IWBIS 2016

2016 International Workshop on Big Data and Information Security

October 18-19 th, 2016
East Jakarta, Indonesia

IEEE
INDONESIA SECTION

UNIVERSITAS INDONESIA
Veritas, Probitas, Iustitia

FACULTY OF
COMPUTER
SCIENCE

UNIVERSITAS INDONESIA
Veritas, Probitas, Iustitia

DIREKTORAT
RISET &
PENGABDIAN
MASYARAKAT

University of
South Australia

SOLUSI 247

CONFERENCE INFORMATION

Dates	October 18th (Tuesday) – October 19th (Wednesday) 2016
Organizer	Faculty of Computer Science, Universitas Indonesia
Venue	Hotel Santika Taman Mini Indonesia Indah – Jakarta
	Jalan Pintu 1, Taman Mini Indonesia Indah
	Jakarta Timur 13880
	Phone : +62-21-29378500
	Fax : +62-21-29378600
Official Language	English
Secretariat	Faculty of Computer Science, Universitas Indonesia
	Kampus UI Depok
	Depok, 16424
	Indonesia
	T: +62 21786 3419 ext. 3225
	F: +62 21 786 3415
	E: iwbis@cs.ui.ac.id
	W: http://www.cs.ui.ac.id
Conference Website	http://iwbis.cs.ui.ac.id

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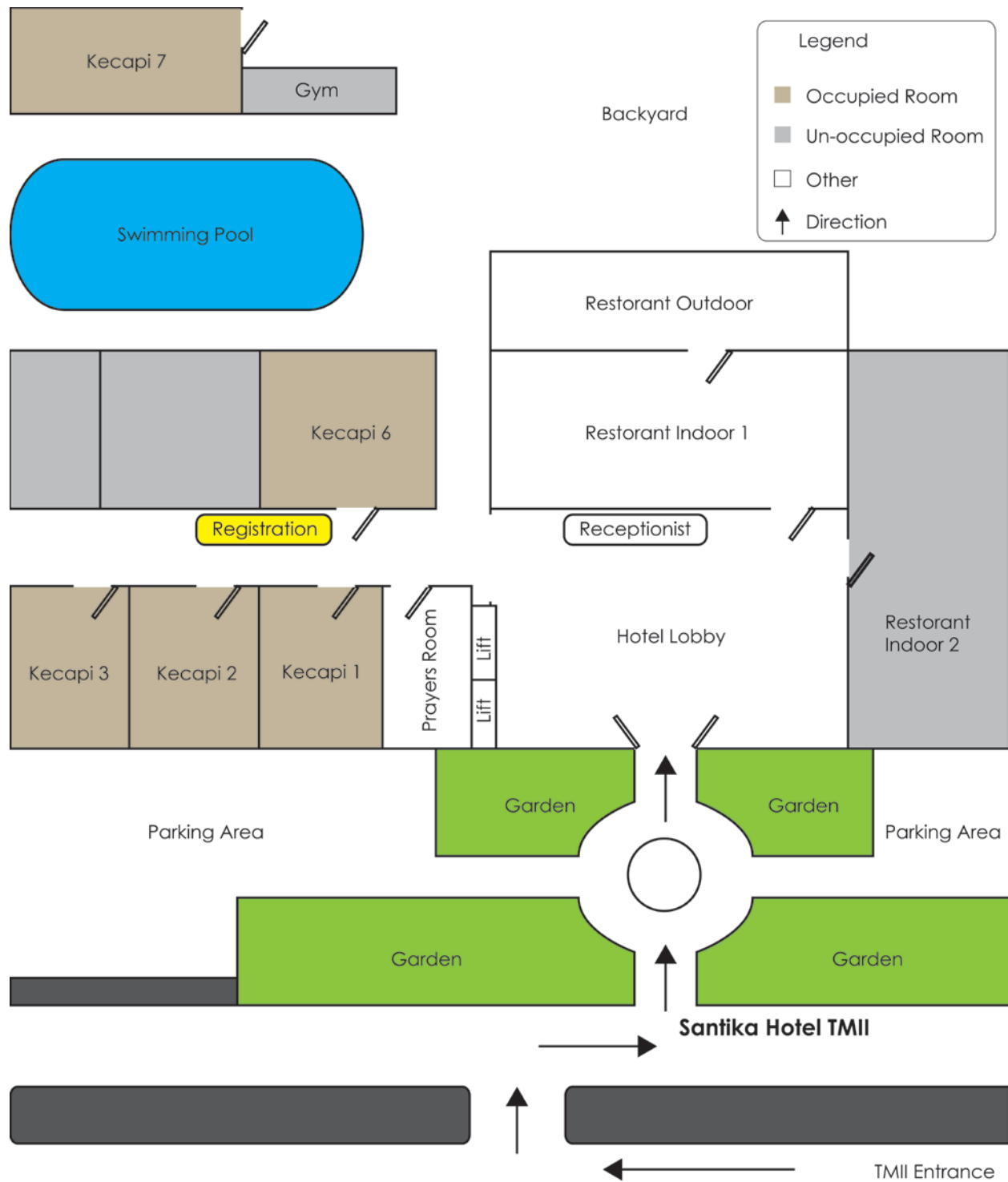
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Hotel Santika Taman Mini Indonesia Indah – Jakarta

