12:00	<u>Best Poster Paper Competition</u> <u>Section Chair: Seungryong Cho and Chih-Chung Huang</u>					
	11:00-11:06	11:06-11:12	11:12-11:18	11:18-11:24	11:24-11:30	
	42	34	62	41	67	
	11:30-11:36	11:36-11:42	11:42-11:48	11:48-11:54	11:54-12:00	
	75	43	70	77	50	
12:00~13:00	Lunch Break					
Afternoon Session						
13:00~14:30	<u>Deep Learning in Computer Aided System I</u> <u>Section Chair: Feng Lin and Kensaku Mori</u>					
	13:00-13:15	13:15-13:30		13:30-13:45		
	23	29		39		
	13:45-14:00	14:00-14:15		14:15-14:30		
	52	64		92		
14:30~14:55	Break					
14:55~16:30	<u>Poster Session I</u> <u>Section Chair: Bo Kyung Cha, Chung-Ming Lo, and Wei-Chih Shen</u>					
	14:55-15:00	15:00-15:05	15:05-15:10	15:10-15:15	15:15-15:20	15:20-15:25
	48	11	26	65	12	8
	15:25-15:30	15:30-15:35	15:35-15:40	15:40-15:45	15:45-15:50	15:50-15:55
	37	18	22	17	30	15
	15:55-16:00	16:00-16:05	16:05-16:10	16:10-16:15	16:15-16:20	16:20-16:25
	21	46	47	63	78	79
16:25-16:30						
	72					

IFMIA 2021 PROGRAM

Tuesday 26TH January 2021 09:00 – 16:40 TAIPEI

Online

Morning Session

09:00~10:30	<u>Image Evaluation</u> <u>Section Chair: Yoshitaka Masutani and Bo Kyung Cha</u>					
	09:00-09:15		09:15-09:30		09:30-09:45	
	55		51		60	
	09:45-10:00		10:00-10:15		10:15-10:30	
	10		33		86	
10:45~11:00	Break					
11:00~12:00	<u>Radiomics in Medical Image</u> <u>Section Chair: Kensaku Mori and Chung-Ming Lo</u>					
	11:00-11:15		11:15-11:30	11:30-11:45	11:45-12:00	
	69		5	36	66	
12:00~13:00	Lunch Break					
Afternoon Session						
13:00~14:30	<u>Deep Learning in Computer Aided System II</u> <u>Section Chair: Kwanggi Kim and Wei-Chih Shen</u>					
	13:00-13:15		13:15-13:30		13:30-13:45	
	24		38		54	
	13:45-14:00		14:00-14:15		14:15-14:30	
	20		59		71	
14:30~14:50	Break					
14:50~16:20	<u>Poster Session II</u> <u>Section Chair: Feng Lin, Chih-Chung Huang, and Kwanggi Kim</u>					
	14:50-14:55	14:55-15:00	15:00-15:05	15:05-15:10	15:10-15:15	15:15-15:20
	83	16	81	57	3	84
	15:20-15:25	15:25-15:30	15:30-15:35	15:35-15:40	15:40-15:45	15:45-15:50
	13	6	40	4	91	61
15:50-15:55	15:55-16:00	16:00-16:05	16:05-16:10	16:10-16:15	16:15-16:20	
	80	49	73	9	27	85
16:20~16:40	Best Paper Awards, Conference Closing and Announcement for IFMIA 2023 Ruey-Feng Chang and Yoshitaka Masutani					

