Table of Contents

Deep Learning Approach for Shadow Removal Using Semantic Segmentation and Attention Mechanism <i>Po-Chin Chang and Shi-Jinn Horng</i>	1
Applying an Artificial Neuromolecular System with Autonomous Learning Capability to Learn to Control the Movement of a Six-Axis Robotic Arm <i>Jong-Chen Chen and Guan-Rong Chen</i>	8
Informational Analysis of Time Series of Sentinel-1 Vegetation Indices for Discerning Pest-affected Vegetation Sites: the case of Toumeyella Parvicornis Luciano Telesca, Nicodemo Abate, Michele Lovallo, and Rosa Lasaponara	10
An Empirical Study on the Usage and Effectiveness of the Smart Coding Tutor in a Python Course Nien-Lin Hsueh, Ying-Chang Lu, and Lien-Chi Lai	17
EMMA: Extended Multimodal Alignment for Robust Object Retrieval <i>Rahul Agarwal</i>	23
Concept of Ecosystem for Smart Agriculture: Millimeter-Wave Information-Centric Wireless Visual Sensor Network Shintaro Mori	33
Harnessing Eye-Tracking Technology to Analyze Gen Z's Engagement with Digital Marketing <i>Emad Bataineh and Mohammed Almourad</i>	38
AI Explain: AI-Generated Graphic Storytelling for Explaining AI Across Cultures Petra Ahrweiler and Gayathri Geetha Rajan	44
Automated Use Case Diagram Generator: Transforming Textual Descriptions into Visual Representations using a Large Language Model <i>Maxmillan Giyane and Dzinaishe Mpini</i>	47
Methodology for Integrated Mapping of Radiation and Light Intensity in Power Transmission Lines Maria Luiza Stedile, Joao Henrique Soares, Davi do Valle, Andre de Oliveira, and Ronnier Rohrich	52
RGB-D Object Classification System for Overhead Power Line Maintenance Jose Mario Nishihara, Heitor Lopes, Thiago Silva, Andre Lazzaretti, Andre de Oliveira, and Ronnier Rohrich	55
Non-Terrestrial Networks: Architecture and Implementation Challenges Andre Paula, Ariel Bentes, Ayan Abreu, Francine Oliveira, Ivan Junior, Jose Silva, Jose Ferreira, Mayara Moura, Paulo Cordeiro, and Taila Santos	61

Simultaneous Localization, Mapping, and Moving Object Tracking Using Helmet-Mounted Solid-State LiDAR Ikuro Inaga, Masafumi Hashimoto, and Kazuhiko Takahashi	67
Psychological Issues for Designing XR Spaces: From Usability to Humability Britta Essing, Dennis Paul, and Rene Reiners	74
Cooperation between Unmanned Aerial Vehicles and Wireless Cellular System Vicente Casares-Giner, Xiaohu Ge, and Yuxi Zhao	82
Usability Study of the CICERONE App for Telemonitoring COPD Patients Patricia Camacho Magrinan, Daniel Sanchez Morillo, Regla Moreno Mellado, Eva Vazquez Gandullo, Alfonso Marin Andreu, and Antonio Leon Jimenez	88
Malware Detection Using Machine Learning: A Comparative Analysis Sameeruddin Mohammed, Fan Zhang, Faria Brishti, Baiyun Chen, and Fan Wu	94
The 3-Ellipse Model: A Lens for Understanding Generative AI's Impact on Organisations <i>Mercy Williams, Jon G. Hall, Lucia Rapanotti, and Khadija Tahera</i>	100
Does Johnny Get the Message? Evaluating Cybersecurity Notifications for Everyday Users Victor Juttner and Erik Buchmann	103
Quantized Rank Reduction: A Communications-Efficient Federated Learning Scheme for Network-Critical Applications Dimitrios Kritsiolis and Constantine Kotropoulos	112
System Integration of Multi-Modal Sensor for Robotic Inspection of Power Lines Gustavo Fardo Armenio, Joao Henrique Campos Soares, Maria Luiza Cenci Stedile, Oswaldo Ramos Neto, Ronnier Frates Rohrich, and Andre Schneider Oliveira	118
A Novel Robotic Mechanism for Efficient Inspection of High-Voltage Transmission Lines Oswaldo Ramos Neto, Jose Mario Nishihara, Davi Riiti Goto Valle, Alexandre Domingues, Ronnier Frates Rohrich, and Andre Schneider Oliveira	124
Optimizing Neural Networks for Activity Recognition in Daily Living: A Case Study Using Signal Processing and Smartwatch Sensors <i>Klemens Waldhor and Philipp Muller</i>	126
Early Response Prediction for H2 Sensors Raduan Sarif, Carlo Tiebe, and Christian Herglotz	131
Progressively Overcoming Catastrophic Forgetting in Kolmogorov–Arnold Networks Evgenii Ostanin, Nebojsa Djosic, Fatima Hussain, Salah Sharieh, Alexander Ferworn, and Malek Sharieh	138

Redefining Leadership: AI Literacy is a Strategic Imperative for 21st Century Leaders Claudette McGowan, Salah Sharieh, and Alexander Ferworn	144
Inducing and Detecting Anchoring Bias via Game-Play in Time-extended Decision-Making Tasks Prithviraj Dasgupta, John Kliem, Mark Livingston, and Jonathan Decker	149
Geozone-Aware Unmanned Aerial Vehicles (UAV) Path Planning Using RRT* and Jellyfish-Inspired Optimization for Urban Air Mobility (UAM) Judit Salvans Baucells, Elham Fakhraian, and Ivana Semanjski	155