Jalan Pintu 1, Taman Mini Indonesia Indah

Jakarta Timur 13880
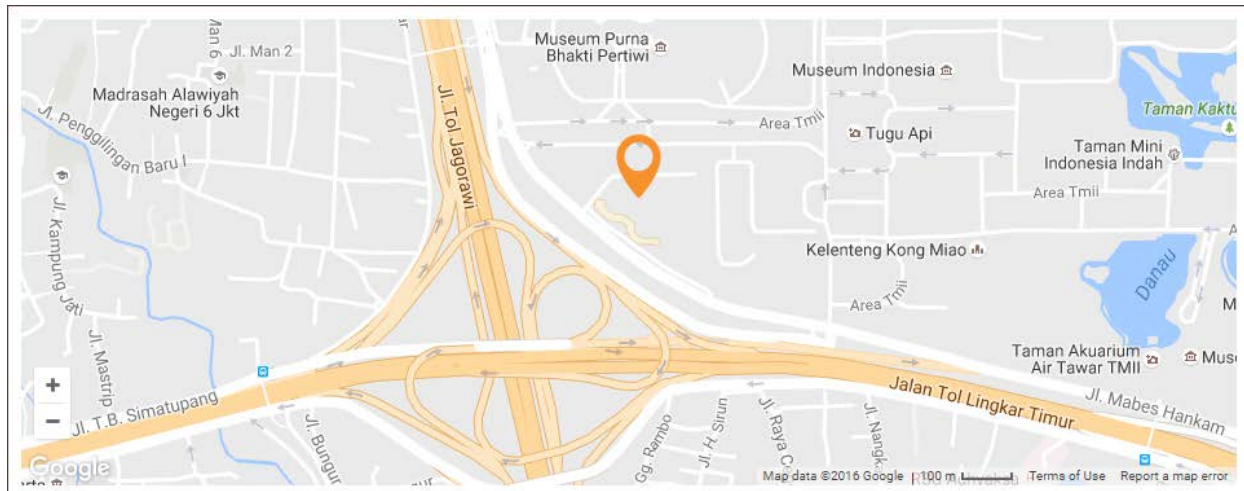
Venue Map

REGISTRATION

Registration Fee

Accepted Paper	USD 300 (International)
	IDR 3.000.000 (Domestic)
Additional Page	USD 10 (IDR 120.000) (per page)
Participant	USD 150 (International)
	IDR 750.000 (Domestic)

Payment Method

All payment for the administration fee and additional events should be transferred to the bank account below:

