

Students and Lightning Talks Session

Wassapon Watanakeesuntorn

on behalf of the PRAGMA Students Steering Committee

The 35th PRAGMA Students Session, Penang, Malaysia

Oct. 4th 2018



Introduction to PRAGMA Students

- **Background**
 - PRAGMA22 launched a discussion of how to engage graduate students more actively in PRAGMA.
 - The PRAGMA student group was formed in 2012 to shape and grow the **opportunities for students** that are inherent in PRAGMA's long-lived trusted social network, and strong breadth of technical expertise.



Introduction to PRAGMA Students

- **Goal**
 - Develop technically knowledgeable, culturally inclusive, and interdisciplinary scientists capable of leading global research.
- **Opportunities**
 - Provided **Education and mentoring**
 - Generate its own **network** and be a vehicle for **leadership** opportunity
 - Infuse **new ideas** to PRAGMA and discuss with experies



Recently Graduated PRAGMA Student



- Giljae Lee
 - Staff Member at UF Information Technology

Current PRAGMA Students



- Wassapon Watanakeesuntorn
 - Nara Institute of Science and Technology, Japan



- Can Wu
 - Chinese Academy of Sciences, China



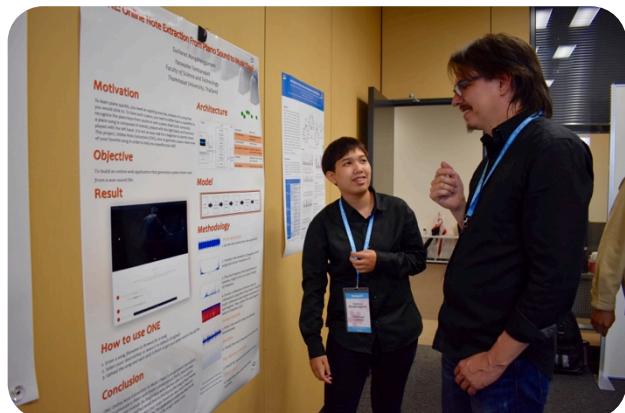
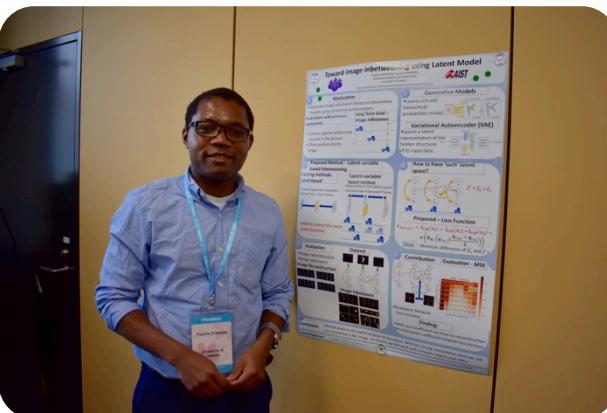
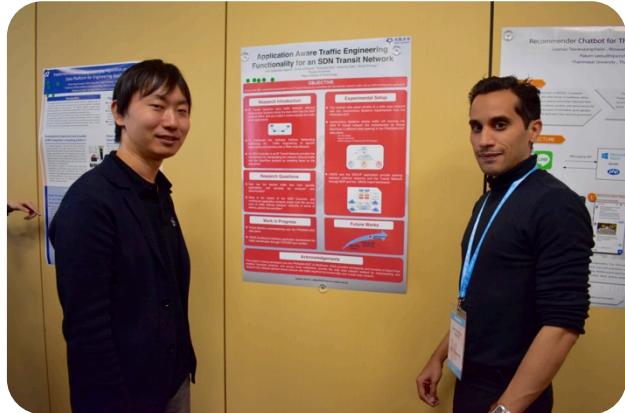
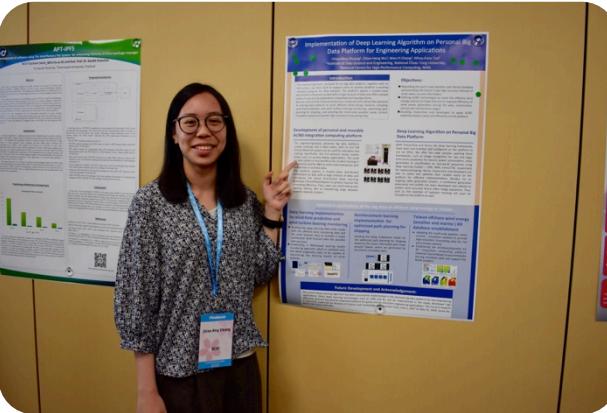
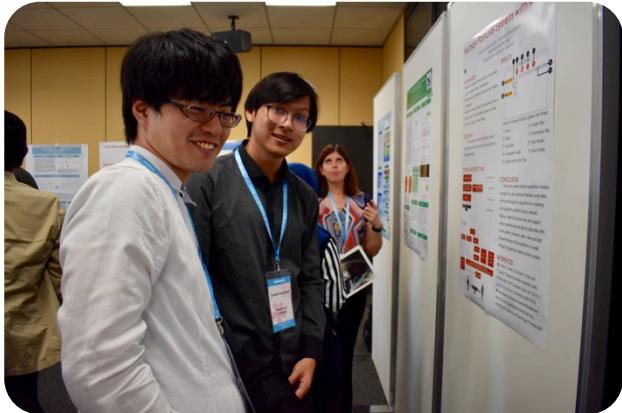
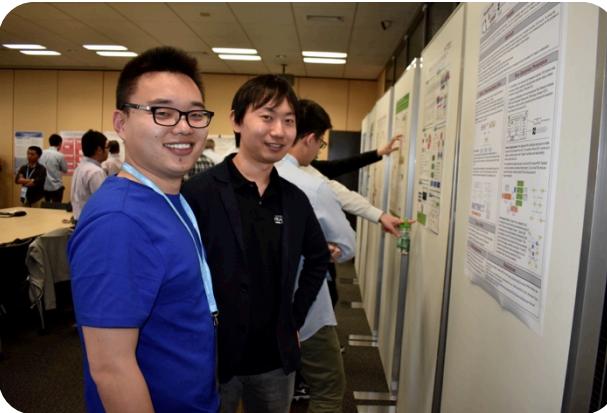
- Chiao-Ning Chuang
 - National Chiao-Tung University, Taiwan

