

SEONG-WHAN LEE

Hyundai-Kia Motor Chair Professor, IEEE Fellow

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Date of Birth: June 2, 1962
Citizenship: Korean

Brief Biography

Seong-Whan Lee is the Hyundai-Kia Motor Chair Professor at Korea University, where he is the head of the Department of Brain and Cognitive Engineering and the director of the Institute for Brain and Cognitive Engineering.

He received the B.S. degree in computer science and statistics from Seoul National University, Seoul, Korea, in 1984, and the M.S. and Ph.D. degrees in computer science from Korea Advanced Institute of Science and Technology in 1986 and 1989, respectively.

From February 1989 to February 1995, he was an Assistant Professor in the Department of Computer Science at Chungbuk National University, Cheongju, Korea. In March 1995, he joined the faculty of the Department of Computer Science and Engineering at Korea University, Seoul, Korea, and now he is the tenured full professor. In 2001, he stayed at the Department of Brain and Cognitive Sciences, MIT as a visiting professor.

A Fellow of the IEEE, IAPR, and Korean Academy of Science and Technology, he has served several professional societies as chairman or governing board member. He was the founding Co-Editor-in-Chief of the International Journal of Document Analysis and Recognition and has been an Associate Editor of several international journals: Pattern Recognition, ACM Trans. on Applied Perception, IEEE Trans. on Affective Computing, Image and Vision Computing, International Journal of Pattern Recognition and Artificial Intelligence, and International Journal of Image and Graphics.

His research interests include pattern recognition, computer vision, and brain engineering. He has more than 250 publications in international journals and conference proceedings, and authored 10 books.

Education

1989 Ph.D. in Computer Science, Korea Advanced Institute of Science and Technology
1986 M.S. in Computer Science, Korea Advanced Institute of Science and Technology
1984 B.S. in Computer Science and Statistics, Seoul National University

Employment

2015 – 2016 Visiting Professor, Max-Planck Institute for Biological Cybernetics
2013 - Director, BK21 Plus Global Leader Development Division in Brain Engineering
2011 - 2015 Director, Brain Imaging Center, Korea University
2010 - Fellow, IEEE
2009 - Fellow, Korean Academy of Science and Technology

2009 -
Hyundai-Kia Motor Chair Professor, Korea University

2009 -
Chairman, Department of Brain and Cognitive Engineering, Korea University

2009 - 2011
Chairman, Interdisciplinary Major in Brain and Cognitive Sciences, Korea University

2008 - 2013
Director, Institute for Brain and Cognitive Engineering, Korea University

2008 - 2013
Director, WCU Center on Brain and Cognitive Engineering

2006 - 2008
Deputy Dean, Graduate School of Computer and Information Technology, Korea University

2003 - 2010
Chairman, Interdisciplinary Graduate Program in Bioinformatics, Korea University

2001 -
Professor, Division of Computer and Communications Engineering, Korea University

2001 - 2002
Visiting Professor, Department of Brain and Cognitive Sciences, MIT

1999 - 2001
Chairman, Department of Computer Science and Engineering, Korea University

1998 -
Fellow, International Association for Pattern Recognition

1997 - 2008
Director, Center for Artificial Vision Research, Korea University

1996 - 1999
Chairman, Interdisciplinary Graduate Program in Visual Information Processing, Korea University

1995 - 2001
Associate Professor, Department of Computer Science and Engineering, Korea University

1989 - 1995
Assistant Professor, Department of Computer Science, Chungbuk National University

1989 - 1990
Post-Doctoral Fellow, Center for Pattern Recognition and Machine Intelligence, Concordia University

1987 - 1987
Visiting Researcher, Pattern Recognition Group, Delft University of Technology

Award and Service

2015-2017
President, Korean Society for Artificial Intelligence

2013
Outstanding Contribution Award, IEEE Systems, Man, and Cybernetics Society

2013
Kahun Academic Excellence Award, Korean Institute of Information Scientists and Engineers

2013-
Chair, TC on Brain-Machine Interface Systems, IEEE SMC Society

2013-2015
Vice President, Artificial Intelligence Society

2013-2014
Vice President, Korea Institute of Information Scientists and Engineers

2013
Outstanding Contribution Award Ministry of Education, Science and Technology

2013-2014
President, Korean Society for Cognitive Science

2012-
Vice President, Korean Society for Brain Engineering

2012
Scientist of the Month Award, Ministry of Education, Science and Technology

2012-2013
Vice President, IEEE Systems, Man and Cybernetics Society

2011
Lotfi Zadeh Best Paper Award, 2011 IEEE International Conference on Machine Learning and Cybernetics

2012-
President-Elect, Korean Society for Cognitive Science

2011-2012
Vice President, Korean Society for Cognitive Science

2010-2012
Distinguished Lecturer, IEEE Systems, Man, and Cybernetics Society

2010-2011
Fellows Evaluation Committee, IEEE Systems, Man, and Cybernetics Society