Recipient Bank :BNI

Account Name :UNIVERSITAS-INDONESIA-Fasilkom Non BP

Account Number :127 3000 444

Swift Code :BNI NIDJA 127 3000 444

PROGRAM SCHEDULE

Day 1, October 18th, 2016

Time	Room					
	Theater Room (Kecapi 6)		Parallel Room 1 (Kecapi 7)		Parallel Room 2 (Kecapi 1)	
	Event	Event Details	Event	Event Details	Event	Event Details
08:00-09:00	Registration					
09:00-09:05	Opening Ceremony	Opening Speech from the General Chair of IWBIS 2016 (Prof. Heru Suhartanto, Ph.D)				
09:05-09:10		Opening Speech from the Dean of Faculty of Computer Science Universitas Indonesia (Mirna Adriani, Ph.D)				
09:15-09:30	Coffee Break					
09:30-10:20	Big Data Workshop by "Labs247"	Session 1: "Overview of Big Data and Its Tools"				
10:20-11:10		Session 2: "Big Data Engineering & Processing: Demo & Hands-on"				
11:10-12:00		Session 3: "Big Data Analytics: Demo"				
12:00-13:00	Lunch					
13:00-14:00			Scientific Writing Seminar & Workshop	Session 1	FGD "Telehealth"	Private meeting only for invited participants.
14:00-15:15				Session 2		
15:15-15:45	Coffee Break					
15:45-17:00			Scientific Writing Seminar & Workshop	Session 3	FGD "IoT"	Private meeting only for invited participants
17:00-18:00				Session 4		

Day 2, October 19, 2016

Time	Room					
	Theater Room (Kecapi 6)		Parallel Room 1 (Kecapi 1)		Parallel Room 2 (Kecapi 2)	
	Event	Event Details	Event	Event Details	Event	Event Details
08:00-09:00	Registration					
09:00-09:30	Keynote Speech I: *Prof. Tapio Salakoski University of Turku, Finland*	Moderator: *Dr. Ade Azurat*				
09:30-10:00	Keynote Speech II: *Prof. Dr. Xue Li University of Queensland, Australia*	Moderator: *Prof. Heru Suhartanto*				
10:00-10:30	Keynote Speech III: *Dr. Nico Neumann University of South Australia, Australia*	Moderator: *Prof. Heru Suhartanto*				
10:30-11:00	Coffee Break					
11:00-12:00			Parallel Session I: Paper Presentation	Session Chair: *Bayu Anggoro Jati, Ph.D / Yulistian Wardhana, M.Kom.*	Parallel Session II: Paper Presentation	Session Chair: *Dr. Eng. Adi Wibowo / Yova Ruldeviyani, M. Kom.*
12:00-13:00	Lunch					
13:00-13:30	Keynote Speech IV: *Dr. Huang Yen-Nun Academia Sinica, Taiwan*	Moderator: *Dr. Setiadi Yazid*				
13:30-14:00	Keynote Speech V: *Dr. Jun Zhang Deakin University, Australia*	Moderator: *Ari Saptawijaya, Ph.D*				
14:00-14:30	Keynote Speech VI: *Dr. Eng. Wisnu Jatmiko Universitas Indonesia*	Moderator: *Ari Saptawijaya, Ph.D*				
14:30-15:30			Parallel Session III: Paper Presentation	Session Chair: *Bayu Anggoro Jati, Ph.D / Yulistian Wardhana, M.Kom.*	Parallel Session IV: Paper Presentation	Session Chair: *Dr. Eng. Adi Wibowo / Yova Ruldeviyani, M. Kom.*
15:30-16:00	Coffee Break					

Time	Room					
	Theater Room (Kecapi 6)		Parallel Room 1 (Kecapi 1)		Parallel Room 2 (Kecapi 2)	
	Event	Event Details	Event	Event Details	Event	Event Details
16:00-17:00			Parallel Session V: Paper Presentation	Session Chair: *Bayu Anggoro Jati, Ph.D / Yulistian Wardhana, M.Kom.*	Parallel Session VI: Paper Presentation	Session Chair: *Dr. Eng. Adi Wibowo / Yova Ruldeviyani, M. Kom.*
17:00-18:00	Closing Ceremony	Awards Announcement and Photo Session				

KEYNOTE SPEAKER

- Nico Neumann, University of South Australia, AU
- Yen Nun Huang, Academia Sinica, TW
- Tapio Salakoski, University of Turku, FI
- Xue Li, University of Queensland, AU
- Jun Zhang, Deakin University, AU
- Wisnu Jatmiko, Universitas Indonesia, ID

"Keynote Speaker"

