

# Lecture Notes on Information Theory

## CONTENTS

---

### Volume 5, Number 1, June 2017

#### Data Theory and Applications

Extracting Basic Fighter Maneuvers from Actual Flight Data.....1  
*Mustafa Karli, Mehmet Önder Efe, and Hayri Sever*

A Comprehensive Analysis of Architectures and Methods of Real-Time Big Data Analytics .....7  
*Sinan AY and M. Ali Akçayol*

Data Collection System Using Smart Device Databases and a Hash Chain Protocol .....13  
*Lei Tong and Hiromi Kobayashi*

#### Computer Science and Information Technology

Piecewise Union Blend with Adjustable Primitive's Subsequent Blend Range Parameters in Constructive Geometry  
.....17  
*Pi-Chung Hsu*

Empiric Experiments with Text Representing Centroids.....23  
*Mario Kubek, Thomas Böhme, and Herwig Unger*

A Design Rationale Model for Green Human Computer Interaction Design .....29  
*Abdulmajid Hissen Mohamed, Abdulsalam Mansour Alshrief, and Mabrouka Ali Jelban*

An Algorithm for Computing All Minimal Inconsistent Subsets in Description Logic.....34  
*Liang Dong, Jie Luo, and Huiyuan Xie*

A Parallel-and-Interactive Scheme for the Parameter Estimation of Michaelis-Menten Biological Systems .....39  
*Shing-Jen Wu and Anh-Tuan Ngo*

#### Wireless Communications and Network Applications

Analyses of Energy-Aware Geographic Routing Protocols for Wireless Sensor Networks .....44  
*Khaled Hadi*