SĀDHANĀ

Volume 40

Number 5 (205)



2015

Electrical and Computer Science

- 1385 Nitin Kumar Dhiman · Dipti Deodhare · Deepak Khemani
 Where am 1? Creating spatial awareness in unmanned ground robots using
 SLAM: A survey
- 1435 Smita Naval · Vijay Laxmi · Manoj Singh Gaur · Vinod P
 An efficient block-discriminant identification of packed malware
- 1457 T V Dixit · Anamika Yadav · S Gupta
 Optimization of PV array inclination in India using ANN estimator:
 Method comparison study
- 1473 **B Lakehal** · **Z Dibi** · **N Lakhdar** · **A Dendouga**Electrical equivalent model of intermediate band solar cell using PSpice
- 1481 Anirban Ghoshal · Vinod John
 A controller design method for 3 phase 4 wire grid connected VSI with LCL filter
- 1501 Gopalakrishnan K S · G Narayanan

 Harmonic analysis of DC capacitor current in sinusoidal and space-vector modulated neutral-point-clamped inverters

Mechanical Sciences

- Mohd Ariffanan Mohd Basri · Abdul Rashid Husain · Kumeresan A Danapalasingam
 Stabilization and trajectory tracking control for underactuated quadrotor helicopter subject to wind-gust disturbance
- 1555 P I Jagad · B P Puranik · A W Date
 A novel concept of measuring mass flow rates using flow induced stresses

(continued on inside back cover)

Indexed in: Current Contents

Edited and published by R Ramaswamy for the Indian Academy of Sciences, Bangalore 560 080.

Printed at Brilliant Printers Pvt. Ltd, Bangalore 560 094.

Registered with Registrar of Newspapers in India, vide Regn No. 13242/57

- 1567 Zahari Taha · Mohd Hasnun Arif Hassan · Iskandar Hasanuddin Analytical modelling of soccer heading
- 1579 K Balaji Rao · M B Anoop · S Muralidhara · B K Raghu Prasad Handling large variations in mechanics: Some applications
- 1595 **PK Sharma** Teodrose Atnafu Abgaze Solute transport through porous media using asymptotic dispersivity
- 1611 **Hesheng Tang · Yu Su · Jiao Wang**Evidence theory and differential evolution based uncertainty quantification for buckling load of semi-rigid jointed frames
- 1629 P Jagadesh · A Ramachandramurthy · R Murugesan · K Sarayu Micro-analytical studies on sugar cane bagasse ash
- 1639 Amit Handa · Vikas Chawla
 Evaluation of tensile strength and fracture behavior of friction welded dissimilar steels under different rotational speeds and axial pressures
- 1657 N Anu · S Rangabhashiyam · Rahul Antony · N Selvaraju
 Optimization of wind speed on dispersion of pollutants using coupled receptor and dispersion model
- 1667 S N Khan R M Warkhedkar A K Shyam

 Analysis of bone mineral density of human bones for strength evaluation