Medical Warning System Based on Internet of Things Using Fog Computing

Iman Azimi, Arman Anzanpour, Amir M. Rahmani, Pasi Liljeberg, and Tapio Salakoski

Department of Information Technology, University of Turku, Finland

Abstract

Remote patient monitoring is essential for many patients that are suffering from acute diseases such as different heart conditions. Continuous health monitoring can provide medical services that consider the current medical state of the patient and to predict or early-detect future potentially critical situations. In this regard, Internet of Things as a multidisciplinary paradigm can provide profound impacts. However, the current IoT-based systems may encounter difficulties to provide continuous and real time patient monitoring due to issues in data analytics. In this paper, we introduce a new IoT-based approach to offer smart medical warning in personalized patient monitoring. The proposed approach consider local computing paradigm enabled by machine learning algorithms and automate management of system components in computing section. The proposed system is evaluated via a case study concerning continuous patient monitoring to early-detect patient deterioration via arrhythmia in ECG signal.

Profile

Prof. Tapio Salakoski is a Professor in Department of Information Technology, University of Turku, Turku, Finland.

His major areas of research interests and expertise include: Data Mining, Bioinformatics, and Machine Learning.

Prof. Tapio Salakoski is vice-director at TUCS, within which he leads two laboratories. He is the main leader of the bioinformatics laboratory and the co-leader (with Back) of the learning and reasoning laboratory.

"Keynote Speaker"

Advancing Public Health Genomics

Xue Li, Xin Zhao, Mingyang Zhong

School of Information Technology and Electrical Engineering, the University of Queensland, Brisbane, Australia

Abstract

With the rapid development of theory and practice in Genomics, research on Public Health Genomics, as a new field is beginning to contribute to people's life. A huge number of genomics data is available but not yet readily used in clinical services. A gap exists between genomics research and public healthcare genomics applications. We believe that machine intelligence can play an important role in the transferring Genomics knowledge to practical use. As a vision of our research, in this paper we present the usefulness of applying machine intelligence to public health genomics.

Profile

Dr Xue Li is a Professor in the School of Information Technology and Electrical Engineering at the University of Queensland (UQ) in Brisbane, Queensland, Australia. His major areas of research interests and expertise include: Data Mining, Social Computing, Database Systems, and Intelligent Web Information Systems.

Dr Xue Li is honoured as one of "the most powerful people in Australia" on Big Data by the Financial Review. He also member of ACM, IEEE, and SIGKDD.

"Keynote Speaker"

Overview of Research Center of Information Technology Innovation in Taiwan Academia Sinica

Yennun Huang, Szu-Chuang Li

The Research Center for Information Technology Innovation, Academia Sinica, Taiwan

Abstract

The Research Center for Information Technology Innovation (CITI) at Academia Sinica was founded in February 2007, with the purpose to integrate the research and development activities in information technologies among various organizations in Aca-demia Sinica, and also to further leverage IT-related multi-disciplinary research. In CITI, Ministry of Science and Technolo-gy funded Taiwan Information Security Center (TWISC) to do research on security. TWISC pulls together experts in infor-mation security from various universities and research institutes in Taiwan with an aim to boost research and development activi-ties in information security, promote public awareness, and foster partnership among government, academia, and the private sector. Its research topics cover data/ software/ hardware/ network secu-rity and security management. TWISC has become the hub of security research in Taiwan and have been making significant impact through publishing and creating of toolkits. Recently pri-vacy also becomes one of the main focuses of TWISC. The re-search team at CITI, Academia has been working on a viable way to assess the disclosure risk of synthetic dataset. Preliminary research result will be presented in this paper.

Profile

Dr. Huang received his PhD in Computer Science from University of Maryland. Dr. Huang has 20 US patents awarded and more than 70 papers published in well-known journals and conferences. His patents have generated millions of US dollars license income for AT&T and Lucent and created two telecom products. His 1995 Software rejuvenation paper initiated software fault avoidance and prevention research area.

Dr. Huang currently is the CEO of Security Research Center in Academia Sinica and the Deputy Executive Secretary of Science and Technology Advisory Group of Executive Yuan, helping Premier of Executive Yuan in Taiwan on the Information and Communication Technology (ICT) development policy and funding allocation. Dr. Huang was elected as a 2012 IEEE Fellow.