Best Oral Paper Competition

No.	Title & Authors
7	A Dense 3D Organ Modeling from a Laparoscopic Video <i>Ryosuke Maekawa, Hidehiko Shishido, Yoshinari Kameda and Itaru Kitahara</i>
68	Anatomically Robust Organ Segmentation on Chest Radiograph: Novel CNN approach using Synthetic X-ray Image reconstructed from MDCT Scan <i>Sihwan Kim and Jong Hyo Kim</i>
28	High-Frequency Ultrasound Elastography for Characterizing the Elastic Properties of Keloid <i>Wei-Yu Tsai, Pei-Yu Chen and Chih-Chung Huang</i>
14	A preliminary study on fully-automated subjective evaluation of low contrast resolution using convolutional neural networks <i>Yujiro Doi, Ayumi Yamada, Ryota Matsumoto, Masatoshi Kobayashi and Atsushi Teramoto</i>
76	Comparison on the deep learning performance of a field of view variable color images of uterine cervix <i>Ye Rang Park, Young Jae Kim and Kwang Gi Kim</i>
35	Automatic HEp-2 Cell Segmentation in Indirect Immunofluorescence Images Using Deep Learning <i>Guan-Ting Jiang, Yi-Da Wu, Tsu-Yi Hsieh and Yu-Len Huang</i>
25	An Iterative Reconstruction Method for CT Metal Artifact Reduction Using L1 Norm Data Fidelity and Nonlocal TV Regularization <i>Kazuki Chigita, Jian Dong and Hiroyuki Kudo</i>
87	Deep 3D Attention U-Net based Whole Liver Segmentation for Anatomical Volume Analysis in abdomen CT images <i>Jingyo Jeong, Youngjae Kim, Wonsuk Lee and Kwanggi Kim</i>
58	Laryngoscopy Objects Indicators Analysis Based on Mask R-CNN <i>Chiun-Li Chin, Yu-Chieh Liu, Yong-Long Lin, Ting-Ya Chang and Jyun-Ruei Lee</i>
45	Novel recognition approach of TKI-sensitizing EGFR mutations in non-small cell lung cancer patients using topologically invariant Betti numbers <i>Kenta Ninomiya, Hidetaka Arimura, Wai Yee Chan, Kentaro Tanaka, Shinichi Mizuno, Nadia Fareeda Muhammad Gowdh, Nur Adura Yaakup, Chong-Kin Liam, Chee-Shee Chai and Kwan Hoong Ng</i>

Best Poster Paper Competition

No.	Title & Authors
42	Detection of cerebral aneurysms on MR angiography using generated features by unsupervised deep learning for multiple 2.5-dimensional images <i>Kazuyuki Ushifusa, Mitsutaka Nemoto, Yuichi Kimura, Takashi Nagaoka, Takahiro Yamada and Naoto Hayashi</i>
34	Utilize Simulated Bi-planar X-ray Images to Reconstruct the 3D Spine Image by Generative Adversarial Network <i>Ching-Juei Yang, Cheng-Li Lin, Chien-Kuo Wang, Jing-Yao Wang, Chih-Chia Chen, Fong-Chin Su, Yin-Ju Lee, Chun-Chung Lui and Yu-Hua Fang</i>
62	Automatic classification of renal tumor subtypes on multi-phase contrast enhanced CT images <i>Hide Nobu Suzuki, Shota Nakano, Yoshiki Kawata, Noboru Niki and Atsushi Ikeda</i>
41	Radiomics approach for hematoma expansion prediction of spontaneous intracranial haemorrhage <i>Te-Chang Wu, Yan-Lin Liu, Yang Zhang, Jeon-Hor Chen and Min-Ying Su</i>
67	Generalizability of challenge-winner deep learning model: A case in cerebral hemorrhage type classification <i>Changwon Kim, Young Hen Lee, Chulkyun Ahn, Changyong Heo and Jong Hyo Kim</i>
75	Recognition of dentition in dental panoramic radiographs using SSD with binary dental chart <i>Takumi Morishita, Chisako Muramatsu, Xiangrong Zhou, Ryo Takahashi, Tatsuro Hayashi, Wataru Nishiyama, Takeshi Hara, Yoshiko Arij, Eiichiro Arij, Akitoshi Katsumata and Hiroshi Fujita</i>
43	Super-Resolution Reconstruction Using Channel Splitting Edge-guided Residual Network for Wideband Magnetic Resonance Imaging <i>Hsu Feng-Yu and Chen Jyh-Horng</i>
70	Could Deep Learning Denoising Algorithm Normalize the Dose-induced Texture Feature Variability? <i>Chulkyun Ahn and Jong Hyo Kim</i>
77	Analysis of multiplanar fusion based on uncertainty estimation in automatic segmentation of abdominal organs in 3D CT image using 2D Bayesian U-Net <i>Yuto Masaki, Yoshito Otake, Mazen Soufi, Masatoshi Hori, Hiromitsu Onishi, Noriyuki Tomiyama and Yoshinobu Sato</i>
50	Preliminary testing of automatic breast cancer classification system by patch-based convolutional neural network for mammography to diverse racial datasets <i>Wei-Tse Yang, Yu-Hua Fang, Kuo-Ting Lee, Li-Li Cheng, Chien-Kuo Wang, Yeh Lee-Ren, Fong-Chin Su and Ching-Juei Yang</i>

