

**Table of Contents**

1. A study on settlements of road embankments on soft ground using vertical drains <i>Trinh Dinh Toan</i>	1477
2. Seismic analysis of a soil-liquid tank system using the two-step method <i>Huynh Van Quan</i>	1489
3. Development of an artificial neural network based-prediction model for bond strength of FRP bars in concrete <i>Huynh Phuong Nam, Tran Le Anh Duc, Phan Hoang Nam, Nguyen Minh Hai, Phan Da Thao</i>	1502
4. Rehabilitation of reinforced concrete slab using ultra high-performance concrete and fiber reinforced polymer <i>Hoang Viet Hai, Nguyen Hoang Quan</i>	1518
5. Nonlinear interfacial contact laws in multi-layer elastic-viscoelastic structural systems <i>Tran Nam Hung, Nguyen Thi Thu Nga</i>	1529
6. A study on the capacity assessment of turbo roundabouts and the applicability in Vietnam <i>Nguyen Van Hung, Dang Minh Tan</i>	1544
7. A case study on scenario-based optimization for axle load survey data selection for flexible pavement design in Vietnam <i>Le Xuan Quy, Chu Tien Dung, Vu Tuan Anh</i>	1555
8. Validation of stamper device to measure international roughness index IRI <i>Phan Thi Thu Hien, Nguyen Thi Hong Hanh, Pham Hoang Kien</i>	1567
9. Performance evaluation of bus stops on arterial roads in Hanoi city <i>Tran Khac Duong</i>	1581
10. Real-time estimation of vehicle inertia parameters based on Kalman-bucy filter <i>Nguyen Tuan Anh</i>	1593
11. Enhanced-GA supports traffic signal optimizations and protects the urban environment <i>Do Van Manh, Tran Quang Hoc, Le Khanh Giang, Tran Duc Cong, Vu Ngoc Phuong</i>	1604
12. Prediction of machining performances in powder mixed electro-discharge machining to process skd61 steel by response surface methodology <i>Van Tao Le, Tien Long Banh, Thi Hong Minh Nguyen, Tien Dung Hoang, Van Thuc Dang, Hoang Cuong Phan</i>	1617
13. What push students to use motorcycles? A study based on some universities in Hanoi, Vietnam	1631

*Thuy Linh Le, Thanh Chuong Nguyen*

14. Implement quantum random number generation on the IBM quantum computer platform 1644

*Nhu Quynh Luc, Van Anh Le*

15. Lane detection using hough transformation and Yolov8 1659

*Nguyen Viet Bach, Pham Xuan Tung*

16. Applying a two-step cluster algorithm in traffic accident data analysis 1673

*Khanh Giang Le, Ho Thi Lan Huong, Van Manh Do, Quang Hoc Tran*

17. Study on the applicability of free water surface wetland (fws) scale of wastewater treatment laboratory for green rest stops 1688

*Vu Kim Hanh, Vu Phuong Thao*

18. Applications of satellite data for rapid inundation assessment - A case study in Thua Thien Hue province 1697

*Hoang Nam Binh, Le Van Nghi, Hoang Vu Huy*