PRAGMA Students Activities

- Student Workshop
 - Student Presentation Session
 - Lightning Talks Session
 - Poster Session
- Networking with students
- Support student event



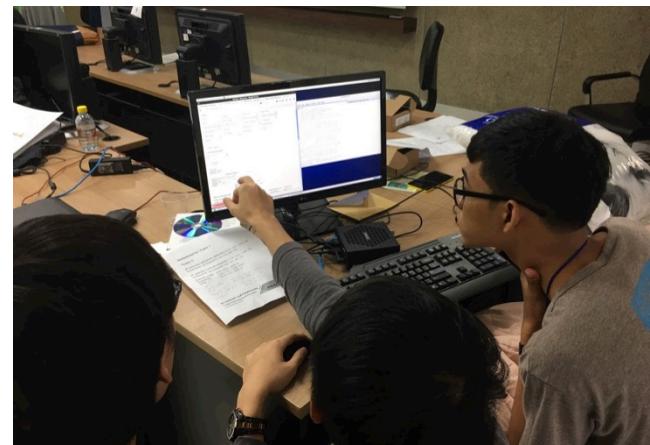
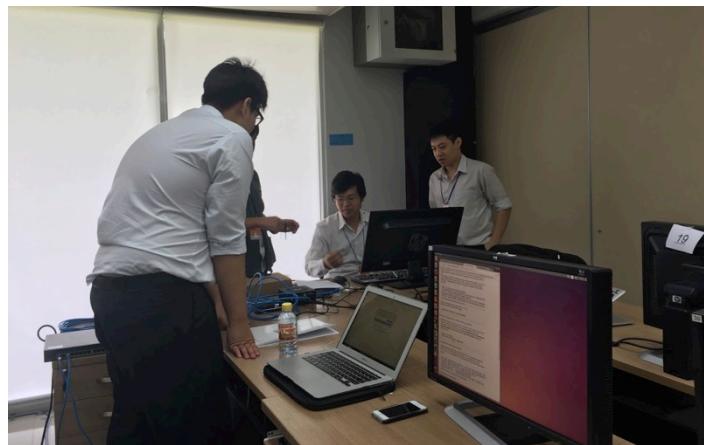
Poster Session



Student Presentation Session



Student Hackathon



PRAGMA 31, Bangkok, Thailand

Community trips/events



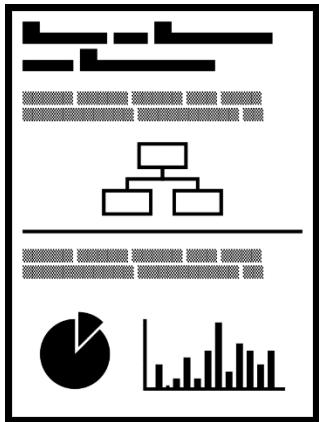
PRAGMA 24, Bangkok, Thailand



PRAGMA 26, Tainan, Taiwan

PRAGMA 28, Nara, Japan

Student Activity Overview @ PRAGMA35



Poster
(25 Posters)



Lightning Talks
(23 Presenters)



Presentation
(9 Presenters)

Poster Submission

	Name	Title
1	Muhammad Reza Aditya	Mobile-based Augmented Reality for Sundanese Alphabets Education
2	Andi Batari Ahmad	Deep Learning Classification for Liver Disease
3	Widya Dwi Aryati	Application of Deep Learning and Fingerprint Modeling Methods to Predict Cannabinoid and Cathinone Derivatives
4	Manassanan Boonnavasin	Building Smart City Datasets with Crowdsourcing for Safe Direction in Bangkok, Thailand
5	Thitiwut Chamornmarn	A Network Performance Measurement in a Low-Cost Containerized Cluster System
6	Dawit Chusettthagarn	A Prototype of Collaborative Augment Reality Environment for HoloLens
7	Andi Rasuna Dharsono	Analysis of Load Balancing Performance on Cluster Computing with Proxmox VE
8	Aditya Efrian	Performance Comparison of Load Balancing using Honeybee and Threshold Algorithm
9	Michael Elliott	Data-centric Modeling of Gainesville Businesses
10	Toto Haryanto	Performance Analysis of GTX 980 GPU on Colon Histopathology Images Training Based on Convolutional Neural Network

Poster Submission

	Name	Title
11	Brian Hogantara	Dengue Hemorrhagic Fever Disease Data Clustering Based on Interactive Map in Special Region Jakarta Capital
12	Muhammad Jaziem Bin Mohamed Javeed	Curating Target-Activity Information for NADI Compounds Based on CHEMBL Using Similarity Searching and Pattern Matching
13	Jidapa Kongsakoonwong	Design AR application using the tiled display walls
14	Pravin Kumar	Decision Support System based on Interactive Map of Measles and Rubella Data in Jakarta
15	Amy Wing-Sze Leung	RNA-seq transcriptome profiling of Desmos chinensis: revealing the molecular basis of petal evolution in the custard apple family Annonaceae
16	Chun-Ho Liu	Computational Fluid Dynamics Study of Wind Environment in Urban Areas
17	Jarernsri Mitrpanont	Enhancing MedThaiSAGE: Decision Support System using Rich Visualization on SAGE 2
18	Nuraisah	Tuberculosis (TB) Disease Interactive Map in Jakarta Capital Special Region
19	Prakritchai Phanphila	Digital Poster Management application on a SAGE2-based Multiple Display system
20	Parintorn Pooyoi	Machine learning for processing image data for disaster management

Poster Submission

	Name	Title
21	Ahmad Sabiq	Room Auto Controlling Based on Occupant Body Condition Using Arduino and Raspberry Pi
22	Saravanan Sagadevan	Criminality Linguistics Detection on Social Networks Through Personality Traits
23	Ridho Yanevan Pratama	Performance Comparison of Dynamic Load Balancing Algorithm for Indonesian e-Health Cloud
24	Wassapon Watanakeesuntorn	rEDM Code Acceleration with ABCI Supercomputer
25	Ming-Der Yang	Using UAV images for smart agriculture to monitor rice paddy with artificial intelligence