Deep Learning in Computer Aided System I

No.	Title & Authors
23	Image Reconstruction Framework for Helical Cone-Beam CT by Combining Compressed Sensing and Deep Learning <i>Kentaro Kawamata, Subaru Kazuo, Hotaka Takizawa and Hiroyuki Kudo</i>
29	Using 3-D Octave-ResNeXt Computer-aided Diagnosis System for Tumor Classification in Automated Breast Ultrasound <i>Yao-Sian Huang, Yi-Tzun Lai, Huiling Xiang, Xi Lin and Ruey-Feng Chang</i>
39	Instance Segmentation of Early Gastric Cancer in Endoscopic Images Using Mask R-CNN <i>Atsushi Teramoto, Tomoyuki Shibata, Ayana Sugiura, Hyuga Yamada, Naoki Ohmiya, Kuniaki Saito and Hiroshi Fujita</i>
52	Automatic Adrenal Gland Segmentation on Abdominal CT Images Using Deep Learning <i>Po-Ting Chen, Pochuan Wang, Tinghui Wu, Dawei Chang, Holger R. Roth, Kao-Lang Liu, Wei-Chih Lao and Weichung Wang</i>
64	Lung region extraction from CT images of diffuse lung disease cases by Deep Learning <i>Daisuke Kurata, Shoji Kido and Yasushi Hirano</i>
92	Automated lung tumor segmentation based on Capsule Network considering relative spatial relationship between lung tumor and surrounding structures in Chest CT images <i>Jumin Lee, Julip Jung and Helen Hong</i>

Poster Session I

No.	Title & Authors
48	A New Convolutional Neural Network Model for MR Image Background Noise Removal <i>Chen Po-Ting and Chen Jyh-Horng</i>
11	A preliminary study on the sketch-based tumor CT image synthesis using pix2pix <i>Ryo Toda, Atsushi Teramoto, Masakazu Tsujimoto, Hiroshi Toyama, Masashi Kondo, Kazuyoshi Imaizumi, Kuniaki Saito and Hiroshi Fujita</i>
26	Open data validation of a classification method of eye movement by a convolutional neural network <i>Satoshi Kamikawa, Tetsuo Sato, Takayoshi Terashita and Shigehiko Kanaya</i>
65	Classification of lung cancer into adenocarcinoma and squamous cell carcinoma, and visualization of the grounds of classification <i>Erena Ise, Shoji Kido and Yasushi Hirano</i>
12	Automated glioma grading pipeline in post contrast MR images combining cloud source 3D convolutional neural network <i>Hiroto Yamashiro, Atsushi Teramoto, Kuniaki Saito and Hiroshi Fujita</i>
8	Automatic Reporting System for 2-D Breast Ultrasound Images Using Convolutional Neural Networks <i>Yan-Wei Lee, Li Lin and Ruey-Feng Chang</i>
37	Predicting 1-Year Mortality of Acute Kidney Injury: A Risk Model Using Electronic Health Records <i>Chao-Jung Huang, Brian Wu, Xiaodong Li, Yongxia Han, Yaqi Zhang, Shiyong Hao and Xuefeng B. Ling</i>
18	Generating Hard Exudates Image by Generative Adversarial Networks to Increase the Convolutional Neural Network Performance <i>Maho Fujita, Yuji Hatanaka, Wataru Sunayama, Chisako Muramatsu and Hiroshi Fujita</i>
22	Development of a Respiratory Sounds Labeling Software for Training a Deep Learning-Based Respiratory Sounds Analysis Model <i>Fu-Shun Hsu, Chao-Jung Huang, Chen-Yi Kuo, Shang-Ran Huang, Yuan-Ren Cheng, Jia-Horng Wang, Yi-Lin Wu, Tzu-Ling Tzeng and Feipei Lai</i>
17	Relationship between Number of Annotations and Accuracy in Segmentation of the Erector Spinae Muscle Using Bayesian U-Net in Torso CT Images <i>Yuichi Wakamatsu, Naoki Kamiya, Xiangrong Zhou, Takeshi Hara and Hiroshi Fujita</i>

