

# International Journal of Electrical and Electronic Engineering & Telecommunications

## CONTENTS

---

---

### Volume 7, Number 1, January 2018

- Feasibility of Continues Operation of Photovoltaic Systems with Energy Storage during Grid Outages..... 1  
*Ace Lin Yi Khaw, Yun Seng Lim, and Jianhui Wong*
- Smart Grid Communication Infrastructure Comparison–For Distributed Control of Distributed Energy Resources Using Internet of Things Devices.....7  
*Bo Petersen, Henrik Bindner, Bjarne Poulsen, and Shi You*
- Torque and Ripple Analyses of a Small BLDC Motor for a Surgical Device ..... 15  
*Cheol Kim and Mingzhe Li*
- Cooling Fan Model for Thermal Design of Compact Electronic Equipment Modeling of Swirl Flow at the Exit of Axial-Flow-Fan.....21  
*Hajime Nakamura*
- Heuristic Method for Calculation of Human Body Translation Using Data from Inertial Motion Capture Costume .....26  
*Tomasz Hachaj and Marek R. Ogiela*
- Real-Time Microscopic Traffic Simulation and Optimization at Intersections with Video Traffic Detection .....30  
*Zijun Liang, Yun-Pang Fläter äd, Hong Chen, Alexander Sohr, Xiaoxu Bei, Maximiliano Bottazzi, and Jan Trumpold*