

## 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 <i>Toumeyella Parvicornis</i> <i>Luciano Telesca, Nicodemo Abate, Michele Lovallo, and Rosa Lasaponara</i>	10
An Empirical Study on the Usage and Effectiveness of the Smart Coding Tutor in a Python Course <i>Nien-Lin Hsueh, Ying-Chang Lu, and Lien-Chi Lai</i>	17
WITHDRAWN	23
Concept of Ecosystem for Smart Agriculture: Millimeter-Wave Information-Centric Wireless Visual Sensor Network <i>Shintaro Mori</i>	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 <i>Petra Ahrweiler and Gayathri Geetha Rajan</i>	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 <i>Maria Luiza Stedile, Joao Henrique Soares, Davi do Valle, Andre de Oliveira, and Ronnier Rohrich</i>	52
RGB-D Object Classification System for Overhead Power Line Maintenance <i>Jose Mario Nishihara, Heitor Lopes, Thiago Silva, Andre Lazzaretti, Andre de Oliveira, and Ronnier Rohrich</i>	55
Non-Terrestrial Networks: Architecture and Implementation Challenges <i>Andre Paula, Ariel Bentes, Ayan Abreu, Francine Oliveira, Ivan Junior, Jose Silva, Jose Ferreira, Mayara Moura, Paulo Cordeiro, and Taila Santos</i>	61

Simultaneous Localization, Mapping, and Moving Object Tracking Using Helmet-Mounted Solid-State LiDAR <i>Ikuro Inaga, Masafumi Hashimoto, and Kazuhiko Takahashi</i>	67
Psychological Issues for Designing XR Spaces: From Usability to Humability <i>Britta Essing, Dennis Paul, and Rene Reiners</i>	74
Cooperation between Unmanned Aerial Vehicles and Wireless Cellular System <i>Vicente Casares-Giner, Xiaohu Ge, and Yuxi Zhao</i>	82
Usability Study of the CICERONE App for Telemonitoring COPD Patients <i>Patricia Camacho Magrinan, Daniel Sanchez Morillo, Regla Moreno Mellado, Eva Vazquez Gandullo, Alfonso Marin Andreu, and Antonio Leon Jimenez</i>	88
Malware Detection Using Machine Learning: A Comparative Analysis <i>Sameeruddin Mohammed, Fan Zhang, Faria Brishti, Baiyun Chen, and Fan Wu</i>	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 <i>Victor Juttner and Erik Buchmann</i>	103
Quantized Rank Reduction: A Communications-Efficient Federated Learning Scheme for Network-Critical Applications <i>Dimitrios Kritsiolis and Constantine Kotropoulos</i>	112
System Integration of Multi-Modal Sensor for Robotic Inspection of Power Lines <i>Gustavo Fardo Armenio, Joao Henrique Campos Soares, Maria Luiza Cenci Stedile, Oswaldo Ramos Neto, Ronnier Frates Rohrich, and Andre Schneider Oliveira</i>	118
A Novel Robotic Mechanism for Efficient Inspection of High-Voltage Transmission Lines <i>Oswaldo Ramos Neto, Jose Mario Nishihara, Davi Riiti Goto Valle, Alexandre Domingues, Ronnier Frates Rohrich, and Andre Schneider Oliveira</i>	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 <i>Raduan Sarif, Carlo Tiebe, and Christian Herglotz</i>	131
Progressively Overcoming Catastrophic Forgetting in Kolmogorov–Arnold Networks <i>Evgenii Ostanin, Nebojsa Djosic, Fatima Hussain, Salah Sharieh, Alexander Ferworn, and Malek Sharieh</i>	138

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