



DOCTORAL PROGRAM OF ENGINEERING SCIENCE  
FACULTY OF ENGINEERING, UDAYANA UNIVERSITY

## INTERNATIONAL JOURNAL OF ENGINEERING AND EMERGING TECHNOLOGY

# IJEET



## **INTERNATIONAL JOURNAL OF ENGINEERING AND EMERGING TECHNOLOGY**

This journal is the biannual official publication of the Doctorate Program of Engineering Science, Faculty of Engineering, Udayana University. The journal is open to submission from scholars and experts in the wide areas of engineering, such as civil and construction, mechanical, architecture, electrical, electronic, and computer engineering, and information technology as well. The scope of these areas may encompass: (1) theory, methodology, practice, and applications; (2) analysis, design, development and evaluation; and (3) scientific and technical support to establishment of technical standards.

# INTERNATIONAL JOURNAL OF ENGINEERING AND EMERGING TECHNOLOGY

## *Head of Advisory*

Dean of Faculty of Engineering

## *Advisory Board*

Prof Ir. I Nyoman Arya Thanaya, ME, PhD.

Prof. Ir. I Wayan Surata, M.Erg.

Prof. Ir. I Nyoman Suprpta Winaya, M.A.Sc., PhD.

Dr. Ir. Ida Bagus Alit Swamardika, M.Erg

## *Editor-in-Chief*

Dr. Ir. Made Sudarma, M.A.Sc.

## *Managing Editor*

Komang Oka Saputra, ST., MT., PhD.

## *Editorial Board*

Dr. I Nyoman Putra Sastra, ST., MT.

Dr. I B Manuaba, ST., MT

Dr. Ngakan Ketut Acwin Dwijendra ST., MSc.

DM Priyantha Wedagama, ST, MT, MSc, PhD

Dr. Ir. I Made Adhika, MSP

## *Reviewers*

Prof. Dr. Leming Chen (China)

Prof. Dr. Animesh Dutta (Bangladesh)

Prof. Dr. Bale Reddy (Canada)

Prof. Dr. Kunio Kondo (Japan)

Dr. Eunice Sari (Australia)

Prof. Dr. I Ketut Gede Darma Putra, S.Kom., MT. (Indonesia)

Dr.Eng Bayupati, ST., MT. (Indonesia)

Prof. Ir. I.A. Dwi Giriantari, MEngSc., PhD. (Indonesia)

Ir. Linawati, MEngSc., PhD. (Indonesia)

Prof.Dr. Ir. I Wayan Surata, M.Erg. (Indonesia)

Ainul Ghurri, ST., MT., PhD. (Indonesia)

Prof. Ir. I Nyoman Arya Thanaya, ME., PhD. (Indonesia)

D.M. Priyantha Wedagama, ST., MT., MSc., PhD. (Indonesia)

Dr. Ngakan Ketut Acwin Dwijendra. ST., MA. (Indonesia)

Dr. Gusti Ayu Made Suartika, ST., MEngSc. (Indonesia)

# International Journal of

# ENGINEERING AND EMERGING TECHNOLOGY

*A publication of the Doctorate Program of Engineering Science Udayana University*

JULY--DECEMBER 2019      VOLUME 4      NUMBER 2      (P-ISSN 2579-5988, E-ISSN: 2579-597X)

---

## A Conflict of Interest In Green Open Space Planning in Denpasar City

*I Ketut Mudra, Ni Ketut Ayu Siwalatri* ..... 1—10

## Vertical Housing Development, on Control Regional Bali Regulation of Building Height

*Ni Luh Putu Dessy Dharmayanty, Syamsul Alam Paturusi, Ngakan Ketut Acwin Dwijendra,  
Ni Ketut Agusinta Dewi* ..... 11—15

## Student Perception of Thermal Comfort of Outdoor Space in Nusa Nipa University, Maumere, East Nusa Tenggara

*Cornelia Hildegardis, Anak Agung Ayu Oka Saraswati, I Dewa Gede Agung Diasana and Ni Ketut Agusinta Dewi* ..... 16—19

## Urban Identity From the Perspective of Urban Atmosphere Case Study : Klungkung, Bali, Indonesia

*I Made Agus Mahendra, Syamsul Alam Paturusi, Ngakan Ketut Acwin Dwijendra,  
I Dewa Gede Agung Diasana Putra* ..... 25—30

## Boundary Value Analysis Testing Techniques on Learning Management System Applications

*I Putu Astya Prayudha, Rukmi Sari Hartani, Yoga Divayana* ..... 31—34

## Bed Bunk Accommodation; Convergence of Online Promotion Media with Balinese Traditional Houses in Cangu Village, Bali

*Ni Putu Suda Nurjani, Syamsul Alam Paturusi, Ngakan Ketut Acwin Dwijendra I Dewa Gede Agung Diasana Putra*..... 35—41

## Innovation in Modelling of Flood-Friendly Housing Design With Approaching of Sundanese Traditional Architecture (Case Study: Baleendah Sub-District, Bandung District, West Java-Indonesia)

*Nuryanto, Dadang Ahdiat, R. Irawan Surasetja* ..... 42—49

Effect of Alkali Treatment on The Tensile Strength of Lidah Mertua Fiber/Polypropylene Recycled Biocomposite

*IP Lokantara, NPG Suardana, IW Surata and INS Winaya* .....50—55

Model of Group Peer Assessment on E-Learning

*Komang Oka Saputra, Putu Arya Mertasana, Pratolo Rahardjo* .....56—59

Implementation of Association Rules to Manage Cross-Selling and Up-Selling for IT Shop

*I Wayan Andis Indrawan, Komang Oka Saputra and Linawati*.....60—63

### **Special Section on Engineering**

Deconstruction of Mandala's Puri Agung Karangasem

*Agus Kurniawan, P Rumawan Salain, N K Acwin Dwijendra and I G N Anom Rajendra*.....20—24

# INTERNATIONAL JOURNAL OF ENGINEERING AND EMERGING TECHNOLOGY

# IJEET

International Journal of Engineering and Emerging Technology is the biannual official publication of the Doctorate Program of Engineering Science, Faculty of Engineering, Udayana University. The journal is open to submission from scholars and experts in the wide areas of engineering, such as civil and construction, mechanical, architecture, electrical, electronic, and computer engineering, and information technology as well.

The scope of these areas may encompass :

- ▶ Theory, methodology, practice, and applications
- ▶ Analysis, design, development and evaluation
- ▶ Scientific and technical support to establishment of technical standards.



DOCTORAL PROGRAM OF ENGINEERING SCIENCE  
FACULTY OF ENGINEERING, UDAYANA UNIVERSITY

p-ISSN : 2579-5988 e-ISSN : 2579-597X