Sessions

- Student Presentation Session
 - 14:00~16:40, 3rd Oct. 2018
- Lightning Talks Session
 - 15:00~15:30, 4th Oct. 2018
- Poster Session
 - 15:30~16:30, 4th Oct. 2018
- Award Session
 - 16:45~17:00, 5th Oct. 2018



Poster Voting

- There will be 3 awards for best 3 posters
- Please vote for your favorite poster
 - Paste a sticker on the poster



Lightning Talks Session



Lightning Talks

	Presenter	Title
1	Wassapon Watanakeesuntorn	rEDM Code Acceleration with ABCI Supercomputer
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Lightning Talks

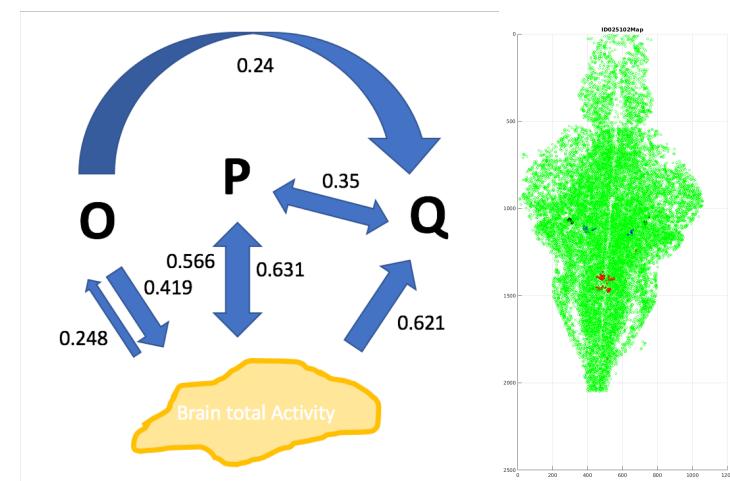
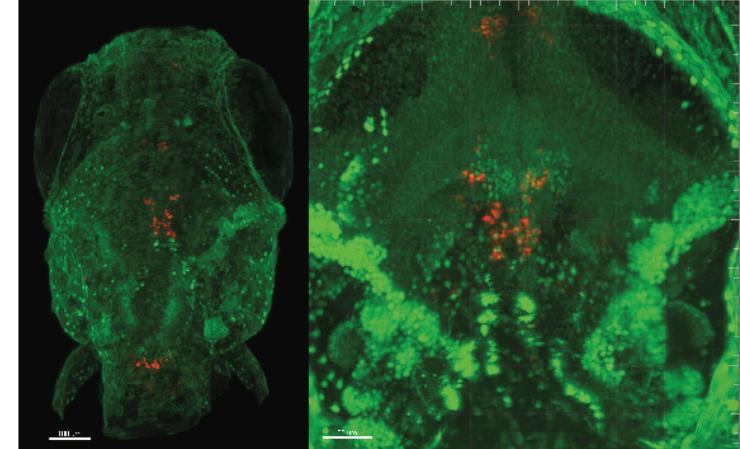
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rEDM Code Acceleration with ABCI Supercomputer

Wassapon Watanakesuntorn, Kohei Ichikawa, Jason Haga, Gerald Pao, Erik Saberski

⚓ Introduction & Approaches

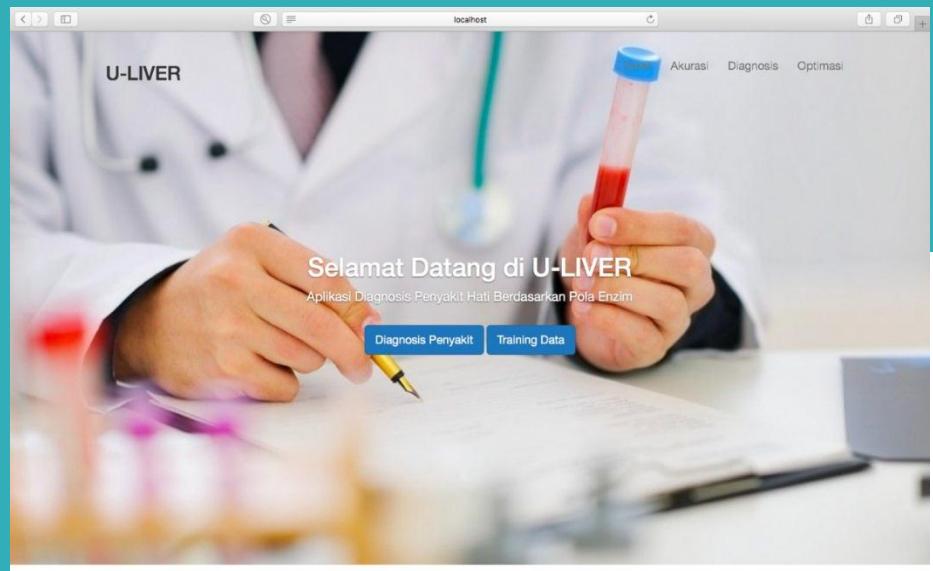
- “Zebrafish Neural Activity Maps for Novel Neuromorphic Deep Learning Architectures” from UC San Diego
 - Salk Institute collects and analyzes Zebrafish neural activity for use with Convergent Cross Mapping (CCM) from empirical dynamical modeling (EDM)
 - Find the relationships within the neural activity network of the fish brain
 - Uses rEDM package to calculate the CCM
- Run the CCM calculations with the zebrafish brain datasets on the ABCI supercomputer.
- Collaboration project between NAIST, AIST, and UCSD



U-Liver Solution

Andi Batari Ahmad, S.Kom., Nova Eka Diana, S.Kom., M.Eng.

