

THE SOCIETY OF CONVERGENCE KNOWLEDGE TRANSACTIONS

• **Development and Application of an Aroma-Based Functional Hair Tonic Using Inclusion Technology**

A-yun Kim, Eun-Ji Kim, Je-myung Lee, and In-Kyoung Kim / 1

• **AI-based Color Restoration and 3D Hologram Research using Historical Figures' Images, Focusing on the Top 9 Great Figures in Elementary, Middle, and High School Education in Korea**

Kangyo Lee, Narzulloyev Oybek, Jinwon Choi, Leehwan Hwang, Soonchul Kwon, and Seunghyun Lee / 11

• **Two-Dimensional Radar Target Tracking Using a Double-Gate Converted Measurement Kalman Filter**

Dong-Gyu Lee / 23

• **Development of an Ozone Concentration Prediction Model Using Machine Learning**

Inkyu Song and Jaehyun Kim / 33

• **Displacement Correction of Hector SLAM Using ToF Sensor in Symmetric Corridor Environments**

Sungbin Chong and Sangrok Lee / 45

• **Ensemble Machine Learning-Based Prediction of MLB Team Performance and Decision Support for Training Strategies**

Kyu-Wan Kim and Ji-Hoon Seo / 53

• **An Analysis of the Determinants of Financial Performance of Program Providers Using Dupont Decomposition**

Chan-Hee Han and Youn-Gon Kang / 69

• **A Study on Hierarchical Deep Learning-Based Automated Diagnosis Model for Dysphagia Using VFSS Images**

Jin Gyeong Lee and Hee-Kyung Moon / 87

• **MRMS-WaveGAN : A Multi-Resolution and Multi-Scale WaveGAN Extension for Waveform-Domain Audio Data Augmentation**

Do Kyung Shin / 99

• **Qualitative Case Study on the Competency Perception Gap Between University and Industry
- Focusing on Rubric-Based Skill-Prints for Competency Assessment and Narrative Credentialing**

Junyong Ok, Naeun Park, and Hanjin Lee / 121

3

2026 Vol.14 No.1

