

Editor in Chief

Ph.D. Xiangmo Zhao

Prof. and President of Xi'an Technological University, Xi'an, China

Director of 111 Project on Information of Vehicle-Infrastructure Sensing and ITS, China

Associate Editor-in-Chief

Professor Xiang Wei

Electronic Systems and Internet of Things Engineering

College of Science and Engineering

James Cook University, Australia

Dr. Chance M. Glenn, Sr.

Professor and Dean

College of Engineering, Technology, and Physical Sciences

Alabama A&M University

4900 Meridian Street North Normal, Alabama 35762, USA

Professor Zhijie Xu

University of Huddersfield, UK

Queensgate Huddersfield HD1 3DH, UK

Professor Jianguo Wang

Vice Director and Dean

State and Provincial Joint Engineering Lab. of Advanced Network and Monitoring Control,
China

School of Computer Science and Engineering, Xi'an Technological University, Xi'an, China

Ph. D Natalia Bogach

Director of Computer Science Department

Peter the Great St. Petersburg Polytechnic University, Russia

Administrator

Dr. & Prof. George Yang
Department of Engineering Technology
Missouri Western State University, St. Joseph, MO 64507, USA

Professor Zhongsheng Wang
Xi'an Technological University, China
State and Provincial Joint Engineering Lab. of Advanced Network and Monitoring Control,
China

Associate Editors

Prof. Yuri Shebzukhov
International Relations Department, Belarusian State University of Transport, Republic of
Belarus.

Dr. & Prof. Changyuan Yu
Dept. of Electrical and Computer Engineering, National Univ. of Singapore (NUS)

Dr. Omar Zia
Professor and Director of Graduate Program
Department of Electrical and Computer Engineering Technology
Southern Polytechnic State University
Marietta, Ga 30060, USA

Dr. Baolong Liu
School of Computer Science and Engineering
Xi'an Technological University, CHINA

Dr. Mei Li
China university of Geosciences (Beijing)
29 Xueyuan Road, Haidian, Beijing 100083, P. R. China

Dr. Ahmed Nabih Zaki Rashed
Professor, Electronics and Electrical Engineering
Menoufia University, Egypt

Dr. Rungun R Nathan
Assistant Professor in the Division of Engineering, Business and Computing
Penn State University - Berks, Reading, PA 19610, USA

Dr. Taohong Zhang
School of Computer & Communication Engineering
University of Science and Technology Beijing, China

Dr. Haifa El-Sadi
Assistant professor
Mechanical Engineering and Technology
Wentworth Institute of Technology, Boston, MA, USA

Huaping Yu
College of Computer Science
Yangtze University, Jingzhou, Hubei, China

Ph. D Yubian Wang
Department of Railway Transportation Control
Belarusian State University of Transport, Republic of Belarus

Prof. Mansheng Xiao
School of Computer Science
Hunan University of Technology, Zhuzhou, Hunan, China

Prof. Ying Cuan
School of Computer Science, Xi'an Shiyou University, China

Qichuan Tian
School of Electric & Information Engineering
Beijing University of Civil Engineering & Architecture, Beijing, China

Ph. D MU JING
Xi'an Technological University, China

Language Editor

Professor Gailin Liu
Xi'an Technological University, China

Dr. H.Y. Huang
Assistant Professor
Department of Foreign Language, the United States Military Academy, West Point, NY
10996, USA

Would you like to be an Associate Editor? Simply send a request together with your Curriculum Vitae to xxwlc@163.com. We will have a team of existing editors or at least three experts in your field to review your request and make a decision as soon as we can. The criteria to be an associate editor are: 1. must have advanced degree; 2. must be a leader or have outstanding achievements in the specific research field; 3. must be recommended by the review team.

Publisher: State and Provincial Joint Engineering Lab. of Advanced Network
Monitoring and Control (ANMC)

Cooperate:

Xi'an Technological University (CHINA)
West Virginia University (USA)
Huddersfield University of UK (UK)
Missouri Western State University (USA)
James Cook University of Australia
National University of Singapore (Singapore)

Approval:

Library of Congress of the United States
Shaanxi provincial Bureau of press, Publication, Radio and Television

Address:

4525 Downs Drive, St. Joseph, MO64507, USA
No. 2 XueFu Road, WeiYang District, Xi'an, 710021, China

Telephone: +1-816-2715618 (USA) +86-29-86173290 (CHINA)

Website: www.ijanmc.org

E-mail: ijanmc@ijanmc.org

xxwlc@163.com

ISSN: 2470-8038

Print No. (China): 61-94101

Publication Date: June 20, 2026

Table of Contents

Research on the MS-YOLO Model Based on Deep Learning for Small Object Detection in Product Recognition	1
<i>Yuxuan Dong, Zhongsheng Wang</i>	
A MOOC Course Recommendation Method Integrating Reinforcement Learning and Neural-Symbolic Reasoning	12
<i>Xiaolan Cao, Jingyi Hu, Xuechen Xu, Shengquan Wang</i>	
Research on Image Super-Resolution Algorithm Based on Improved GAN.....	20
<i>Peng Gai, Li Zhao</i>	
A mapping method integrating enhanced multi-line laser radar and IMU.....	29
<i>Caixiang Zhang, Xiaodong Wu, Liming Yao, Shuping Xu</i>	
Hybrid Genetic and Ant Colony Optimization Multipath Congestion-Free Routing Algorithm.....	39
<i>Hui Wang, Qi Yu, Dongsheng Li, Xueqiao Cao</i>	
Research on Small Object Detection in UAV Aerial Imagery Based on Improved YOLOv11.....	53
<i>Bitong Liu, Yaoxuan Yuan</i>	
Apricity: An AI-Powered Mental Health Companion for CBT-Based Emotion Tracking and Analysis.....	63
<i>Shekh Abdullah-Al-Musa Ahmed, Maharaj Hossain Tanim, Musber Ahmed Sadman, Md Habibul Bashar</i>	
Theoretical Model for Balancing Reliability and Latency in Hybrid CRC–Polar Coding for 6G Wireless Networks.....	73
<i>Adediran Oluwaseyi Segun, Akwaronwu Bright, Aina Bamikola, Ajaegbu Chigozirim</i>	
Design and Implementation of a Low-Threshold Automatic Virtual Scene Generation Framework Based on Pix2Pix and Unity.....	89
<i>Liangliang Jin</i>	
Research on Multi-modal Object Detection Methods for Low-Light Scenarios Based on Dual-Stream Interleaved Fusion.....	99
<i>Songhao Li, Zhongsheng Wang</i>	