Accuracy rate of 95.06%



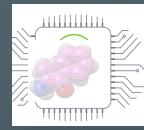
APPLICATION OF DEEP LEARNING AND FINGERPRINT MODELING METHODS TO PREDICT CANNABINOID AND CATHINONE DERIVATIVES



Pharmacophore
modeling



Fingerprint
modeling



Descriptor
Deep Learning



Pharmacophore
modeling

CATHINONE DERIVATIVES

CANNABINOID DERIVATIVES



HAPPY MAP



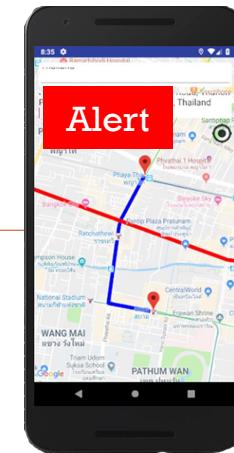
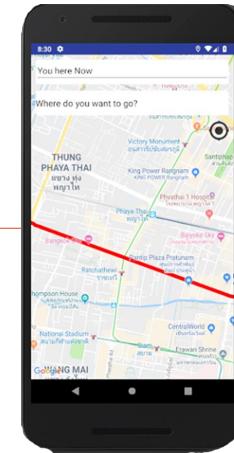
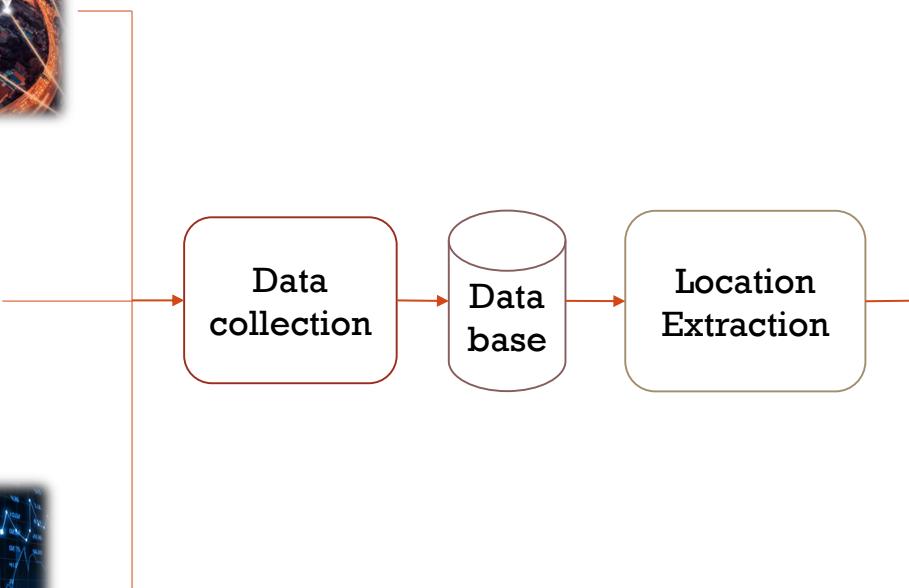
Crowdsourcing



News



Official Document



Video Presentation

PRAGMA 35





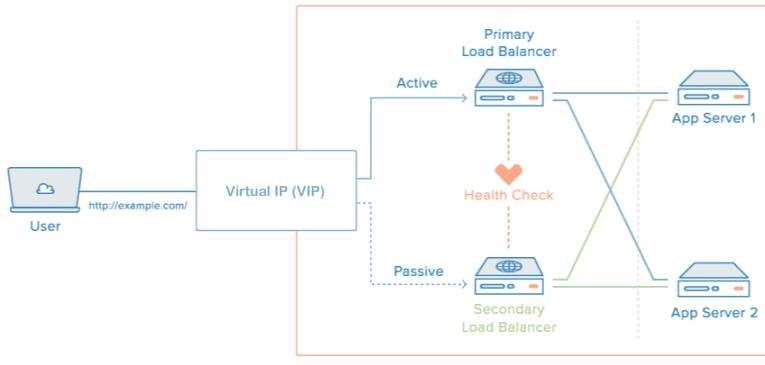
ANALYSIS OF LOAD BALANCING PERFORMANCE ON CLUSTER COMPUTING WITH PROXMOX VE

ANDI R. DARSONO¹, SRI CHUSRI HARYANTI²

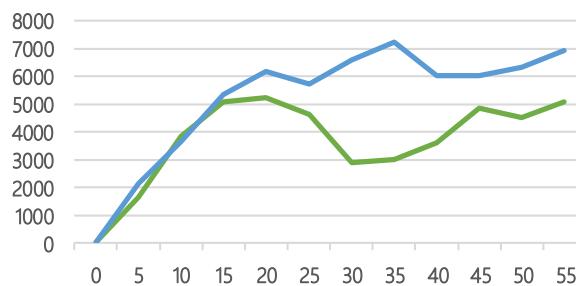
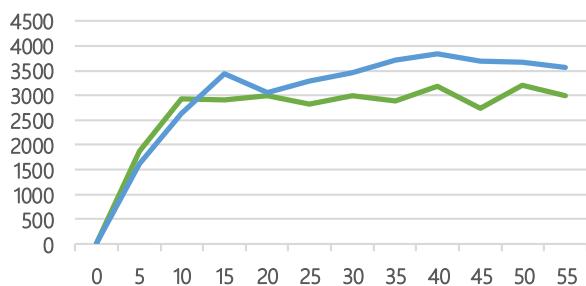
Faculty of Information Technology, Universitas Yarsi



Host	CPU Octa Core @ 2.5 GHz Memory 4 GB DDR3 Storage 300 GB (IDE) Operating System Proxmox VE 4.1 Network Adapter 1: Custom (PNet-FAST III)
Guest	CPU Single Core @ 2.5 GHz Memory 4 GB DDR3 Storage 50 GB (Local-LVM) Operating System CentOS 6.0 Final (386-minimal) Network Adapter 1-4 : Bridge (vmbus) ipvsadm (Piranha) LAMP (Linux-Apache-MySQL-PHP)
User	CPU Octa Core @ 1.9 GHz Memory 8 GB DDR3 Storage 500 GB Operating System Windows 10 Network Adapter: VB Ethernet Adapter WebServer Stress Tool 8 Net Uptime Monitor



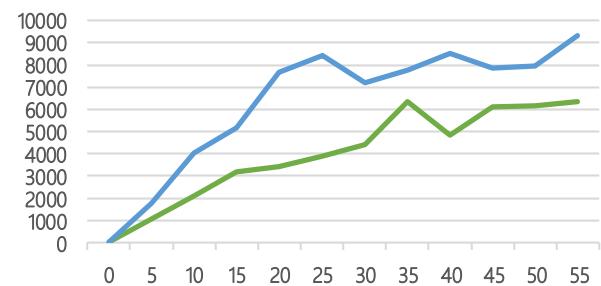
- ① Active/Passive Cluster is healthy
- ② Primary node fails
- ③ Floating IP is assigned to Secondary node



Server Load Balancing Cluster can be implemented using LVS topology via Direct Routing On Proxmox VE. Proxmox VE devides virtual server resources into several virtual environments that are node/guest.