30	Deep-Learning Segmentation for Evaluating of Choroidal Thickness on Optical Coherence Tomography <i>Siu-Lun Tse, Chia-Jen Chang, Wei-Ping Hsia and Yu-Len Huang</i>
15	Classification and Segmentation of Idiopathic Interstitial Pneumonia Using 3D U-Net <i>Nonoko Takeuchi, Atsushi Teramoto, Kazuyoshi Imaizumi, Kuniaki Saito and Hiroshi Fujita</i>
21	Elevational Motion Estimation for 3D Ultrasound with Machine Learning and a Speckle Generating Gel Pad <i>Ching-Yen Lee, U-Wai Lok and Pai-Chi Li</i>
46	A feasibility study of metal artifacts reduction using weighted iterative reconstruction algorithm for frequency split metal artifact reduction <i>Sungho Yun, Donghyeon Lee, Rizza Pua and Seungryong Cho</i>
47	A useful condition for adjustment of field of view in hip arthroscopy: On area fraction of the femoral head in images <i>Shinnosuke Kawakami, Norio Fukuda, Takashi Nishii, Yoshito Otake and Yoshinobu Sato</i>
63	Spatial and Temporal Resolution Enhancement of Human Brain Imaging by Single-frequency Excitation Wideband MRI (SE-WMRI) technique <i>Tzu-Yi Wang, Jyh-Horng Chen, Ming-Jang Chiu, Tzi-Dar Chiueh and Po-Wei Cheng</i>
78	Construction of a patient-derived 3D anthropomorphic thorax phantom with lung diseases <i>Ahyeong Lee, Sihwan Kim, Chang Yong Heo and Jong Hyo Kim</i>
79	Algorithm for removing shading artifacts around dental prosthesis in dental panoramic image <i>Taejin Kwon, Da-in Choi, Jaehong Hwang, Jaesung Lee, Jihwan Lim, Inje Lee and Seungryong Cho</i>
72	Stain Transfer for Automatic Annotation of Malignant Lymphoma Regions in H&E Stained Whole Slide Histopathology Images <i>Ryoichi Koga, Noriaki Hashimoto, Tatsuya Yokota, Masato Nakaguro, Kei Kohno, Sigeo Nakamura, Ichiro Takeuchi and Hidekata Hontani</i>

Image Evaluation

No.	Title & Authors
55	An accurate bladder volume measurement algorithm via multi-dimensional image and spatial-information using point-of-care ultrasound only <i>Ping Xuan Chen and Chung Ping Chen</i>
51	Vascular roadmap generation by registration and fusion of multiple X-ray angiograms <i>Morio Kawabe, Takashi Ohnishi, Hideyuki Kato, Yoshihiko Ooka and Hideaki Haneishi</i>
60	Distinct cerebral blood flow and cognitive association in subcortical ischemic vascular disease and Alzheimer s disease <i>Min-Chien Tu, Hsiao-Wen Chung and Wen-Chau Wu</i>
10	A Statistical Intensity Model of Blood Vessels in a Thoracic CT Volume Using AE-Glow <i>Ohzora Masuko, Atsushi Saito, Junji Ueno, Masafumi Harada and Akinobu Shimizu</i>
33	Blurriness assessment on mammogram for blur discrimination <i>Yi-Chong Zeng</i>
86	Real-time Volume Exploration Technique for Holographic Display <i>Jaehyun Jang, Joowon Lim and Jinah Park</i>

Radiomics in Medical Image

No.	Title & Authors
69	Magnetic Resonance Imaging Radiomics for Prediction of Tumor Response in Locally Advanced Rectal Cancer after Preoperative Chemoradiation <i>Yen Chou, Jeng-Kae Jiang and Ling-Wei Wang</i>
5	Semantic Feature Representation and Interpretation with Context-Free Grammar and Push-Down Automaton <i>Feng Lin, Ying Xu, Aurelio Jethro Prohara and Hock Soon Seah</i>
36	Online System for Staging Hepatic Fibrosis <i>Xuejun Zhang, Chan Liang, Huan Lao, Binmei Liang, Li Lin and Yinghua Sun</i>
66	Unpaired Medical Image Translation between Portal-venous Phase and Non-contrast CT Volumes for Multi-organ Segmentation <i>Chen Shen, Yuichiro Hayashi, Masahiro Oda, Kazunari Misawa and Kensaku Mori</i>

Deep Learning in Computer Aided System II

No.	Title & Authors
24	Combining Compressed Sensing and Deep Learning Using Multi-Channel CNN for Image Reconstruction in Low-Dose and Sparse-View CT <i>Subaru Kazuo, Kentaro Kawamata and Hiroyuki Kudo</i>
38	Computer-aided Analysis System for Bone Age in X-ray Image using Deep Neural Network <i>Wen-Chi Kuo, Wen-Tien Hsiao and Chii-Jen Chen</i>
54	Tumor Detection from Breast Ultrasound Images Using Mammary Gland Attentive U-Net <i>Kaiwen Yang, Hidenori Sakanashi, Hirokazu Nosato, Jiaying Ye, Aiga Suzuki and Ayumi Izumori</i>
20	Deep Learning-based Humerus Segmentation and Its Application to Bone Density Estimation from Premature Infant X-ray Images <i>Yung-Chun Liu, Yung-Chieh Lin, Yi-Shan Tsai, Pei-Yin Tsai, Chuew-Chuen Chuang and Yung-Nien Sun</i>
59	AI-segmentation of gross tumor volumes on 3D planning CT images for lung cancer stereotactic ablative radiotherapy based on dense V-networks <i>Yunhao Cui, Hidetaka Arimura, Risa Nakano, Tadamasa Yoshitake, Yoshiyuki Shioyama and Hidetake Yabuuchi</i>
71	Detection of DLBCL Regions in H&E Stained Whole Slide Pathology Images using SC-CNN <i>Ryoichi Koga, Noriaki Hashimoto, Tatsuya Yokota, Masato Nakaguro, Kei Kohno, Sigeo Nakamura, Ichiro Takeuchi and Hidekata Hontani</i>