2010-2011
Fellows Evaluation Committee, IEEE Computer Society

2010-2011
IEEE Systems, Man, and Cybernetics Society Fellows Evaluation Committee

2010-
Fellow, IEEE

2009
Fellow, Korean Academy of Science and Technology

2009
Outstanding Contribution Award, 2009 IEEE International Conference on Machine Learning and Cybernetics

2009
Outstanding Research Award, College of Information and Communication, Korea University

2009-
Hyundai-Kia Motor Chair Professor, Korea University

2008
Outstanding Contribution Award, 2008 IEEE International Conference on Machine Learning and Cybernetics

2008
Distinguished Publication Contribution Award, Korea Information Science Society

2008-2010
Board of Governors, IEEE Systems, Man, and Cybernetics Society

2007-
Chairman, IEEE Systems, Man, and Cybernetics Society Korea Chapter

2003-
Associate Member, Korean Academy of Science and Technology

2003
Outstanding Contribution Award, Korea Information Science Society

2002
Best Paper Presentation Award, Korea Information Science Society

2001
Yonam Foreign Research Scholar Award, LG Yonam Foundation

2000-2002
Chairman, SIG on Computer Vision and Pattern Recognition of Korea Information Science Society

2000
Outstanding Achievement Award, 2000 International Conference on Neural Information Processing

2000
25th Annual Pattern Recognition Society Award, Pattern Recognition Society

2000
Outstanding Contribution Award, Korea Information Science Society

1998-2000
Chairman, TC-11 of International Association for Pattern Recognition

1998-
Governing Board Member, Korean Brain Society

1998-
Fellow, International Association for Pattern Recognition

1997-1999
Chairman, SIG on Neuro-Computing of Korea Information Science Society

1997
Creative Research Initiatives Award, Korean Ministry of Science and Technology

1996-
Governing Board Member, International Association for Pattern Recognition

1996-
Governing Board Member, Oriental Languages Computing Society

1996-2000
Governing Board Member, SIG on HCI of Korea Information Science Society

1996
Senior Member, IEEE Computer Society

1996
Outstanding Scholar Award, Korea Information Science Society

1995-1997
Vice-Chair, SIG on Neuro-Computing of Korea Information Science Society

1995-1997
Vice-Chair, SIG on Computer Vision and Pattern Recognition of Korea Information Science Society

1994
Best Research Faculty Award, Chungbuk National University

1993
Outstanding Young Researcher Award, 2nd International Conference on Document Analysis and Recognition

1992-1998
Governing Board Member, SIG on Korean Language Computing of Korea Information Science Society

1991-2000
Governing Board Member, SIG on Artificial Intelligence of Korea Information Science Society

1986
Graduate Student Best Paper Award, Korea Information Science Society

Editorial Appointment

2010-
Advisory Editorial Board Member, Paladyn: Journal of Behavioral Robotics

2010-
Area Editor, Pattern Recognition Journal

2010-
Associate Editor, IEEE Trans. on Affective Computing

2010-
Associate Editor, ACM Trans. on Applied Perception

2009-
Associate Editor, Image and Vision Computing Journal

2006-2008
Editor-in-Chief, Journal of Korea Information Science Society: Software and Applications

2002-2009
Associate Editor, International Journal on Document Analysis and Recognition

2000-
Associate Editor, International Journal of Image and Graphics

1999-2001
Editor-in-Chief, Journal of Korean Cognitive Science Society

1998-2002
Co-Editor-in-Chief, International Journal on Document Analysis and Recognition

1997-2010
Associate Editor, Pattern Recognition Journal

1996-
Associate Editor, International Journal of Pattern Recognition and Artificial Intelligence

1996-2006
Associate Editor, International Journal of Computer Processing of Oriental Languages

Major Conference Organization

- General Chair, 7th International Symposium on Brain and Cognitive Engineering, 2015
- General Co-Chair, 2015 Robotics: Science and Systems Conference, 2015
- Workshop Chair, 2015 Korea Computer Congress, 2015
- General Chair, 6th International Symposium on Brain and Cognitive Engineering, 2014
- Program Chair, 2014 Korea Computer Congress, 2014
- General Chair, 4th International Workshop on Pattern Recognition in Neuroimaging, 2014
- General Co-Chair, 2014 IEEE International Winter Workshop on Brain-Computer Interface, 2014
- General Chair, 2013 IEEE International Winter Workshop on Brain-Computer Interface, 2013
- General Chair, 2012 IEEE International Conference on Systems, Man, and Cybernetics (SMC), 2012
- Programme Chair, International Workshop on Pattern Recognition in NeuroImaging (PRNI), 2012
- General Co-Chair, 2011 IEEE International Workshop on Pattern Recognition in NeuroImaging (PRNI), 2011