Load balancer system with round-robin algorithm gets maximum average response time of up to 4165 ms with a percentage of 0% on packet loss, while in a single server up to 7269 ms with a value of 22.48% for packet loss.

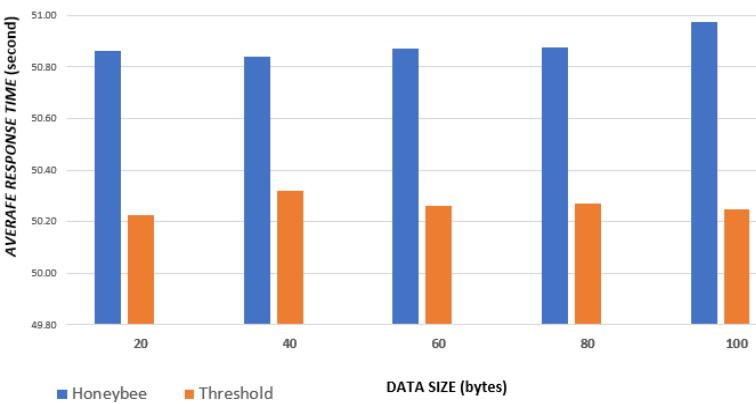
To increase server availability, the system load balancing cluster manages to failover with an average value of downtime obtained at 16.6 second.



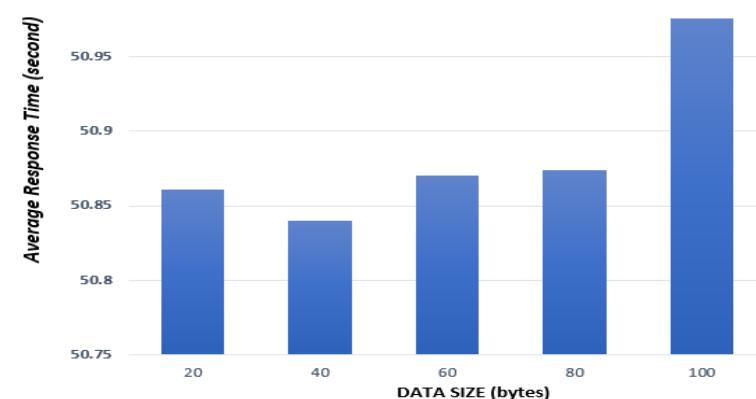
Failover	1	2	3	4	5	6	7	8	9	10
Downtime	16s	17s	17s	19s	16s	13s	18s	19s	17s	14s

Comparison of Load Balancing Performance in Cloud Computing Using Honeybee And Threshold Algorithm

Aditya Efrian, Sri Chusri Haryanti, Sri Puji Utami Atmoko, Ridho Yanevan Pratama
Faculty of Information Technology, Universitas YARSI, Indonesia



Comparison of Average Response Time from Two Algorithm with Optimize Response Time



Comparison of Average Response Time with Different Data Size using Honeybee Algorithm

Load balancing is very crucial for the cloud.

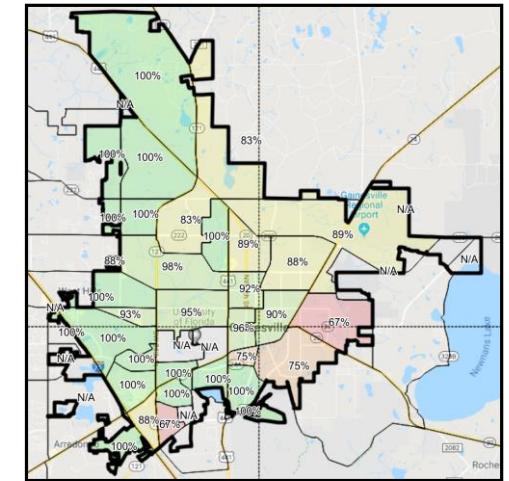
We study Honeybee and Threshold algorithms for balancing load in the cloud using CloudAnalyst simulator.

Data-centric Modeling of Gainesville Businesses

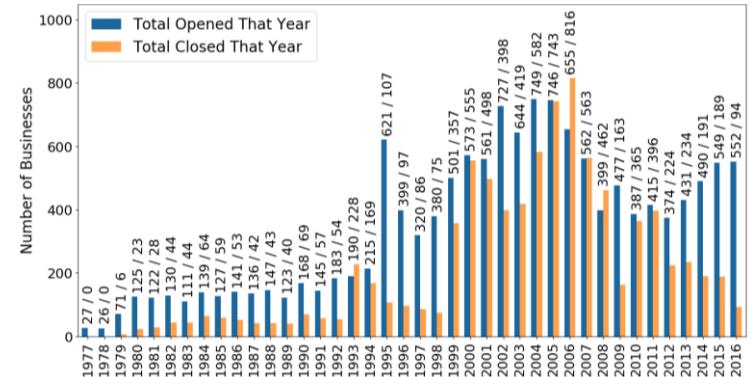
Michael Elliott, Erik Bredfeldt, Matthew Collins, Renato Figueiredo, Mark Girson,
Amardeep Siglani, Lila Stewart, José A. B. Fortes

- Are current data collection practices in Gainesville, Florida sufficient for meaningful analysis and extrapolation of local business success, and how might those practices be improved?
- Over 20 unique datasets were cross analyzed for possible correlations
 - *Business age, type, and location; crime locations and types; electricity consumption; etc.)*
- A survey was administered local businesses to gauge success and sentiments toward existing city services
- Current roadblocks to the effective use of collected data:
 - *Sparsity, uniformity, reliability*
 - *More time is needed to gather enough data*
 - *Improved data infrastructure is needed*