"Keynote Speaker"

The Power of Big Data and Algorithms in Advertising and Customer Communication

Nico Neumann

The Centre for Algorithmic Commerce and Technology, Sidney, Australia

Abstract

Leveraging customer data in scale, and often in real time, has led to a new field called *programmatic commerce -* the use of data, automation and analytics to improve customer experiences and company performances. Specifically in advertising and marketing, programmatic applications have become very popular due to three key benefits: (1) faster buying processes, (2) personalization and (3) micro-targeting. In this talk, Dr. Neumann will discuss the development of this new field and share some real-world case studies illustrating the power of big data and algorithmic decision-making to drive business outcomes.

Profile

Dr Nico Neumann is a senior researcher for programmatic strategy, business technology and analytics at the University of South Australia. He is a frequently invited keynote speaker at international industry events and a member of the advisory board of MediaMath's New Marketing Institute. Before joining UniSA, Nico has worked for Accenture Management Consulting, Datalicious and IPG Mediabrands, where he was the Lead Statistician for Product Development.

"Keynote Speaker"

Flow-Based Traffic Retrieval Using Statistical Features

Jun Zhang and Andrzej Goscinski

TSchool of Information Technology, Deakin University, Victoria, Australia

Abstract

This paper proposes a new technique, flow-based traffic retrieval (FBTR), to find traffic flows that satisfy an information need from within large collections of network traffic. It is shown that flow-based traffic retrieval will become a powerful tool in network management and security. For example, the retrieved traffic flows can be used to help analysing new applications/protocols and detecting unknown attacks. In the context of flow-based traffic retrieval, a traffic flow is represented by a vector that consists of a set of flow statistics, such as the average of packet sizes and the average of inter-packet times. The user can submit a traffic flow, or several traffic flows, and ask for "similar" traffic flows to be retrieved from a traffic collection. Similarity search is based on comparing flow vectors in a feature space. We have done some preliminary experiments to evaluate the performance of flow-based traffic retrieval. The results show flow-based traffic retrieval has potential to quickly and accurately find user-interested network traffic, even encrypted traffic.

Profile

Dr. Jun Zhang leads a research and development team (15+ members) working in cyber security, big data analytics and image privacy. He received his PhD from University of Wollongong, Australia, in 2011. Jun Zhang is the HDR coordinator, a research theme leader of Deakin SRC Centre for Cyber Security Research. He has published more than 60 research papers in refereed international journals and conferences, such as IEEE/ACM Transactions on Networking (ToN), IEEE Transactions on Image Processing (TIP), IEEE Transactions on Parallel and Distributed Systems (TPDS), IEEE Transactions on Dependable and Secure Computing (TDSC), IEEE Transactions on Information Forensics and Security (TIFS), and IEEE Transactions on Systems, Man and Cybernetics - Part B (TSMC-B), IEEE Transactions on Network and Service Management (TNSM). Jun Zhang received 2009 Chinese government award for outstanding student abroad. He is a member of the IEEE.

"Keynote Speaker"

A Review of Big Data Analytics in the Biomedical Field

Wisnu Jatmiko

Faculty of Computer Science, Universitas Indonesia

Abstract

In the recent years, the volume of data that exists in the world has risen dramatically. Biomedical data are data that are recorded from a living being that is used to help analyzing and diagnosis of a certain illness. Like many other types of data, the volume biomedical data has also risen in the last couple of years. In order to process this large amount of data, conventional processing techniques are not adequate. In this paper, we discuss several approach in processing large amount of biomedical data. This paper will also discuss several variations of biomedical data and the challenge that are faced when processing those biomedical data in large sizes.

Profile

Born in Surabaya, Indonesia, December, 1973. Received B.Eng. degree from Electrical Engineering in 1997, M.Sc. degree from Computer Science in 2000, both from the University of Indonesia, Indonesia, and Dr. Eng. degree from Micro-Nano Systems Engineering, Nagoya University, Japan, in 2007, respectively. Currently, he works at Faculty of Computer Science, University of Indonesia, Indonesia as a lecturer. He is regarded as a highly productive researcher and has more than 100 international publications that are mostly indexed in Scopus and Google Scholar. In addition, he has already published 6 books and produced 4 copyrights of computer software from his research products.