- Technical Co-Chair, 2010 International Conference on Pattern Recognition (ICPR), 2010
- Program Co-Chair, 8th IEEE International Conference on Machine Learning and Cybernetics (ICMLC), 2009
- Track Co-Chair, 19th IAPR/IEEE International Conference on Pattern Recognition (ICPR), 2008
- General Chair, 2nd IAPR/IEEE International Conference on Biometrics (ICB), 2007
- Program Co-Chair, 18th IAPR/IEEE International Conference on Pattern Recognition (ICPR), 2006
- Organizing Chair, 8th IEEE International Conference Document Analysis and Recognition (ICDAR), 2005
- Organizing Chair, 6th IEEE International Conference on Automatic Face and Gesture Recognition (FGR), 2004
- Organizing Chair, 16th Workshop on Image Processing and Image Understanding (IPIU), 2004
- Workshop Co-Chair, 2nd IEEE International Workshop on Biologically Motivated Computer Vision (BMCV), 2002
- Workshop Chair, IAPR International Workshop on Pattern Recognition with Support Vector Machines (SVM), 2002
- Program Co-Chair, 7th International Conference on Neural Information Processing (ICONIP), 2000
- Workshop Chair, 1st IEEE International Workshop on Biologically Motivated Computer Vision (BMCV), 2000
- Program Co-Chair, 2nd International Conference on Multimodal Interface (ICMI), 1999
- Program Co-Chair, 5th IEEE International Conference on Document Analysis and Recognition (ICDAR), 1999
- Workshop Chair, 3rd IAPR International Workshop on Document Analysis Systems (DAS), 1998
- Program Chair, 6th International Workshop on Frontiers in Handwriting Recognition (IWFHR), 1998
- Organizing Chair, Korean Workshop on Face Image Processing and Understanding, 1997
- Program Chair, Korea Joint Conference on AI, Neural Networks and Fuzzy Systems, 1997
- Program Chair, International Conference on Computer Processing of Oriental Languages (ICCPOL), 1997
- Organizing Chair, Korean Workshop on Character Recognition, 1993
- Program Chair, 4th Workshop on Image Processing and Understanding, 1992
- Organizing Chair, Korean Conference of Artificial Intelligence, 1991-1992

Program Committee Member

- International Symposium on Visual Computing (ISVC), 2015
- International Joint Conference on Biometrics (IJCB) 2014
- International Conference on Intelligent Data Engineering and Automated Learning (IDEAL) 2013
- International Conference on Robot Intelligence Technology and Applications (RiTA), 2013
- China-Japan-Korea Joint Workshop on Neurobiology and Neuroinformatics (NBNI), 2012
- International Workshop on Depth Image Analysis (WDIA), 2012
- International Conference on Machine Learning and Cybernetics (ICMLC), 2012
- International Workshop on Pattern Recognition in NeuroImaging (PRNI), 2012
- Asia-Pacific Conference on Vision (APCV), 2012
- International Conference on Robot Intelligence Technology and Applications (RiTA), 2012
- International Workshop on Human Activity Understanding from 3D Data (HAU3D), 2012

- 8th International Symposium on Visual Computing (ISVC), 2012
- International Workshop on Human Activity Understanding from 3D Data (HAU3D), 2011
- Asian Conference on Pattern Recognition (ACPR), 2011
- International Workshop on Pattern Recognition in NeuroImaging (PRNI), 2011
- International Joint Conference on Biometrics (IJCB), 2011
- 20th International Conference on Pattern Recognition (ICPR), 2010
- 1st International Workshop on Human Behavior Understanding (HBU), 2010
- 1st CJK Joint Workshop on Pattern Recognition (CJKPR), 2009
- 16th International Conference on Neural Information Processing (ICONIP), 2009
- 8th IEEE International Conference on Machine Learning and Cybernetics (ICMLC), 2009
- 3rd IAPR/IEEE International Conference on Biometrics (ICB), 2009
- 10th IEEE International Conference on Document Analysis and Recognition (ICDAR), 2009
- 6th International Conference on Cognitive Science (ICCS), 2008
- 10th International Conference on Control, Automation, Robotics and Vision (ICARCV), 2008
- 8th IEEE International Conference on Automatic Face and Gesture Recognition (FGR), 2008
- ECAI Workshop on Cognitive Collaborative Appliances, 2008
- 3rd International Symposium on Visual Computing (ISVC), 2007
- 7th International Workshop on Pattern Recognition in Information System (PRIS), 2007
- 4th International Conference on Signal Processing, Pattern Recognition and Applications (SPPRA), 2007
- 20th International Workshop on Artificial Intelligence for Human Computing (AI4HC), 2007
- 1st IAPR/IEEE International Conference on Biometrics (ICB), 2006
- 1st International Conference on Computer Vision Theory and Applications (VISAPP), 2006
- 7th IEEE International Conference on Automatic Face and Gesture Recognition (FGR), 2006
- International Workshop on Human Activity Recognition and Modeling, 2005
- International Workshop on Biometric Recognition Systems, 2005
- 1st International Conference on Biometric Authentication (ICBA), 2004
- 17th IAPR/IEEE International Conference on Pattern Recognition (ICPR), 2004
- 6th Asian Conference on Computer Vision (ACCV), 2004
- 9th International Workshop on Frontiers in Handwriting Recognition (IWFHR), 2004
- 4th International Conference on Audio- and Video-based Biometric Person Authentication (AVBPA), 2003
- 7th IEEE International Conference Document Analysis and Recognition (ICDAR), 2003
- 2nd Asian Conference on Vision (ACV), 2002
- 5th Asian Conference on Computer Vision (ACCV), 2002
- 16th IAPR/IEEE International Conference on Pattern Recognition (ICPR), 2002
- IAPR International Workshop on Machine Vision Applications (MVA), 2002
- 8th International Workshop on Frontiers in Handwriting Recognition (IWFHR), 2002