Regional Business Success in Gainesville



Businesses Opened and Closed by Year



Performance Analysis of GPU GTX 980 on Colon Histopathology Images Training Based on Convolutional Neural Network

Toto Haryanto^a, Aniati Murni^a, Kusmardi^b, Xue Lie^c, Heru Suhartanto^a

^a*Faculty of Computer Science, Universitas Indonesia, Depok, 16424, West Java, Indonesia,* ^b*Faculty of Medicine, Universitas Indonesia, Depok, Indonesia.*

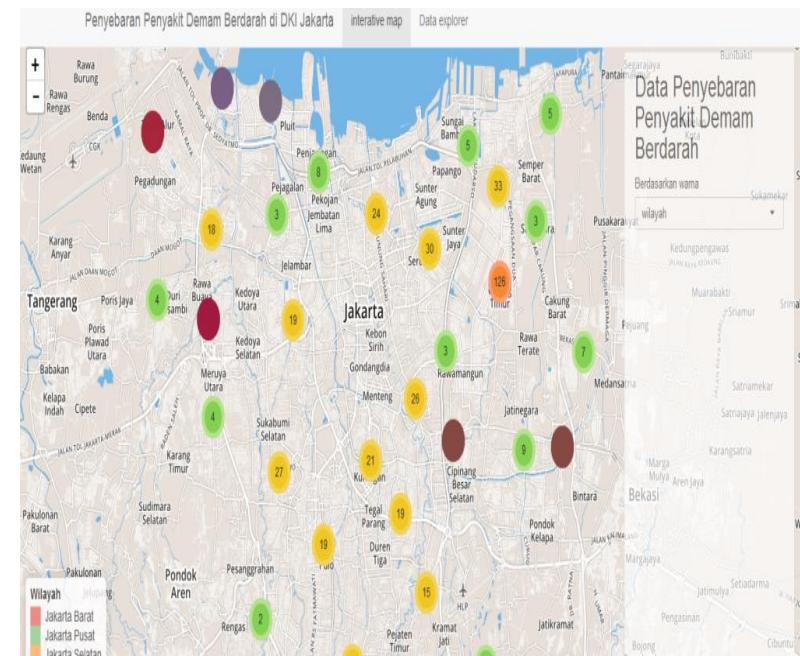
^c*School of ITEE, University of Queensland (UQ) in Brisbane, Queensland, Australia*

Cancer diagnose based on the histopathology images still have some challenges recently. The variation of images, high resolution of images, different pattern of cell on the images have potential contribute to miss-classification. Convolutional neural network has widely used in image processing with its ability to extract and classify an object, but applying CNN on high resolution of images cause cost intensive in training process. We focus on utilizing the NVIDIA GTX-980 GPU memory in the training of CNN architecture. The GPU accelerated by customizing CUDA memory allocation from cnmem library. the parameter of cnmem are chosen from 0.6, 0.8, 1, 2 and and the best value will be used to the next training. To enrich the dataset, augmentation such as rotation, zoom, shear and flip are conducted. Some optimization technique are applied experimentally to determine the best model to classify two classes of cancer, benign or malignant. We use image variation from 32x32, 64x64, 128x128, 180x180 and 200x200 . In the training, a number of batch-size is selected experimentally from 10, 20, 50, 100 and 150. Our finding is that enabling cnmem with parameter 1 is selected as the best value. The 200x200 images show the most significant efficiency of GPU performance when training CNN. Speed-up are measure by comparing training time of GTX-980 with CPU core i7 machine from 16, 8, 4, 2 cores and the single core. The highest speed-up GTX-980 obtained with enabling cnmem are 4.49, 5.00, 7.58, 11.97 and 16.19 compare to 16, 8, 4, 2 and 1 core processor respectively

DENGUE HEMORRHAGIC FEVER DISEASE DATA CLUSTERING BASED ON INTERACTIVE MAP IN JAKARTA

Brian Hogantara, Ummi Azizah Rachmawati
Faculty of Information Technology Universitas YARSI

- Dengue fever is an infection caused by the dengue virus. The virus spread by Aedes aegypti mosquito. Patients who are infected have symptoms such as fever, accompanied by a headache, pain in muscles and joints, until spontaneous bleeding. This research aims to develop an interactive map that is presenting data with web media to obtain spatial information easily. The interactive map uses clustering to process the data from the Jakarta Health Service Office. Clustering is a method of data analyzing, which aims to group data with similar characteristics to the same 'region' and the data with different characteristics to the 'other area'. This method separates the values of health indicators into a few groups which have significant value difference among groups. The result of this research can be used by the policy maker in Jakarta to reduce the spread of the disease and to decrease the mortality of the patient of dengue fever. The interactive map also can be used for a decision-making system for the government based on data dengue fever in Jakarta. This research can help the government and society to take action related to a characteristic of Jakarta areas that have a lot of cases of dengue hemorrhagic fever.



PRAGMA 35 Lightning Talk

- Most of the modern drug discovery are derived from natural products.
- Besides, natural products shares the same advantage as traditional medicine when treating disease.
- In Malaysia, natural products are extracted and stored in a database known as NADI.
- Compounds in NADI are actually ligands that would show target-activity to specific targets. However, these compounds has not been linked to any target.
- Similarity searching which is the simplest method of virtual screening is being used to classify NADI compounds into their respective activity classes by comparing NADI with publicly-chemical database (ChEMBL).
- 42 compounds out of 3901 compounds that exist in NADI that has been successfully assigned to at least one target activity information. Among those 42 compounds, 11 of them is identified interacting with two or more targets.
- Despite, some of the NADI compounds achieves a similarity searching score of 1.0, but they couldn't be classified to any of the activity class since their corresponding ChEMBL compounds do not have any target information.







