Section on Computer Science and Control Engineering

Editorial Head

Do Viet Binh Institute of Information Technology and Electronics, AMST.

Topical Editors

Nguyen Thanh Thuy University of Engineering and Technology, VNU; Nguyen Long Giang Institute of Information Technology, VAST;

Nguyen Chi Thanh Institute of Information Technology and Electronics, AMST; Bach Nhat Hoang Institute of Information Technology and Electronics, AMST;

Nguyen Duc Dung Institute of Information Technology, VAST; Ngo Thanh Long Faculty of Information Technology, LQDTU;

Nguyen Quang Vinh Institute of Missile, AMST;

Tran Ngoc Binh Institute of Military Automation Engineering, AMST; Nguyen Ngoc Hoa University of Engineering and Technology, VNU; Ta Minh Thanh Faculty of Information Technology, LQDTU;

Nguyen Quang Hung Institute of Military Automation Engineering, AMST;
Tran Duc Thuan Academy of Military Science and Technology:

Tran Duc Thuan Academy of Military Science and Technology; Nguyen Hieu Minh Institute of Cryptography Science and Technology;

Thai Trung Kien Institute of Information Technology and Electronics, AMST;
Pham Van Nha Institute of Information Technology and Electronics, AMST;
Tran Trung Kien Institute of Information Technology and Electronics, AMST;

Nguyen Long Department of Information Technology, NDA.

Secretarial Staff

Phung Nhu Hai Institute of Information Technology and Electronics, AMST;
Cao Van Toan Institute of Information Technology and Electronics, AMST;
Ngo Duy Do Institute of Information Technology and Electronics, AMST;

Contact Information Email: csce@jmst.info

Phone: 098.743.5118

TABLE OF CONTENTS

01	Cao Duc Sang, Nguyen Trong Khuyen, Vu Hai Ha, Nguyen An Thi A smooth robust controller for the path following of underactuated surface vehicles under disturbances.	3 - 12
02	Le Van Hoang, Nguyen Hong Hanh, Pham Van Nha Research integration of a real-time object detection model on an underwater observation system using Laser Range-Gated imaging.	13 - 22
03	Nghiem Van Tinh, Le Thi Luong, Pham Quang Hieu An enhanced fuzzy time series forecasting model using Gaussian membership functions and PSO-based parameter optimization.	23 - 34
04	Nguyen Van Khoi, Nguyen Quang Vinh, Nguyen Trong Yen Integrated INS/GPS navigation solution for high-speed vehicles.	35 - 41
05	Nguyen Duc Hai, Bach Nhat Hoang Research on solutions to accelerate computation for CNN executed on resource-limited SoC-FPGA.	42 - 50
06	Dang Duc Thinh, Hoang Hung Long, Phung Nhu Hai Two-stage fine-tuning of whisper with metric-driven dataset selection for domain-specific Vietnamese ASR.	51 - 60
07	Le Thi Thu Hong, Nguyen Chi Thanh, Dang Hoang Minh, Pham Van Tung, Pham Thu Huong A simulation-to-real image translation approach via diffusion model for military vehicle recognition.	61 - 71
08	To Thi Thu, Nguyen Long, Nguyen Duc Dinh A timing efficient method for interactive multi-objective optimization algorithms.	72 - 82
09	Pham Van Nha, Le Cam Binh Deep multi-view fuzzy consensus with uncertainty.	83 - 91
10	Dang Hoang Minh, Truong Xuan Tung, Vu Duc Truong, Do Viet Binh A simulated-crowd guided augmentation training framework for realistic crowd-aware robot navigation.	92 - 100
11	Kieu Tuan Dung, Tran Ha Phuong, Tran Trung Kien, Le Thi Lan, Tran Thanh Hai BrainFL: Federated learning for brain diseases classification.	101 - 110
12	Nguyen Xuan Bac, Le Viet Hoang, Dao Xuan Uoc, Hoang Dinh Thang Ship detection and tracking based on an improved YOLO11n and ByteTrack framework.	111 - 122
13	Hoang Van Toan, Dang Duc Thinh, Phung Nhu Hai POSW-Vote: A precision-oriented weighted voting framework for robust information extraction from domain-specific reports.	123 - 134
14	Bach Nhat Hoang, Nguyen Duc Hai, Pham Thanh Thuong, Le Ba Dung, Chu Thi Quynh, Nguyen Thu Hong, Trinh Dinh Cuong, Doan Trung Thanh Research and proposal of a hybrid quantum artificial intelligence model for classifying marine mammal signals based on passive sonar principles.	135 - 141
15	Le Anh Quang, Luong Quoc Le, Tran Trung Kien, Dinh Van Ngoc Vietnamese speech command recognition on microcontroller for UGV control.	142 - 150