- 5th IAPR International Workshop on Document Analysis Systems (DAS), 2002
- 1st Asian Conference on Vision (ACV), 2001
- 6th IEEE International Conference Document Analysis and Recognition (ICDAR), 2001
- 15th IAPR/IEEE International Conference on Pattern Recognition (ICPR), 2000
- 4th IAPR International Workshop on Document Analysis Systems (DAS), 2000
- IAPR International Workshop on Machine Vision Applications (MVA), 2000
- 4th Asian Conference on Computer Vision (ACCV), 2000
- 7th International Workshop on Frontiers in Handwriting Recognition (IWFHR), 2000
- 6th International Conference on Neural Information Processing (ICONIP), 1999
- International Conference on Computer Processing of Oriental Languages (ICCPOL), 1999
- 14th IAPR/IEEE International Conference on Pattern Recognition (ICPR), 1998
- IAPR International Workshop on Machine Vision Applications (MVA), 1998
- International Symposium on Internet Technology (ISIT), 1998
- 3rd Asian Conference on Computer Vision (ACCV), 1998
- 4th International Conference on Neural Information Processing (ICONIP), 1997
- International Conference on Computer Processing of Oriental Languages (ICCPOL), 1997
- 4th IEEE International Conference on Document Analysis and Recognition (ICDAR), 1997
- 13th IAPR/IEEE International Conference on Pattern Recognition (ICPR), 1996
- 5th International Workshop on Frontiers in Handwriting Recognition (IWFHR), 1996
- International Conference on Computer Processing of Oriental Languages (ICCPOL), 1995
- 3rd IEEE International Conference on Document Analysis and Recognition (ICDAR), 1995
- 12th IAPR/IEEE International Conference on Pattern Recognition (ICPR), 1994
- Korea-Japan Joint Workshop on Frontiers in Machine Vision, 1994
- 4th International Workshop on Frontiers in Handwriting Recognition (IWFHR), 1994
- 2nd IEEE International Conference on Document Analysis and Recognition (ICDAR), 1993
- 3rd International Workshop on Frontiers in Handwriting Recognition (IWFHR), 1992
- Pacific Rim International Conference on Artificial Intelligence (PRICAI), 1991

Keynote Speech and Tutorial

- “Brain-Computer Interface: Recent Progress and Challenges in Neuro-Rehabilitation”, The 28th International Conference on Industrial, Engineering & Other Applications of Applied Intelligent Systems”, COEX, 2015.06.11.
- “Brain-Computer Interface for Smart Vehicle: Detection of Braking Intention during Simulated Driving”, 14th Japan-China-Korea Joint Workshop NBNI 2014, Okazaki-city, Japan, Dec. 18-20, 2014.
- “Neuro-Rehabilitation Engineering Research with Brain-Machine Interface at Korea University, 1st International Workshop on Wearable Robotics, Baiona, Spain, Sep. 14-19, 2014.
- “Neuro-Rehabilitation Robot Technology Based on Brain and Cognitive Engineering”, 2014년 뇌와 인공지능 심포지엄, 정선, 서울, Feb. 19-20, 2014.
- “Human Brain Decoding: State of the Art and Future Challenges,” 4th IEEE International Conference on BioMedical Engineering and Informatics, Shanghai, China, Oct. 15-17, 2011.