Poster Session II

No.	Title & Authors
83	Probe Localization from Ultrasound Image Sequences Using Deep Learning for Volume Reconstruction <i>Kanta Miura, Koichi Ito, Takafumi Aoki, Jun Ohmiya and Satoshi Kondo</i>
16	Development of Automated Classification Scheme for Myocardial Infarction Using CNN-LSTM model in Echocardiography <i>Ryosuke Muraki, Ryusei Kimura, Kanon Yamazaki, Keiko Sugimoto, Kunihiro Sugimoto, Akira Yamada, Eiichi Watanabe, Kuniaki Saito, Hiroshi Fujita and Atsushi Teramoto</i>
81	Performance Improvement of Alzheimer's Disease Classification Inspired by CNN in Brain Age Estimation <i>Daiki Endo, Koichi Ito and Takafumi Aoki</i>
57	Multimodel deep learning approach for malignant calcification clusters classification and detection in mammogram <i>Chiun-Li Chin, Ming-Chen Hsu, Chia-Shin Wei, Ru-Jiun Tseng and Ting Chen</i>
3	Automated Classification of Ischemic Stroke in Carotid Color Doppler using Deep Learning <i>Peng-Hsiang Hung, Rui-Cian Weng and Chung-Ming Lo</i>
84	Prediction of Anterior Cruciate Ligament Injury from MRI Using Deep Learning <i>Nguyen Khanh Hung Truong, Quang Hien Kha, Ngoc Hoang Le, Van Tuan Le, Ho Thanh Lam Luu and Nguyen Quoc Khanh Le</i>
13	Automated Extraction of Cerebral Infarction Lesion in Head MR Images: Data Augmentation Using Pseudo Patients Generated by CycleGAN <i>Mizuki Yoshida, Ayumi Yamada, Kohei Kudo, Hiroshi Fujita, Kuniaki Saito and Atsushi Teramoto</i>
6	Movability assessment on physiotherapy for shoulder peri-arthritis via fine-grained 3D ResNet deep learning <i>Feng Lin, Raymond Rui Ming Tan, Chengxuan Feng and Hock Soon Seah</i>
40	Developing a Medical Artificial Intelligence Course for High School Students <i>Chao-Jung Huang, Tinghui Wu, Jui-Ting Lu, Beatrice Lin, Dawei Chang, Pochuan Wang, Mei-Chi Wang, Peijung Lee and Weichung Wang</i>
4	U-Net based extraction of centerline segments of cervical spines in videofluorography during swallowing <i>Ye Zhu, Ayano Fujinaka, Hotaka Takizawa and Hiroyuki Kudo</i>

91	Pancreas Segmentation based on Deep Convolutional Neural Network considering Local Context and Spatial Information in Abdominal CT Images <i>Hyeon Dham Yoon, Hyeonjin Kim and Helen Hong</i>
61	The Objective Evaluation Metrics of 2D Empirical Mode Decomposition for Mammogram Analysis <i>Yi-Chen Wu, Heng-Shing Yang, Pau-Choo Chung and Kuo-Sheng Cheng</i>
80	Reproducibility of Quantitative Lung Analysis Software <i>Jemyoung Lee, Sihwan Kim, Changyong Heo and Jong Hyo Kim</i>
49	Synthetic Q-Space Learning with Mixture Distribution Noise for Robust DKI Parameter Inference <i>Yoshitaka Masutani, Takahito Fujiwara and Koh Sasaki</i>
73	Dynamic PET image denoising using double deep image prior <i>Cheng-Hsun Yang and Hsuan-Ming Huang</i>
9	Advanced Wiener Filter for Helical Windmill Artifact Reduction <i>Hyoyi Kim, Sanghoon Cho and Seungryong Cho</i>
27	Application of MR Radiomics for Prediction of Recurrence in Meningiomas <i>Ching-Chung Ko, Yang Zhang and Jeon-Hor Chen</i>
85	Color Laparoscopic Image Region Segmentation after Contrast Enhancement Including SRCNN by Image Regions <i>Norifumi Kawabata and Toshiya Nakaguchi</i>