TECHNICAL PROGRAM IWBIS 2016

Opening Ceremony Venue: Kecapi 6 Room	**Tuesday, Oct 18** **09:00-09:15**

Opening remarks by Prof. Heru Suhartanto

Big Data Workshop by "Labs247" Venue: Kecapi 6 Room	**Tuesday, Oct 18** **09:30-12:00**

Speakers:
- Solichoel Arifin, M.Sc.
- Ferry Pranolo
- Sigit Prasetyo

Scientific Writing Seminar & Workshop Venue: Kecapi 7 Room	**Tuesday, Oct 18** **13:00-18:00**

Speaker:
Harry Budi Santoso, Ph.D
Dr. Eng. Wisnu Jatmiko

Focus Group Discussion: Telehealth (private) Venue: Kecapi 7 Room	**Tuesday, Oct 18** **13:00-15:15**

Topic: Telehealth
Moderator: Prof. Heru Suhartanto

Focus Group Discussion: IoT (private) Venue: Kecapi 7 Room	**Tuesday, Oct 18** **15:15-18:00**

Topic: IoT
Moderator: Bayu Anggoro Jati, Ph.D

Keynote Speech I Venue: Kecapi 6 Room	**Wednesday, Oct 19** **09:00-09:30**

Speaker: Prof. Tapio Salakoski, University of Turku, Finland
Moderator: Dr. Ade Azurat

Keynote Speech II Venue: Kecapi 6 Room	**Wednesday, Oct 19** **09:30-10:00**

Speaker: Prof. Dr. Xue Li, University of Queensland, Australia
Moderator: Prof. Heru Suhartanto

Keynote Speech III Venue: Kecapi 6 Room	**Wednesday, Oct 19** **10:00-10:30**

Speaker: Dr. Nico Neumann, University of South Australia, Australia
Moderator: Prof. Heru Suhartanto

Parallel Session I	Wednesday, Oct 19
Information Security	11:00-12:00
Venue: Kecapi 1 Room	

Session Chair:
- Bayu Anggoro Jati, Ph.D
- Yulistian Wardhana, M.Kom.

(498) Design DDoS Attack Detector using NTOPNG
Grafika Jati, Budi Hartadi, Akmal Gafar Putra, Fahri Nurul, M. Riza Iqbal, Setiadi Yazid, Aprinaldi Jasa Mantau

(510) Recommender System for Product Offering by Personalized Email
Alexander A. S. Gunawan, Tania, Derwin Suhartono

(518) Comparative Study of Lightweight Secure Multiroute Communication System in Low Cost Wireless Sensor Network for CO 2 Monitoring
Novian Habibie, Rindra Wiska, Aditya Murda Nugraha, Wisnu Jatmiko, Setiadi Yazid, M. Hafizhuddin Hilman

(528) Big Sensor-Generated Data Streaming Using Spark for Data Storage and Regression in Wireless Sensor Network for CO2 Monitoring
Rindra Wiska, Novian Habibie, Wisnu Jatmiko, M. Febrian Rachmadi, W. Satyo Nugroho, Petrus Mursanto, D. Hikmat Ramdhan

Parallel Session II	Wednesday, Oct 19
Big Data	11:00-12:00
Venue: Kecapi 2 Room	

Session Chair:
- Dr. Eng. Adi Wibowo
- Yova Ruldeviyani, M. Kom.

(530) Generalized Learning Vector Quantization Particle Swarm Optimization (GLVQ-PSO) FPGA Implementation for Real-Time Electrocardiogram
Yulistiyan Wardhana, D. Made Sri Arsa, Wisnu Jatmiko, Andreas Febrian

(525) Design of Intelligent K-Means Based on Spark for Big Data Clustering
Ilham Kusuma, M. Aanwar Ma'sum, Wisnu Jatmiko, Heru Suhartanto, M. Febrian Rachmadi

(531) Adaptive Range in FIMT-DD Tree for Large Data Streams
Hanif Arief Wisesa, M. Anwar Ma'sum, Ari Wibisono, Wisnu Jatmiko, M. Hafizhuddin Hilman

