TABLE OF CONTENTS

01	Le Van Bao, Nguyen Quang Vinh, Pham Cong Tu Direction estimation and tracking of rapidly moving RF emitters.	3 – 12
02	Hoang Duc Long Adaptive observer-based sliding mode control with time-varying learning using Riccati gain synthesis for robotic manipulators.	13 – 23
03	Dao Van Ba, Nguyen Viet Phuong Smooth robust adaptive sliding mode control of 2-DOF helicopter system.	24 – 31
04	Pham Tuan Hung, Nguyen Duc Cuong, Tran Ngoc Binh Improving the impact point accuracy of unpowered flight vehicles under uncertain wind conditions by using parameter-based adaptive control.	32 – 41
05	Le Duy Binh, Hoang The Vu, Pham Van Khuong, Nguyen Van Hung, Dam Duc Trung, Le Van Minh Study on the synthesis of tetraglycidyl 4,4'-diamino-3,3'-chloro-diaminodiphenyl methane and application as an adhesive for flame-retardant cover and solid propellant rod.	42 – 50
06	Mai Van Phuoc, Le Thi Phuong Thao Effect of CeO ₂ and CuO oxide nanoparticles on the nickel electroplating in sulfate solution.	51 – 57
07	Pham Hong Thach, Phu Phuoc Huy, Pham Trung Kien, Tran Van Nguyen, Tran Trong Viet, Ngo Huynh Thi Dinh, Tran Van Khai, Nguyen Nhi Tru Research on enhancing the corrosion resistance of epoxy-modified Fe ₃ O ₄ coating on steel in a 3.5% NaCl environment.	58 – 67
08	Pham Hong Tuan, Nguyen Van Dung, Nguyen Nhat Huy, Le Anh Kien Removal of methyl orange from aqueous solution by heterogeneous Electro-Fenton process using MnFe ₂ O ₄ /C catalyst.	68 – 77
09	Dinh The Dung, Nguyen Tran Hung, Le Huu Thanh, Pham Trung Kien, Vu Tri Thien Research on the fabrication of camouflage coating based on Cr ₂ O ₃ material.	78 – 86
10	Lai Thanh Tuan, Dang Thanh Dat, Nguyen Thai Dung, Nguyen Quang Hiep, Le Van Nhu Design and optimization of axial length in a -1× magnification image-inverting optical system.	87 – 94

11 Ngo The Vinh, Tran Thu Trang

95 - 104

Effect of laser peak power on LIDAR's ability to detect UAVs under changing atmospheric conditions.

12 Nguyen Hung An, Vu Duy Dong

105 - 113

Enhancing the accuracy of rainfall area classification in central Vietnam using machine learning methods.

13 Nguyen Kim Tuan, Hoang Duc Tho, Nguyen Thi Phuong Hang, Pham Van 114 – 125 Quoc, Luu Hong Dung

The quantum-resistant digital signature schemes based on new hard problems.

14 Nguyen Minh Kha, Dao Manh Quyen

126 - 133

Optimization of overhead crane main girder considering deflection constraint using differential evolution.

15 Lai Thanh Tuan, Bui Xuan Tung, Do Ngoc Tien

134 - 144

Investigating the effect of the gap between the throttling ring and the control rod in the hydraulic braking mechanism on the stability of the cannon during firing.

16 Nguyen Trung Thanh, Phan Huy Anh, Nguyen Thi Thu Hong, Pham 145 – 148 Thanh Thuong

Research on the design of a subsystem to connect and control multiple unmanned aerial vehicles simultaneously via the MAVLink protocol.