## JOURNAL OF THE CHINESE INSTITUTE OF ENGINEERS

Optimization design of tendon-driven manipulators with high fault tolerance

## Volume 35 Number 4 June 2012

Jinn-Biau Sheu and Jyh-Jone Lee

CONTENTS	***************************************
An efficient SVDD-base boundary method for multiclass classification problems Shu-Mei Guo, Li-Chun Chen and Jia-Pei Huang	379
On the security of several Gen2-based protocols without modifying the standards Chin-Feng Lee, Hung-Yu Chien, Chi-Sung Laih and Chi-Sheng Chen	391
The application of decision tree and artificial neural network to income tax audit: the examples of profit-seeking enterprise income tax and individual income tax in Taiwan Chi-Hung Lin, I-Chun Lin, Ching-Huei Wu, Ya-Ching Yang and Jinsheng Roan	401
Optimal single input PID-type fuzzy logic controller Shih-Chih Lee and Ching-Long Shih	413
A practical framework for applying effects of various lamps on IEC flickermeter and evaluating results in a welding system  Payman Moallem, Abalfazl Zargari and Arash Kiyoumarsi	421
The modified wrap-around Viterbi algorithm for convolutional tail-biting codes Yunghsiang S. Han, Ting-Yi Wu, Hung-Ta Pai and Po-Ning Chen	431
The study of the relationship between IRI and 3m-straightedge acceptance specification Chen-Yu Tsai, Chia-Pei Chou and Ai-Chin Chen	439
Seismic risk assessment for steel framed buildings Chien-Kuo Chiu and Heui-Yung Chang	449
Influence of heat loss, preferential diffusion, and stretch on a conical flame in an impinging jet flow Shuhn-Shyurng Hou, Wei-Dong Hsieh and Ta-Hui Lin	461
Interactive image tools for autonomous spelling robot Chyi-Yeu Lin, Po-Chia Jo, Chia-Lun Hsueh and Chang-Kuo Tseng	473



493