

# Table of Contents

## Proceedings of 2018 International Conference on Computing and Big Data (ICCBD 2018)

Preface.....	v
Conference Committees.....	vi
• <b><i>Session 1- Data Science and Big Data Technology</i></b>	
Less is More: With a 280-character limit, Twitter Provides a Valuable Source for Detecting Self-reported Flu Cases 1 <i>Sultanah M. Alshammari and Rodney D. Nielsen</i>	
Content-Based Textual Big Data Analysis and Compression ..... 7 <i>Fei Gao, Ananya Dutta and Jiangjiang Liu</i>	7
Trafico CDMX System: Using Big Data to improve the Mobility in Mexico City ..... 13 <i>Adriana Pérez-Espinosa, Araceli L. Reyes-Cabello, José Luis Quiroz-Fabián and Emilio Bravo-Grajales</i>	13
Cricket World Cup Predictions Using KNN Intelligent Bigdata Approach ..... 18 <i>Abdurazzag A Aburas, Muhammed Mehtab and Yusuf Mehtab</i>	18
3D Parallel Coordinates for Multidimensional Data Cube Exploration..... 23 <i>Safaa Alwajidi and Li Yang</i>	23
Performance Analysis Using Apriori Algorithm Along with Spark and Python ..... 28 <i>Fei Gao, Chandrima Bhowmick and Jiangjiang Liu</i>	28
Feature-based Restaurant Customer Reviews Process Model using Data Mining..... 32 <i>Anish Kumar Varudharajulu and Yongsheng Ma</i>	32
Database Construction and SPC Technology for Solder Paste Defect Inspection ..... 38 <i>Min Qi, Xin Chang, Yuelei Xu and Lechi Zhang</i>	38
• <b><i>Session 2- Machine Learning and Calculation</i></b>	
Twitter Query Expansion via Word2Vec-Urban Dictionary Model ..... 43 <i>Jason Turner and Mehmed Kantardzic</i>	43
Execution Time Prediction for Apache Spark ..... 47	47

<i>Zhipeng Gao, Ting Wang, Qian Wang and Yang Yang</i>	
DzGAN: Improved Conditional Generative Adversarial Nets Using Divided Z-Vector.....	52
<i>Hideki Tsunashima, Taisei Hoshi and Qiu Chen</i>	
Sarcasm Detection on Flickr Using a CNN.....	56
<i>Dipto Das and Anthony J. Clark</i>	
<b>• Session 3-Computer Theory and Application</b>	
Stable Stock Market Prediction Using NARX Algorithm.....	62
<i>Enas Alkhoshi and Saeid Belkasim</i>	
Multiclass Brain Tumor Classification using Region Growing based Tumor Segmentation and Ensemble Wavelet Features .....	67
<i>Ghazanfar Latif, D.N.F. Awang Iskandar and Jaafar Alghazo</i>	
Examining University Ranking Metrics: Articulating Issues of Size and Web Dependency .....	73
<i>Izzat Alsmadi and Zachary Taylor</i>	
A Ubiquitous Approach for Automated Library Book Location Management .....	78
<i>Hanh Pham, Anthony Giordano, Lee Miller, Joseph Giannitti, Mario Mena and Anthony DiNardi</i>	
Traffic Volume Prediction on Busy Road Junctions.....	83
<i>Yubo Wang, Ningwei Xu, Kaiyu Wang, Xiangru Li and Lintao Mu</i>	
An Overview of the Julia Programming Language.....	87
<i>Tyler A Cabutto, Sean P Heeney, Shaun V Ault, Guifen Mao and Jin Wang</i>	
A Systematic Review on Social Network Analysis – Tools, Algorithms and Frameworks.....	92
<i>Wajeaha Aslam, Wasi Haider Butt and Muhammad Waseem Anwar</i>	