- “Brain Decoding: New Challenges in Multidisciplinary Research,” 5th Joint Conference on Information and Communication Technology, Weihai, China, Aug. 18, 2011.
- “Machine Learning Challenges for Human Brain Decoding,” 2011 IEEE International Conference on Machine Learning and Cybernetics, Guilin, China, July 11, 2011.
- “Visual Information Processing Technology for Human Motion Analysis,” Joint Workshop on Neural Information Processing Winter School on Neural Computation, Muju, Korea, Jan. 22, 2011.
- “Human Brain Decoding - Research Issues and Directions,” 2nd IEEE Youth Conference on Information, Computing and Telecommunications, Beijing, China, Oct. 28, 2010.
- “Gesture Recognition,” WASEDA-SSSA-KIST Summer School, KIST, Seoul, Korea, Oct. 14, 2010.
- “Gesture Recognition,” 2009 Korus-Tech / SKKU-ICE Summer School on Cognitive Robotics, Vision and Human Robot Interaction for Consumer Robots, Sungkyunkwan University, Suwon, Korea, Aug. 10, 2009.
- “Recent Progress in Brain Activity Analysis,” Winter School on Neuroinformatics, Sogang University, Seoul, Jan. 30, 2009.
- “확률 기반 Perception”, 블루오션 인력양성 프로그램 단기과정, 네트워크기반 지능형 로봇, 한양대학교, 2008. 11. 29.
- “Mind, Brain, and Robot,” 2008 International Robot Software Competition, Aug. 30. 2008.
- “Publish or Perish: How to Prepare High Quality Papers?,” IEEE International Conference on Machine Learning and Cybernetics, Kunming, China, July 14, 2008.
- “마음을 읽는 기술: 뇌영상 자동 분석 및 판독”, 2008 Korea Computer Congress, 평창, 2008.7.2.
- “Automatic Gesture Recognition Research for Human-Robot Interaction,” 7th IEEE International Conference on Automatic Face and Gesture Recognition (FGR), England, Apr. 12, 2006.
- “Top-down Learning for Low Resolution Facial Image Restoration,” 5th Chinese Conference on Biometric Recognition, China, Dec. 13, 2004.
- “로봇의 눈으로 본 세상”, 2003년 KBS 크리스마스 과학콘서트, 2003.12.27.
- “비디오 감시 및 보안 기술: 현황 및 전망”, 한국정보과학회 컴퓨터비전 및 패턴인식 연구회 춘계 워크샵, 2003.5.31.
- “OpenEyes: Wearable Machine Vision Technologies for the Blind,” 2nd IEEE International Workshop on Biologically Motivated Computer Vision (BMCV), Germany, Nov. 24, 2002.
- “얼굴 인식 기술의 현황 및 전망”, 2002년 정보통신망 정보보호 워크샵, 2002.5.17.
- “Wearable Machine Vision Technologies for the Blind,” 1st Asian Conference on Vision (ACV), Japan, July 31, 2001.
- “얼굴 인식 기술: 이론 및 실제”, 한국정보과학회 생체인식 워크샵, 2001.2.23.
- “OpenEyes: A Wearable Machine Vision System”, 제11회 영상처리 및 이해에 관한 워크샵, 2001.1.10.
- “시각 장애인을 위한 착용형 컴퓨터 시스템 기술”, 한국정보과학회 컴퓨터비전 및 패턴인식 연구회 워크샵, 2000.6.3.
- “인간 시각의 능동적 정보 처리 원리에 기반한 객체 인식 모형”, 세계 한민족 과학기술자 종합 학술대회, 1999.7.8.
- “컴퓨터 시각 기술의 현황: 얼굴 인식 기술을 중심으로”, 한국 생물·생리심리학회 워크샵, 1999.4.17.
- International Workshop on Human Interface Technology (IWHIT), 1998.
- “내용 기반 영상 및 비디오 검색 기술 현황”, 한국정보과학회 인공지능연구회 워크샵, 1998.5.
- “팩스 문서 영상 처리 및 인식 기술 동향”, 제9회 영상 처리 및 이해에 관한 워크샵, 1997.1.
- “Document Analysis Recognition Technologies,” 12th International Computer Symposium, Taiwan, Dec. 8, 1996.

- “문자 인식의 기본 문제들”, 한국인지과학회 인지과학 워크샵, 1996.7.2.
- “통계적 방법론과 신경망 방법론의 비교”, 통계 신경망 워크샵, 1996.1.22.
- “국내에서의 문서 영상 인식 기술 연구의 현황”, 한독 문서 인식기술 워크샵, 1995.11.1.
- “오프라인 필기 인식 기술의 현황 및 전망”, 제2회 문자 인식 워크샵, 1994.8.
- “패턴 인식의 기본 이론”, 대한전자공학회 인공지능, 신경망 및 퍼지시스템연구회 워크샵, 1992.6.
- “골격화 알고리즘에 관한 사례 연구 및 성능 평가”, 제19회 한국정보과학회 춘계학술발표회, 1992.4.