INTERACTIVE MAPS—BASED DECISION SUPPORT MODELS FOR MEASLES AND RUBELLA IN JAKARTA



G.Pravin Kumar, Elan Suherlan, Ummi Azizah Rachmawati

Faculty of Information Technology, Universitas YARSI, Indonesia

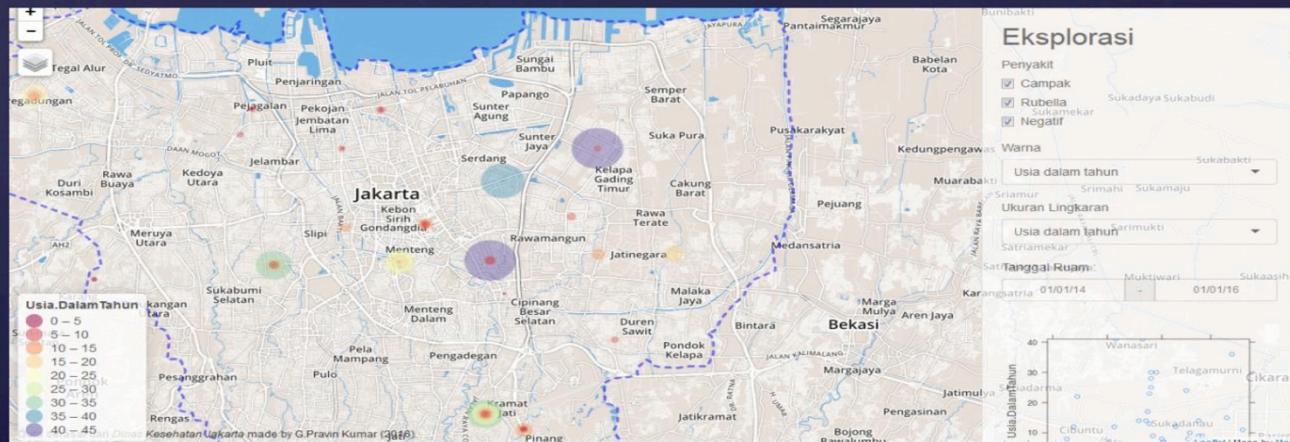
PRAGMA 35 - @USM Penang, Malaysia - 3-6 October 2018

- Measles & rubella outbreaks
- 2010 to 2015 : 23,164 cases of measles and 30,463 cases of rubella In Indonesia.
- Govt : the national routine immunization program

The research

- Applies data on Measles and Rubella classification (Jakarta Health Office in 2015 Data)
- Building an interactive map-based decision support system for measles and rubella

https://awin93.shinyapps.io/Campak_Rubella/



RNA-seq transcriptome profiling of *Desmos chinensis*: revealing the molecular basis of petal evolution in the custard apple family Annonaceae

Amy Wing-Sze Leung



Computational Fluid Dynamics Study of Wind Environment in Urban Areas

Chun-Ho Liu





130th Anniversary of
Japan-Thailand Diplomatic Relations
2017

MARU
Mahidol AIST Research Unit
AIST-Thailand



130th Anniversary of
Japan-Thailand Diplomatic Relations
2017

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Tuberculosis (TB) Disease Interactive Map in Jakarta Capital Special Region

Nuraisah, Ummi Azizah Rachmawati

Faculty of Information Technology, Universitas YARSI, Indonesia
nuraisaah07@gmail.com

- Tuberculosis (TB) is a disease that is easily contagious and can attack various organs of the body, especially the lungs. This disease can cause complications to cause death for the sufferer if not appropriately treated.
- Currently, Indonesia is in the top six countries with the newest TB cases and is ranked second with the most cases of TB patients in the world.
- It is necessary to map problems in each region to ensure what diseases are now spreading in the area.
- We develop the Interactive Map of Tuberculosis (TB) in the Special Capital Region of Jakarta. It can help the stakeholder to make a decision of action to be taken to prevent the spread of the TB virus, especially East Jakarta.
- We provides graphs showing classification of TB patients, such as pulmonary, extra pulmonary and It also shows the diagram of TB patients based on their gender in East Jakarta in 2015-2017.



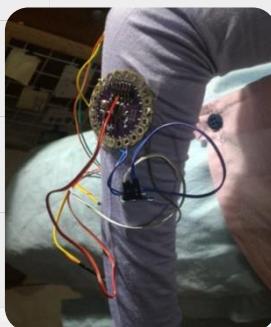
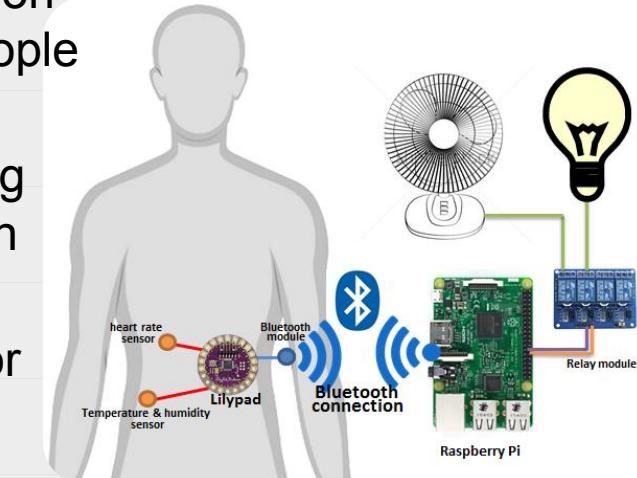


Room Auto Controlling Based on Occupant Body Condition

Using Arduino and Raspberry Pi

Ahmad Sabiq, Nova Eka Diana, Debita Febriana, Sri Chusri Haryanti
Teknik Informatika, Universitas YARSI
Jakarta, Indonesia

- A cozy room should adjust its environment based on the condition of moods and body conditions of people inside.
- This study aims to develop a system for monitoring the human body condition using paired sensors on the Arduino Lilypad.
- The developed system will automatically turn on or turn off the electronic device when the body temperature or the heart rate is higher than the specified threshold value.



