뇌와 인공지능 심포지엄 프로그램

일시: 2014년 2월 19일(수요일) - 2월 20일(목요일)
장소: 강원도 하이원리조트 강원랜드호텔 그랜드볼룸1
주최: 한국뇌공학회, 한국정보과학회 인공지능소사이어티, 대한전자공학회 컴퓨터소사이어티
주관: KAIST 뇌과학연구센터, 경북대학교 전자공학부 및 전자기술연구소, 고려대학교 BK21
뇌공학연구사업단, IEEE Computational Intelligence Society(CIS) Seoul Chapter
후원: 신기술융합형성장동력사업 6세부, IEEE Systems, Man and Cybernetics(SMC) Society Korea Chapter

2014년 02월 19일 (수요일)

13:00-13:10 Openning
   Prof. Soo-Young Lee, KAIST (이수영 교수, 카이스트)

Oral Session
13:10-14:10 Keynote Speech
   Neuro-Rehabilitation Robot Technology Based on Brain and Cognitive Engineering
   Prof. Seong-Whan Lee, Korea University (이성환 교수, 고려대학교)

14:10-15:10 Community Detection in Signed Networks
   Prof. Jinwoo Shin, KAIST (신진우 교수, 카이스트)

15:10-15:30 Coffee Break

15:30-16:10 High-Dimensional Data Analysis via Hypergraph Learning: from Genome to Brain Networks
   Dr. Soo-Jin Kim, Seoul National University (김수진 박사, 서울대학교)

16:10-18:10 Panel Discussion
   사회: 이성환 교수 (고려대학교)
   패널: 김승환 교수 (POSTECH), 남기준 교수 (고려대학교),
         이경민 교수 (서울대학교), 이민호 교수 (경북대학교),
         장병탁 교수 (서울대학교)

18:10-20:00 Banquet
Poster Session
09:00-11:00

Oral Session
11:00-11:40  Tongue–Machine Interface with Glossokinetic Potentials
Dr. Yun Jun Nam, Pohang University of Science and Technology
(남윤준 박사, 포항공과대학교)

11:40-12:20  Motor Sequence and the Basal Ganglia
Dr. Jeongwoo Sohn, Medical Device Development Center
(손정우 박사, 첨단의료기기개발지원센터)

12:20-13:30 Lunch

13:30-14:10  NMF and Audio Source Separation
Mr. Keunwoo Choi, ETRI (최근우 연구원, 한국전자통신연구원)

14:10-14:50  Understanding Information Flow between Sensors
Dr. Heeyoul Choi, Samsung Advanced Institute of Technology
(최희열 박사, 삼성종합기술원)

14:50-15:30  GinieTalk, Automatic Speech Translation Service for Language–Barrier–Free World
Mr. Seung Hi Kim, ETRI (김승희 선임연구원, 한국전자통신연구원)
PS-01 Quality Perception of Coding Artifacts and Packet Loss in Networked Video Communications  
Soo-Jin Kim, Chan-Byoung Chae, and Jong-Seok Lee, Yonsei Univ.

PS-02 Gaze Pattern Analysis for Video Contents with Different Frame Rates  
Manri Cheon, Jong-Seok Lee, Yonsei Univ.

PS-03 Crowdsourcing-Based Approach for Music Recommendation  
Jun-Ho Choi, Jong-Seok Lee, Yonsei Univ.

PS-04 Analysis of Neural Mechanisms for Surface Materials  
Tae-Eui Kam, Seong-Whan Lee, Korea Univ.

PS-05 Effect of Centroid Estimation on Calculation Efficiency and Equivalent Noise  
Hongfan Shen, Damien Mannion, Daniel Kersten, Seong-Whan Lee, Korea Univ.

PS-06 Improving the Performance of Asynchronous Brain–computer Interface using Multi-modal Neuroimaging  
Min-ho Lee, Siamac Fazli, Ian Mehnert, Seong-Whan Lee, Korea Univ.

PS-07 Top–down Attention Algorithm for Phoneme Classification with a HMM Classifier  
Ho Gyeong Kim, Soo-Young Lee, KAIST

PS-08 Brain Signals as Biometric Signatures  
Eun-Soo Jung, Soo-Young Lee, KAIST

PS-09 Low Sensitive Auto-encoders  
Ji Hyeon Roh, Hwaran Lee, Soo-young Lee, KAIST

PS-10 Recognition of Purchasing Intention from Speech Based on Discriminant Feature Extraction  
Bo-Kyeong Kim, Geon-Min Kim, Soo-Young Lee, KAIST

PS-11 Multi Frequency Resolution Method for Solving Scaling Problem in Frequency Domain Blind Source Separation  
Dong-Gun Lee, Thanh Luong, and Soo-Young Lee, KAIST

PS-12 TMS-induced EEG Artifacts Removal Methods Based on Cross-correlation Coefficients of ICA Components  
Unjoo Lee, Sung-Jun Kang, Hyun Jung Ahn, Woo-Kyung Yoo, Hallym Univ.

PS-13 Cognitive Human Robot Interaction Using Hierarchical MTRNN  
Gibeom Park, Jungsik Hwang, Jun Tani, KAIST

PS-14 Biologically Motivated Visual Selective Attention Model for Efficient Visual Target Localization  
Jae-Ho Oh, Soo-Bin Yoo, Changbum Kwon, Sang-Woo Ban, Dongguk Univ.