Invited Talk

- “뇌-기계 인터페이스: 최신 연구 성과 및 도전”, 제 7 회 뇌인지공학 심포지엄, 고려대학교, 2015.07.31.
- “Brain Re-engineering for Wearable Robots”, 2015 Robotics: Science and Systems Conference, Rome, 2015.07.17.
- “Brain-Machine Interface: Recent Progress and Challenges in Robot-Assisted Rehabilitation”, 브레인-재활로봇중개연구 워크숍 초청 강연, 국립재활원, 2015.07.15.
- “뇌와 컴퓨터의 접속: 기술 현황 및 전망”, 세계일보 초청강연, 2015.06.08.
- “Brain-Computer Interfaces based on Non-invasive EEG Signals”, 한국인터넷진흥원 초청강연, 2015.05.28.
- “Robot-Assisted Rehabilitation with Brain-Machine Interface”, 대구경북과학기술원 로봇공학과 초청세미나, 2015.05.13.
- “Recent Progress in Brain-Computer Interfaces: A Pattern Recognition Perspective”, 데이터마이닝 학회, 2015.04.03.
- “Non-invasive Brain-Machine Interface for Neurorehabilitation Robot”, 서울대학교 의과대학 재활과학기술학 심포지엄, 2015.01.27.
- “고려대학교 패턴인식 연구실 연구현황”, 조선대학교 컴퓨터공학과 초청세미나, 2014.10.02.
- “고려대학교 패턴인식 연구실 연구소개”, 네이버 초청세미나, 2014.09.26.
- “뇌-기계 인터페이스 기술의 이해”, 크라운해태제과 초청세미나, 2014.08.20.
- “Detection of Braking Intention in Diverse Situation during Simulated Driving based on EEG Feature Combination”, 6th International Conference on Brain and Cognitive Engineering
- “생각만으로 움직이는 세상: 뇌-컴퓨터 인터페이스 기술의 현황 및 전망”, 숙명여자대학교, 2014.05.08.
- “뇌-컴퓨터 인터페이스 기술: 생각만으로 움직이는 세상”, 한구연구재단 토요과학강연회, 2014.04.12.
- “Neuro-Driving: A Brain-Computer Interface for Smart Vehicle”, 프랑스한림원 초청세미나, 2014.04.08.
- “Neuro-Driving: A Brain-Computer Interface for Smart Vehicle”, INRIA, 2014.04.08.
- “뇌-컴퓨터 인터페이스 현황 및 전망”, 제6회 박문호의 자연과학 세상 뇌과학 심포지움, 2014.03.22.
- “생각만으로 움직이는 세상: 뇌-컴퓨터 인터페이스 기술의 현황 및 전망”, 서울대학교 치의생명과학과 초청세미나, 2014.03.11.
- “Neuro-Rehabilitation based on Brain-Computer Interface and Wearable Robotics”, 고려대학교 뇌공학콜로кви엄, 2014.03.03.
- “Neurorehabilitation Engineering Researches Based on Brain-computer Interface”, 분당서울대학교병원 재활의학과 10주년 기념 심포지엄 및 제 6 회 서울대학교 의과대학 재활의학교실 연수강좌, 2013.11.23.
- “뇌공학 기술의 현황 및 전망: 뇌-컴퓨터 인터페이스 기술을 중심으로”, ETRI SW포럼, 2013.10.21.
- “Neurorehabilitation Engineering Researches Based on Brain-computer Interface”, 분당서울대학교병원 재활

의학과 10주년 기념 심포지엄 및 제6회 서울대학교 의과대학 재활의학교실 연수강좌, 2013.11.23.

- “융합 기술로서의 뇌공학: 생각만으로 움직이는 세상”, 순천매산고등학교, 2013.07.12.
- “Big Data Neurotechnology 연구 사례”, 한림심포지움, 2013.06.14.
- “뇌-컴퓨터 인터페이스 기술 -생각만으로 움직이는 세상”, 금요일에 과학터치, 2013.05.03.
- “Neuro-Driving: Automatic Perception Technique for Upcoming Emergency Situations”, International Winter Workshop on Brain-Computer Interface 2013.02.19.
- “뇌-컴퓨터 인터페이스 기술 연구 현황”, 이화여자대학교, 2013.01.24.
- “Brain and Cognitive Engineering: New Challenges in Multidisciplinary Research”, 대구경북과학기술원, 2012.11.27.
- “Spatio-Spectral Filter Optimization in a Bayesian Framework for EEG-based Brain-Computer Interfaces”, 2012 BBCI Workshop – Advances in Neurotechnology, 2012.09.18
- “Neuro-Driving: Automatic Emergency Situation Perception based on Brain Activity Analysis”, The 4th International Symposium on Brain and Cognitive Engineering, 2012.06.01
- “Brain and Cognitive Engineering: New Challenges in Multidisciplinary Research”, US-Korea Conference on Science, 2012.04.27
- “융합 연구로서의 뇌공학: 현황 및 전망”, 뇌공학경진대회, 2012.04.28
- “Brain and Cognitive Engineering: New Challenges in Multidisciplinary Research”, 경희대학교, 2012.04.27.
- “뇌과학과 IT의 만남”, 연세대학교, 2012.03.21.
- “Spatio-Spectral Filter Optimization in a Bayesian Framework for EEG-based Brain-Computer Interfaces”, the 12th International Congress of Behavioral Medicine, 2012.01.31
- “EEG-based Person Authentication using Face-Specific Self-Representation”, The 11th Japan-Korea-China Joint Workshop on Neurobiology and Neuroinformatics, 2011.12.18.
- “Human Brain Decoding: State-of-the-Art and Future Challenges”, 아주대학교, 2011.11.24.
- “뇌공학: 융합 기술 연구의 새로운 도전”, 계명대학교, 2011.10.17.
- “Human Brain Decoding”, 전남대학교, 2011.6.3.
- “고려대학교 뇌공학과 연구 현황 소개”, 한국과학기술연구원, 2011.5.24.
- “인지과학 기술이란?”, 대원외국어고등학교, 2010.5.29.
- “뇌 영상 처리 기술의 현황 및 전망”, 전북대학교 컴퓨터과학과 초청세미나, 2010.5.26.
- “뇌공학 연구 현황 및 전망: 고려대학교 뇌공학과를 중심으로”, 이화여자대학교 컴퓨터공학과, 2009.12.16.
- “마음을 읽는 로봇, 가능한가?”, 대원외국어고등학교, 2009.12.5.
- “지능형 영상 감시 시스템 기술 소개”, ㈜에스원, 2009.6.18.
- “뇌공학 기술의 현황 및 전망”, 수원대학교, 2009.5.14.
- “마음을 찍는 카메라 기술: 현황과 전망”, 연세대학교 컴퓨터과학과 초청세미나, 2009.05.08.
- “IT 치안을 위한 지능형 비디오 감시 기술 소개”, 경찰청, 2009.04.16.
- “Mind, Brain, and Robot”, 숙명여자대학교, 2008.11.25.
- “Mind, Brain and Robot”, 대원외국어고등학교, 2008.10.4.
- “핸드폰 상에서의 버추얼 키패드 구현”, 삼성전자 정보통신총괄, 2008.8.5.