SENSOR DETAK JANTUNG			
Waktu	HR	Keterangan Lampu	
10-08-2018 03:08:05	259	ON	
10-08-2018 03:08:05	233	ON	
10-08-2018 03:08:04	697	ON	
10-08-2018 03:08:04	257	ON	
10-08-2018 03:08:04	215	ON	
10-08-2018 03:08:03	322	ON	

SENSOR DH722			
Waktu	RH	Ketegangan Suhu	Keterangan Lampu
10-08-2018 03:03:21	32.10 °C	70.70 %	ON
10-08-2018 03:03:21	32.10 °C	70.60 %	ON
10-08-2018 03:03:21	32.10 °C	70.60 %	ON
10-08-2018 03:03:20	32.10 °C	70.20 %	ON
10-08-2018 03:03:20	32.10 °C	70.50 %	ON
10-08-2018 03:03:19	32.10 °C	70.40 %	ON

An Exploration of Criminality Linguistics on Social Networks Through Personality Traits

Saravanan Sagadevan¹, Nurul Hashimah Ahamed Hassain Malim, Muhammad Baqir Hakim Mohammad Bashir¹, Nurul Izzati Ridzuwan¹

¹Universiti Sains Malaysia, Penang, Malaysia

Introduction

Used **Psychoticism** trait from PEN Model to study the criminality elements in Malay Tweets

Methodology

Harvest Tweets Using *Tweepy*

Data Pre-processing

Annotate data using sentiment valences

String to Vector (Bag of the word)

Applied Synthetic Minority Over-sampling (SMOTE)

Analysis

Machine Learning Classification

- ❖ Sequential Minimal Optimization
- ❖ Naïve Bayes (NB)
- ❖ KNN
- ❖ Decision Tree (J48)

Linguistics Analysis

- ❖ Chi Square

Result

- ❖ NB outperformed other classifier

- ❖ Extracted significant terms (e.g. Anjin*, Bab*)

Conclusion

- ❖ Higher cursing effect and sentiment intensity in Malay negative words may easily mirror the criminality elements



Performance Comparison of Dynamic Load Balancing Algorithm for Indonesian e-Health Cloud



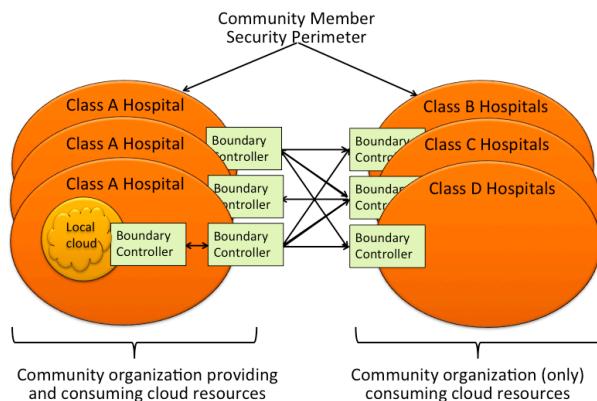
Ridho Yanevan Pratama, Aditya Efrian, Sri Chusri Haryanti, Sri Puji Utami Atmoko

Faculty of Information Technology, Universitas YARSI, Indonesia

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Dynamic load balancing algorithm

- Particle Swarm Optimization (PSO)
- Ant Colony Optimization (ACO)



Cloud Analyst simulation:

- 6 data centers (number of province)
- 42 users (number of cities)



Using UAV images to monitor rice paddy with artificial intelligence

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Highlights

UAV agricultural multi-source image database



Establishing a UAV agricultural multi-source image database which covers the whole life cycle of rice growing stages, nutrient levels, and associated diseases.

UAV Image Analysis



Implementing a variety of image analyses combining AI techniques for growth monitoring, yield prediction, crop moisture content evaluation, damage assessment, and disease monitoring.

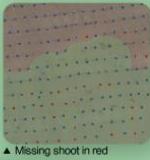
UAV Cloud-based Platform



Establishing a UAV cloud-based platform to combine functions of UAV image analysis and expert advice support system.

Applications

Growth Monitoring



▲ Missing shoot in red



accuracy:
94.68%

Rice shoot

Yield Prediction



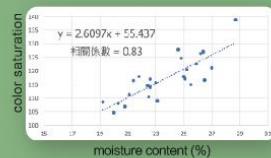
Ear of rice estimation

accuracy:
80%



Morphological image processing

Grain Moisture Content Assessment



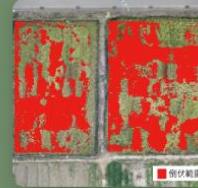
▲ Moisture content at different stages

Rice Traceability System



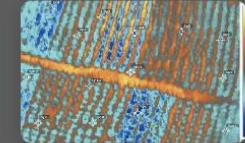
▲ Traceability example

Damage Assessment



accuracy:
96.17%

Disease Detection



▲ Rice blast disease infection area in red.



Edge computing by Jetson TX2
integrating with M100

Thanks to

- All of the PRAGMA Student members
 - Who join the student workshop and gave presentation of their own work
- All of the PRAGMA Senior members
 - Who cares students, support students' research and be a good model for students



Lightning Talk Sessions

Presenter	Title
1 Hiroki Otsuji	Breaking the Trade-off between Performance and Reliability in Network Storage System
2 Irfan Fadhila	Performance Analysis of Virtual Machine and Container for Cloud Based High Performance Computing Platform
3 Arya Adhyaksa Waskita	Distributed scheme of dynamic entropy based method for early detection of anomalous states in sensor network
4 Rizki Putra	Autodock Application Integration into SCLOUD Web Interface Autodock Application Integration into SCLOUD Web Interface
5 Soetrisno Cahya	Adjacency Hyperedges Matrix, A Hypergraph Model for Constructing Composite Object Relationship
6 Andika Andika	Virtual Screening and Molecular Docking of Indonesian Herbal Database based Pharmacopoeia Approached for Identification Sirt1 Inhibitor as Potential Ligand Active
7 Takuya Yamada	Proposal of indoor evacuation system with smartphones



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Yuan Luo

Dear PRAGMA students and mentors,

Please join us for a skype meeting on June 24th/25th.

The main agenda for the meeting is the mentoring relationship between faculty/researchers and students. <http://rocks-210.sdsc.edu/wiki/index.php?title=Mentoring...>

See More

Mentoring - PRAGMA_wiki
rocks-210.sdsc.edu

To better align student research with PRAGMA activities, the PRAGMA Students is working with faculty/researchers in the PRAGMA community to initiate a mentoring relationship between faculty/researchers and students.

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