Table of Contents

Informational Analysis of MODIS Satellite Evapotranspiration Data of Vegetation Cover: a Method to Reveal the Presence of Plant Diseases Luciano Telesca, Rosa Lasaponara, Farid Faridani, Nicodemo Abate, and Michele Lovallo	1
Stress Detection Based on Wearable Physiological Sensors Laboratory and Real Life Pilot Scenario Application Vasileios-Rafail Xefteris, Athina Tsanousa, Spyridon Symeonidis, Sotiris Diplaris, Francesco Zaffanela, Martina Monego, Maria Pacelli, Stefanos Vrochidis, and Ioannis Kompatsiaris	7
Fruiting Mother-Shoot Counting System Based On Segmented Images RuoQi Zhao, Megumi Wakao, Naoki Morita, and Kenta Morita	13
Requirements for Piano Lesson Support System Naoki Morita, Chiharu Nakanishi, Chiaki Sawada, Kenta Morita, and Kazue Kawai	18
Development of a Score Click Playback System Motoya Wakiyama, Megumi Wakao, Naoki Morita, Kenta Morita, Chiharu Nakanishi, Chiaki Sawada, and Kazue Kawai	21
Compression via Partial Pseudo-Randomization of Convolutional Neural Networks Under High Memory Constraints Florent Crozet, Stephane Mancini, and Marina Nicolas	24
Improvement of SSVEP Detection Accuracy via Additive Averaging of Binaural Peripheral Electrodes Taichi Haba, Gaochao Cui, Fumiya Kinoshita, and Hideaki Touyama	31
RCT-Net: TDNN based Speaker Verification with 2D Res2Nets on Frame Level Feature Extractor Razieh Khamsehashari, Fengying Miao, Tim Polzehl, and Sebastian Moller	37
Supervised Spatial Divide-and-Conquer Applied to Fish Counting Gianna Arencibia-Castellanos, Alejandro Gonzalez-Fernandez, Maria Castillo-Moral, Ruben Fraile, Juana M. Gutierrez-Arriola, and Fernando Pescador	43
In-video Searching for Melody in Piano Lesson Videos Tatsuya Oshiro, Megumi Wakao, Naoki Morita, Kazue Kawai, Chiharu Nakanishi, Chiaki Sawada, and Kenta Morita	48
SL(2,R) Multi-scale Contour Registration Based on Riemannian Calculation <i>Khaoula Sakrani, Sinda Elghoul, and Faouzi Ghorbe</i>	51
Comparison of Different Speech Features for Connected Number Recognition of Indian Vernacular Languages Mayurakshi Mukherji, Shreyas Kulkarni, Vivek Kumar, Senthil Raja G, Thiruvengadam Samon, Kingshuk Banerjee, and Yuichi Nonaka	56

On Machine Integers and Arithmetic Pavel Loskot	63
A Refined ERR-based Method for Nonlinear System Identification. Application to Epilepsy. Marc Greige, Ahmad Karfoul, Isabelle Merlet, and Regine Le Bouquin Jeannes	67
Divergence-Based Regularization for End-to-End Sensing Matrix Optimization in Compressive Sampling Systems Roman Jacome, Henry Arguello, Alejandra Hernandez-Rojas, and Paul Goyes	72