- “비전 기반 제스처 인식 기술 소개”, 삼성전자 디지털미디어총괄, 2007.11.13.
- “휴먼 동작 자동 분석 기술”, 연세대학교 컴퓨터과학과, 2007.9.28.
- “휴먼-로봇 상호작용을 위한 제스처 자동 인식 기술 현황 및 전망”, 포항공과대학교 컴퓨터공학과, 2005.11.30.
- “유비쿼터스 지능 로봇 기술의 현황 및 미래”, KAIST IT Academy, 2005.11.8.
- “Whole Body Gesture Recognition Research at Korea University,” National Center for Sign Language and Gesture Resources, Boston University, Apr. 14, 2005.
- “얼굴 표정 분석 및 인식 기술 현황”, KAIST 바이오시스템학과, 2004.11.3.
- “모바일 로봇 환경에서의 휴먼 동작 자동 분석 기술”, 삼성전자 정보통신연구소, 2004.10.13.
- “로봇의 눈 VS. 인간의 눈”, 고려대학교 정보통신최고위과정, 2003.12.18.
- “얼굴 인식 기술의 현황 및 전망”, 이화여자대학교 컴퓨터공학과, 2003.10.20.
- “재난 방지를 위한 정보통신 기술의 역할”, 고려대학교 정보통신최고위과정, 2003.6.5.
- “컴퓨터 비전 및 패턴 인식 기술의 현황 및 전망”, 영산대학교 정보통신학과, 2003.5.21.
- “삶을 풍요롭게 하는 디지털 영상 처리 기술”, 고려대학교 영상문화학 협동과정, 2003.5.16.
- “생명과학과 정보통신의 융합: 바이오인포매틱스 기술”, 고려대학교 생명과학대학, 2003.5.6.
- “생체 보안 기술의 현황과 전망”, 새한양 로타리클럽, 2003.2.7.
- “가려진 얼굴 영상 자동 복원 기술: 추적60분 사례를 중심으로”, 국립과학수사연구소, 2002.12.6.
- “실세계 응용을 위한 패턴 인식 기술 연구 현황”, 고려대학교 컴퓨터과학기술대학원, 2002.12.5.
- “고려대학교 인공시각연구센터에서의 컴퓨터 비전 및 패턴 인식 기술 연구 현황”, 숙명여자대학교 컴퓨터과학과, 2002.9.6.
- “Microarray 영상처리 및 진단 시스템”, 삼성종합기술원, 2002.8.21.
- “고려대학교 인공시각연구센터에서의 컴퓨터비전 및 패턴인식 기술 연구 현황”, KAIST 전산학과, 2002.4.8.
- “인터랙티브 하이퍼미디어 기술”, 한양대학교 전자공학과, 2001.3.27.
- “사이버영상: 컴퓨터를 이용한 영상의 생성, 해체, 그리고 결합”, SK 아트센터, 2001.3.23.
- “A Mobile Visual Aid: OpenEyes,” AI Lab, MIT, Jan. 23, 2001.
- “인공시각연구센터에서의 컴퓨터 시각 연구 현황”, 전남대학교 컴퓨터공학과, 2001.1.18.
- “시각 장애자를 위한 착용형 컴퓨터 시각 시스템: OpenEyes”, 연세대학교 인지과학연구소, 2000.9.18.
- “지능형 빌딩 시스템을 위한 영상 처리 기술”, 한국전기학회 지능형 빌딩 시스템 위원회, 2000.6.21.
- “시각 장애인을 위한 컴퓨터 시각 기술 전망”, 한국시각장애인연합회, 2000.6.16.
- “컴퓨터 시각 기술 현황 및 미래 전망”, 민족사관고등학교, 2000.5.31.
- “디지털 동영상처리 기술의 방송 응용”, KBS 기술연구소, 2000.5.29.
- “인공시각연구센터 연구 현황 소개”, KIST 휴먼로봇연구센터, 2000.5.22.
- “시각 장애인을 위한 착용형 컴퓨터 시제품, OpenEyes”, 고려대학교 인공시각연구센터 연구 개발 결과 발표회, 2000.4.19.
- “Content-based Image Retrieval”, 전남대 IDEC 센터, 1999.7.16.

