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Educational background

1986-1990 Seoul National University (Doctor of Engineering - The Department of Control and Instrumentation Engineering)
1984-1986 Seoul National University (Master of Engineering - The Department of Control and Instrumentation Engineering)
1980-1984 Seoul National University (Bachelor of Engineering - The Department of Control and Instrumentation Engineering)

Major careers

2016.09-2018.06 Director of the Research Institute for Information and Electronics
2018.01-present : Journal of Electrical Engineering and Technology Associate Editor
2011.03-2011.06 Visiting professor at Mongolia International University
2008.01-2009.12 Dean of the College of Information and Electronics Engineering
2006.01-2007.12 Dean of the College of Information and Electronics Engineering
2006.01-2007.12 Director of the Research Institute for Information and Electronics
2006.01-2006.02 Head of BK21 Multimedia Application Technology Team
2005.02-2006.01 Dean of Division of Information and
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2004-2005 Visiting scholar at University of California at Santa Barbara
2001.09-2002.08 Head of BK21 Multimedia Application Technology Team
2001-2002 Deputy Team Manager of BK21
1999.03-2000.02 Head of the Major in Electronic Engineering
1999.02-2000.01 Dean of the Division of Electronic Engineering
1993-1994 Visiting Researcher of the Human Interface Institute, NTT, Japan
1992-1998 Senior researcher of theCommunication Network Research Institute, KT
1990-1992 Senior researcher of the HDTV Development Project Group, the Korea Institute of Industrial Technology

Studies & Books

1. "Improvement of Viewing Experience on Stereoscopic Image Guided by Human Stereo Vision," Multimedia Tools and Applications, vol. 78, pp. 4377-4394, February, 2020.

2. "A temporally irreversible visual attention model based on motion sensitive neuron models," IEEE Transactions on Industrial Informatics , vol. 16, no. 1, pp. 595-605, Jan. 2020.

3. "Improvement of Viewing Experience on Stereoscopic Image Guided by Human Stereo Vision," (Multimedia Tools and Applications, 2019)

4. "A bio-inspired motion sensitive model and its application to estimating human gaze positions under classified driving conditions," (Neurocomputing, 2019)

5. "Eye fixation location recommendation in advanced driver assistance system," (Journal of Electrical Engineering and Technology, 2019)

6. "No-reference image quality assessment using independent component analysis and convolutional neural network," (Journal of Electrical Engineering and Technology, 2019)

7. "Recognition of multiple concatenated arm gestures using six-axis inertial sensor signals," (International Journal of Control and Automation, 2018)

8. "Short-range visible light positioning based on angle of arrival for smart indoor service," (Journal of Electrical Engineering and Technology, 2018)

9. "An Implementation of Gesture Interaction for Inner Object Selection and Its Application to AR Advertising", (International Journal of Applied Engineering Research, 2016)

10. "A Decentralized Approach to Geometric Video Correction for Network-based Video Wall", International Journal of u- and e- Service, (Science and Technology, 2015)

11. "An implementation of content management systems for augmented reality advertising", (International Journal of Applied Engineering Research, 2015)

12. "Infrared Data Measurement Modeling and Non-Uniformity Correction (NUC) (Algorithm for Infrared Detector", 2013)

13. "Theoretical design and dnalysis of EDFA gain control system based on two-level EDFA model", (Studies in Informatics and Control, 2013)

14. "EDFA Gain Control using Disturbance Observer Technique", (International Journal of Control and Automation, 2013)

15. "Filter bank approach to clutter filtering in ultrasound imaging", (Communications in Computer and Information Science, 2012)

16. "A novel MDL-based compression method for power quality applications," (IEEE Transactions on Power Electonics IEEE, 2006)

17. "A preprocessing approach to improving the quality of the music decoded by an EVRC codec", (IEICE Transactions on Communications IEICE, 2003)

18. 「음성 웹 애플리케이션 구축을 위한 VoiceXML」(한빛미디어, 2001)

19. "Postprocessing for vector quantized images based on projection onto hypercubes", IEEE Transactions on Circuits and Systems for Video Technology, (IEEE, 2001)

20. "Theory of projection onto narrow quantization constraint set and its application", IEEE Transactions on Image Processing (IEEE, 1999)

Others

[주요연구분야]

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2004-2005 University of California, Santa Barbara 방문교수

1993-1994 일본 NTT Human Interface 연구소 객원연구원

1992-1998 KT 통신망연구소 선임연구원

1990-1992 생산기술연구원 HDTV 개발사업단 선임연구원

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