PS-15 Anomaly and Visual Metaphors: An ERP Study  
Amitash Ojha, Swathi Kavuri, Ukeob Park, Bipin Indurkhya, Minho Lee, Kyungpook National Univ.

PS-16 EEG Coherence Analysis for Solving Problems: Language, Spatial Area  
Jun-Su Kang, Minho Lee, Kyungpook National Univ.

PS-17 Selective Attention Model Based on Audio–visual Integration  
Bumhwi Kim, Minook Kim, Sang-Woo Ban, Hyung-Min Park, Minho Lee, Kyungpook National Univ.
Incremental Face Recognition Using Rehearsal and Recall Processes
Sangwook Kim, Minho Lee, Kyungpook National Univ.

Real World Environmental Laser Spot Detecting Preprocessing and User Gesture Pattern Recognition Technology
Jonghong Kim, Bumhwi Kim, and Minho Lee, Kyungpook National Univ.

Lane Detection Using Convolutional Based Deep Learning
Jihun Kim, Minho Lee, Kyungpook National Univ.

A Probability Latent Component Analysis for Structure Borne Noise
Tae-woong Kim, Jun-seok Oh, Seong-yong Kim, Minho Lee, Kyungpook National Univ.

Modeling Gestalt Principles in Human Visual Attention Selection for Object Recognition
Jixiang Shen, Amitash Ojha, Minho Lee, Kyungpook National Univ.

Human Motion based Intent Understanding Using a Hierarchical Dynamic Neural Model
Zhibin Yu, Sangwook Kim and Minho Lee, Kyungpook National Univ.

Feature Analysis of Pupillary Response for Assessing Multiple Intelligences
Giyoung Lee, Amitash Ojha, Minho Lee, Kyungpook National Univ.

Human Implicit Intent Recognition System Based on User-specific Eye Movement
Young-Min Jang, Rammohan Mallipeddi, and Minho Lee, Kyungpook National Univ.

Driver’s Anomaly State Monitoring System via One-class Support Vector Machine
Hyunrae Jo, Minho Lee, Kyungpook National Univ.

Dictionary Reduction for Based Face Recognition Based on Compressive Sensing
Yonghwa Choi, Minho Lee, Kyungpook National Univ.

Evaluation of Non-neuronal Component Variability in the Blood-oxygenation-level-dependent fMRI Data: Preliminary Results
Dong-Youl Kim, Jong-Hwan Lee, Korea Univ.

A Preliminary Evidence on Neural Basis of Collaboration and Competition from fMRI
Eun Kyung Jung, Jun Zhang, Soo-Young Lee, Jong-Hwan Lee, Korea Univ.

A Feasibility of Principal Component Analysis to Remove Residual Artifacts in EEG Data Acquired with fMRI Data
Hyun-Chul Kim, Jong-Hwan Lee, Korea Univ.

Functional Networks on Binaural and Monaural Speech Hearing: A Preliminary Evidence from fMRI Study
Hojung Kang, Jong-Hwan Lee, Korea Univ.

Human Visual Attention Based Saliency Model for Prominent Regions Detection
Jong-Bae Kim, Seoul Digital Univ.
신기술융합형 성장동력사업 6세부 동계 워크숍

- 일시: 2014년 2월 20일(목요일) ~ 2월 21일(금요일)
- 장소: 강원도 하이원리조트 강원랜드호텔 그랜드볼룸1
- 주최: 신기술융합형 성장동력사업 6세부, 경북대학교 디지털기술연구소

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<td>개회사</td>
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<td>16:10~17:40</td>
<td>Real-time Extraction of Speech Signal Arriving from Specified Direction Using 2x2 Semi-adaptive Network</td>
<td>박형민 교수 (강민욱), 서강대학교</td>
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<td>17:40~18:10</td>
<td>A Just-In-Time Utterance Keyword Extraction for Augmented Recognition</td>
<td>박성배 교수 (노윤석), 경북대학교</td>
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<td>18:10~19:00</td>
<td>Welcoming Reception</td>
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<td>09:00~09:30</td>
<td>Visual Selective Attention Model for Pedestrian Traffic Sign Detection (Optimization &amp; Integration)</td>
<td>반상우 교수 (반상우), 동국대학교</td>
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<td>09:30~10:00</td>
<td>Improving Face Recognition Algorithms Using Contractive Autoencoders with Part-based Models</td>
<td>최승진 교수 (강윤섭), POSTECH</td>
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<td>10:00~10:30</td>
<td>Movement Recognition Using Dynamic Neural Network</td>
<td>준타니 교수 (박기범), KAIST</td>
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<td>11:00~11:30</td>
<td>Effective Methods for False Positives Reduction in Head-Shoulder Detection</td>
<td>박래정 교수 (박래정), 강릉원주대학교</td>
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<td>11:30~12:00</td>
<td>변형에 강건한 얼굴 검출 및 인식</td>
<td>박혜영 교수 (박혜영), 경북대학교</td>
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12:00~13:30 중식

13:30~14:00 도상 텍스트의 스토리텔링적 요소를 활용한 Text-Image 정보의 변환 및 융합
김정훈 교수 (김민서), KAIST

14:00~14:30 시청각 융합 정보기반 인지향상 시스템
이민호 교수 (이민호), 경북대학교

14:30~15:00 토론 및 도의