- “헤드-아이 시스템 상에서의 능동 시각 기술: 이론 및 시스템 구현”, 전북대학교 영상.정보신기술연구소, 1999.4.16.
- “인공시각연구센터에서의 컴퓨터 시각 연구 방향”, 한국뇌학회 Vision Science, 1999.2.23.
- “실시간 얼굴 영상 추적 및 인식 기술”, 성균관대학교 전기전자컴퓨터공학부, 1999.2.9.
- “생물학적 시각 모형에 기반한 인공시각 연구 현황”, 과학기술부 창의적연구진흥사업 제1차 Conference, 1999.1.29.
- “Biological Vision vs. Computer Vision”, 포항공대 뇌연구센터 Brain School, 1998.12.18.
- “Automatic Form Document Analysis Techniques,” NEC C&C Media Research Laboratories, Nov. 18, 1998.
- “Truly 2-D HMM for Character Recognition,” Fujitsu Laboratories, Nov. 16, 1998.
- “Content-based picture retrieval research at Korea University,” Sony Music Communications, Nov. 13, 1998.
- “Real-time Face Recognition and Tracking,” Toshiba Research and Development Center, Nov. 12, 1998.
- “Image analysis and understanding research at Korea University,” Shinshu University, Nov. 9, 1998.
- “Hidden Markov Models for Handwritten Character Recognition,” Hitachi Central Research Laboratories, Nov. 3, 1998.
- “컴퓨터 시각 기술: 어디까지 왔나?”, 평택대학교 전자계산학과, 1998.6.12.
- “Biologically-motivated computer vision”, 포항공대 뇌과학연구센터 콜로키움, 1998.5.
- “미디어 학과 신설의 필요성: 고려대학교 영상정보처리 협동과정을 중심으로”, 한국정보과학회 HCI 연구회 파빌 토론, 1998.2.
- “생물학적 시각 모형에 기반한 인공 시각 연구 계획 및 현황”, 연세대학교 인지과학협동과정, 1998.1.
- “Image Skeletonization Algorithms”, The University of Aizu, 1997.11.
- “동영상 장면 자동 분할 기술”, 시스템공학연구소 영상정보처리연구실, 1997.7.15.
- “신경망에 기반한 패턴 인식 기술의 연구 현황”, 전남대학교 기초과학연구소, 1997.6.
- “연속 필기 숫자 인식 시스템”, 포항공대 전자공학과, 1996.10.
- “가정용 컴퓨터를 위한 사용자 얼굴 인식 기술 현황”, LG 전자 멀티미디어 연구소, 1996.6.
- “실시간 얼굴 영상 인식 기술”, 시스템공학연구소 영상정보처리 연구실, 1996.4.
- “패턴 인식과 통계학”, 서울대학교 통계학과, 1996.3.
- “패턴 인식 기술의 연구 현황”, 고려대학교 전자공학과, 1996.3.
- “얼굴 영상 이해 기술의 현황”, LG 전자 미디어 통신 연구소, 1996.1.27.
- “문자 인식 기술: 어디까지 왔나?”, 이화여자대학교 전자계산학과, 1994.10.
- “패턴 인식 기술의 현황 및 전망”, 부산대학교 전자계산학과, 1994.9.
- “우편물 자동 분류 기술의 현황”, 통신개발연구원, 1994.9.
- “문서 분석 및 인식 기술의 현황 및 전망”, KAIST 전산학과 하계 강좌, 1994.7.
- “문서 인식 기술의 이론과 실제”, 중앙대학교 전자계산학과, 1994.6.
- “신경망 이론과 패턴 인식 기술”, ㈜포스데이터 기술연구소, 1994.5.
- “문자 인식 기술의 현황 및 전망”, 서울대학교 공과대학 4과 세미나, 1994.5.
- “한글 인식 기술의 현황 및 전망”, 한국정보과학회 전산관련학과 교수 세미나, 1993.7.

- “온라인 필기 한자 인식의 개발”, 금성사 중앙연구소, 1993.4.
- “문서 분석 및 인식 기술의 최근 연구 동향”, 연세대학교 전산학과, 1993.3.
- “텍스트 인식을 위한 후처리 기법의 개요”, 시스템공학연구소, 1992.12.
- “온라인 필기 인식 기술의 현황 및 전망”, 삼성종합기술원 정보기술연구소, 1992.11.
- “통계적 패턴 인식의 원리”, 한국전자통신연구소 기초기술연구부, 1992.3.
- “필기체 한글 인식 OCR의 개발 방향”, (주)삼성전관 컴퓨터사업부, 1992.2.