Keynote Speech IV	Wednesday, Oct 19
Venue: Kecapi 6 Room	13:00-13:30

Speaker: Dr. Huang Ye-Nun, Academia Sinica, Taiwan
Moderator: Dr. Setiadi Yazid

Keynote Speech V	**Wednesday, Oct 19**
Venue: Kecapi 6 Room	**13:30-14:00**

Speaker: Dr. Jun Zhang, Deakin University, Australia
Moderator: Ari Saptawijaya, Ph.D

Keynote Speech VI	**Wednesday, Oct 19**
Venue: Kecapi 6 Room	**14:00-14:30**

Speaker: Dr. Eng. Wisnu Jatmiko, Universitas Indonesia
Moderator: Ari Saptawijaya, Ph.D

Parallel Session III	**Wednesday, Oct 19**
Big Data	**14:30-15:30**
Venue: Kecapi 1 Room	

Session Chair:
- Bayu Anggoro Jati, Ph.D
- Yulistian Wardhana, M.Kom.

(535) Parallel Rules Based Classifier using DNA Strand Displacement for Multiple Molecular Markers Detection
Adi Wibowo, Satriyo Adhy, Retno Kusumaningrum, Helmie Arif Wibawa, Kosuke Sekiyama

(536) Big Data Compression using SPIHT in Hadoop: A Case Study in Multi-Lead ECG Signals
Grafika Jati, Ilham Kusuma, Wisnu Jatmiko, M. Hafizhuddin Hilman

(400) Data Warehouse Design and Implementation of Merchant Acquirer
Yova Ruldeviyani, Bofandra Muhammad

Parallel Session IV	**Wednesday, Oct 19**
Big Data	**14:30-15:30**
Venue: Kecapi 2 Room	

Session Chair:
- Dr. Eng. Adi Wibowo
- Yova Ruldeviyani, M. Kom.

(493) Predicting the Status of Water Pumps Using Data Mining Approach
Darmatasia, A. Murni Arymurthy

(508) Dimensionality Reduction using Deep Belief Network in Big Data
D. Made Sri Arsa, Grafika Jati, Aprinaldi Jasa Mantau, Ito Wasito

(524) Spatial Data Mining for Predicting of Unobserved Zinc Pollutant using Ordinary Point Kriging
Alexander A. S. Gunawan, Annisa Nur Falah, Alfensi Faruk, Destiny S. Lutero. Budi Nurani Ruchjana, Atje Setiawan Abdullah

(507) A Survey of Whole Genome Alignment Tools and Frameworks based on Hadoop MapReduce
Sumarsih C. Purbarani, Yulistiyan Wardhana, Aprinaldi Jasa Mantau

Parallel Session V   Wednesday, Oct 19
Big Data   **16:00-17:00**
Venue: Kecapi 1 Room

Session Chair:
- Bayu Anggoro Jati, Ph.D
- Yulistian Wardhana, M.Kom.

(534) Enhanced Tele ECG System Using Hadoop Framework to Deal With Big Data Processing
M. A. Ma'sum, Wisnu Jatmiko, Heru Suhartanto, M. Febrian Rachmadi

(533) Processing Big Data with Decision Trees
H. Arif Wisesa, M. Anwar Ma'sum, Wisnu Jatmiko, Andreas Febrian

(430) The Application of Big Data using MongoDB: Case Study with SCeLE Fasilkom UI Forum Data
Argianto Rahartomo, Rizal Fathoni Aji, Yova Rudelviyani

(397) Enhancing Query Performance of Library Information Systems using NoSQL DBMS: Case Study on Library Information Systems of Universitas Indonesia
Yova Ruldeviyani, Hermansyah, Rizal Fathoni Aji

Closing Ceremony   Wednesday, Oct 19
Venue: Kecapi 6 Room   **17:00-18:00**

Closing Remarks by Prof. Heru Suhartanto

PRESENTER'S SCHEDULE

A

Alexander A. S. Gunawan			
Recommender System for Product Offering by Personalized Email			
Kecapi 1	Parallel Session I 11.15-11.30	Oct 19 (Wed)	Presenter 1
Spatial Data Mining for Predicting of Unobserved Zinc Pollutant using Ordinary Point Kriging			
Kecapi 2	Parallel Session II 15.00-15.15	Oct 19 (Wed)	Presenter 1

