Table of Contents

1. An optimization-based approach for static analysis of multi-segment mooring lines with clump weights 1128

Quoc Hoan Pham

2. Timing bottleneck characterization in an iterative Keccak-f[1600]/SHA3-256 core: An FPGA/ASIC study 1138

Nguyen Thanh Ngoc, Nguyen Dac Khiem, Doan Duc Duy, Tran Trong Hieu, Nguyen Anh Tai, Chu Thi Ngoc Quynh

3. A new approach to equilibrium problems via regularized extragradient-type dynamics 1155

Nguyen Hai Ha

4. Comparative flexural performance of primitive, diamond, and gyroid TPMS concrete beams 1170

Tran Anh Tuan, Hoang Viet Hai, Nguyen Hoang Quan, Tran Thi Bich Thao, Tran Bao Viet

5. A probabilistic machine learning framework of flutter critical wind velocity prediction for cable-stayed bridges based on a calibrated finite element model 1185

Ho Xuan Nam, Nguyen Ngoc Lan

6. Vibration dynamics of a dependent suspension system of half-car model with tire-road separation 1198

Nguyen Dang Quy, Do Van Tu, Le Van Trung, Lai Viet Anh, Nguyen Dinh Tung, Le Xuan Long, Le Van Manh

7. Multi-response optimization in cold metal transfer wire arc additive manufacturing of Inconel 718 thin walls 1211

Van Thao Le, Chi Tinh Phung, Manh Tung Do, Dinh Si Mai, Van Son Nguyen, Ba Tinh Do, Manh Cuong Bui, Tat Khoa Doan

8. Electro-thermoelastic vibration of functionally graded porous sandwich plates with piezoelectric and stiffened layers 1226

Van-Tham Vu

9. Comparative assessment of hydration-heat characteristics and early-age thermal cracking potential of high-strength mass concrete containing fly ash and silica fume 1243

Tuyet Thi Hoang, Tu Anh Do, Viet Hai Hoang, Duc Chinh Ngo

10. Unsupervised learning for structural health monitoring: A multi-station GNSS-RTK approach for operational state detection in cable-stayed bridges 1259

Tran Duc Cong, Le Khanh Giang, Ho Thi Lan Huong

11. CFD-based investigation of temporal clear-water local scour around a cylindrical bridge pier using REEF3D 1275

Mai Quang Huy, Nguyen Dang Phong

12. Pattern-aware floor-tile layout optimization and schedule-constrained off-cut reuse in multi-room buildings 1291

Nguyen Thi Thu Hao, Vo Le Ngoc Dien, Doan Dinh Thien Vuong