Adi Wibowo			
Parallel Rules Based Classifier using DNA Strand Displacement for Multiple Molecular Markers Detection			
Kecapi 1	Parallel Session III 14.45-15.00	Oct 19 (Wed)	Presenter 1

Ardian Hosen			
Aggregation of Open Data Information using Linked Data: Case Study Education and Job Vacancy Data in Jakarta			
Kecapi 1	Parallel Session V 16.30-16.45	Oct 19 (Wed)	Presenter 1

Argianto Rahartomo			
The Application of Big Data using MongoDB: Case Study with SCeLE Fasilkom UI Forum Data			
Kecapi 2	Parallel Session II 11.30-11.45	Oct 19 (Wed)	Presenter 1

D

Darmatasia Palehai			
Predicting the Status of Water Pumps Using Data Mining Approach			
Kecapi 2	Parallel Session IV 14.30-14.45	Oct 19 (Wed)	Presenter 2

Dewa Made Sri Arsa			
Knowledge Representation System for Copula Sentence in Bahasa Indonesia Based on Web Ontology Language (OWL)			
Kecapi 2	Parallel Session IV 14.45-15.00	Oct 19 (Wed)	Presenter 3

G

Grafika Jati			
Design DDoS Attack Detector using NTOPNG			
Kecapi 1	Parallel Session I 11.00-11.15	Oct 19 (Wed)	Presenter 2
Big Data Compression using SPIHT in Hadoop: A Case Study in Multi-Lead ECG Signals			
Kecapi 1	Parallel Session III 15.00-15.15	Oct 19 (Wed)	Presenter 2

H

Hanif Arief Wisesa			
Adaptive Range in FIMT-DD Tree for Large Data Streams			
Kecapi 1	Parallel Session III 14.30-14.45	Oct 19 (Wed)	Presenter 3
Processing Big Data with Decision Trees			
Kecapi 1	Parallel Session V 16.15-16.30	Oct 19 (Wed)	Presenter 2

I

Ilham Kusuma			
Design of Intelligent K-Means Based on Spark for Big Data Clustering			
Kecapi 2	Parallel Session 2 11.15-11.30	Oct 19 (Wed)	Presenter 2

M

M. Anwar Ma'sum			
Enhanced Tele ECG System Using Hadoop Framework To Deal With Big Data Processing			
Kecapi 1	Parallel Session V 16.00-16.15	Oct 19 (Wed)	Presenter 3

N

Novian Habibie			
Comparative Study of Lightweight Secure Multiroute Communication System in Low Cost Wireless Sensor Network for CO 2 Monitoring			
Kecapi 1	Parallel Session I 11.30-11.45	Oct 19 (Wed)	Presenter 3

R

Rindra Wiska			
Big Sensor-Generated Data Streaming Using Spark for Data Storage and Regression in Wireless Sensor Network for CO2 Monitoring			
Kecapi 1	Parallel Session I 11.45-12.00	Oct 19 (Wed)	Presenter 4

S

Sumarsih Condroayu Purbarani			
A Survey of Whole Genome Alignment Tools and Frameworks based on Hadoop MapReduce			
Kecapi 2	Parallel Session IV 15.15-15.30	Oct 19 (Wed)	Presenter 4

Y

Yova Ruldeviyani			
Design And Implementation Of Merchant Acquirer Data Warehouse at PT. XYZ			
Kecapi 1	Parallel Session III 15.15-15.30	Oct 19 (Wed)	Presenter 4
Enhancing Query Performance of Library Information Systems using NoSQL DBMS: Case Study on Library Information Systems of Universitas Indonesia			
Kecapi 1	Parallel Session V 16.45-17.00	Oct 19 (Wed)	Presenter 4

Yulistiyan Wardhana			
Generalized Learning Vector Quantization Particle Swarm Optimization (GLVQ-PSO) FPGA Implementation for Real-Time Electrocardiogram			
Kecapi 2	Parallel Session II 11.00-11.15	Oct 19 (Wed)	Presenter 3