

25-27 August
2016

The 22nd Asia-Pacific Conference
on Communications

“ADVANCEMENT OF SCIENCE,
TECHNOLOGY AND APPLICATIONS IN
COMMUNICATIONS FOR HUMANITY”

Royal Ambarukmo Hotel, Special Region Yogyakarta, Indonesia

PROGRAM BOOK

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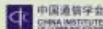
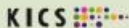


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Greetings

Welcome Message from the General Chair

Greetings!

It is our great pleasure and honor to welcome you to APCC 2016, the 22nd Asia-Pacific Conference on Communications and also to our beautiful Yogyakarta, the center of Javanese arts and culture. In this event we will have the opportunities to exchange knowledge and information on latest researches and strengthening relationships amongst us, while enjoying the relaxing yet entertaining environment of Yogyakarta.



Since 1993, APCC has been acknowledged as technical forum for researchers and engineers to interact and disseminate information on the latest developments in advanced communication and information technologies, particularly in the Asia-Pacific region. In this 22nd APCC, the event is organized by IEEE Communication Society Indonesia Chapter, supported by Telkom Institute of Technology and University of Gajah Mada, as Co-Organizers. APCC 2016 is made possible through the technical co-sponsorship of the IEICE Communication Society, KICS and CIC.

Many advance technologies in the communication field, start to put the intelligences in many segments and subsystems of a communication system. Novel methodologies and approaches are introduced to achieve higher level of communication quality. Nevertheless, human life is still a very important aspect to be considered in each development of technologies, including communication technology. Today, we have witnessed the rise of broad smart digital technologies on the devices, sensors, networks, controls and not to mentions millions of applications. Those smart technologies spun from computing, broadcasting and media, platforms, applications and contents, advertising and social media. Accordingly, under the theme of "Advancement of Science, Technology and Applications in Communications for Humanity", APCC 2016 will provide opportunity for us to discuss these issues. Still, there are many challenges need to be resolved, including technology, infrastructure, traffic, spectrum, privacy/security, energy-efficiency, nature-friendly development, life style changes, and others.

In APCC 2016, we are honored to have several distinguished Keynote Speakers around the world. Other APCC 2016 point, there is high interest on 5G and IoT as the advance topics in communications nowadays. During this event, we are also delighted to have valuable tutorials delivered by experts.

We hope all participants will have valuable and also enjoyable experience during this event. Looking forward to see you all in Yogyakarta.

General Chair
Wiseto Agung
Telkom Indonesia



Greetings

Welcome Message from TPC Chair

Dear Ladies and Gentlemen,



It is a great honor for all of us to host the APCC 2016, the 22nd Asia-Pacific Conference on Communications, in Yogyakarta, where the high qualified papers in advanced information and communication technologies and services, under the theme of "Advancement of Science, Technology and Applications in Communications for Humanity", will be presented. The conference received 297 papers from 828 authors of 29 countries and through high qualification of reviewing process and tight registration process APCC 2016 accepted 126 papers from 401 authors of 24 countries with high qualified papers.

The research in advanced information and communication technologies and services, and also communications networks with advanced technologies are very important since it brings us insight into new engineering solutions that may influence our life. This event represents a great achievement in topics of interest, which the best contributors coming from excellent laboratories and schools throughout the world, precipitate to come and contribute their finest works. Therefore, this conference will become the landmark for engineering society to express their thoughts and skills in finding best algorithms or modern mathematical modeling for the future technology. Not only the high qualified papers, the conference is supported by 6 experts in tutorial sessions and 9 distinguished experts in keynote sessions.

We would like to express special appreciation for 702 technical program committee (TPC) that supported the review process, thus enable us to present high qualified conference in communications technology. The top 7 demanding topics from background of reviewers background are IoT Communication and Networking Protocols (279 reviewers); IoT Enabling Technologies (228 reviewers); Network Architecture and Protocol (225 reviewers); Future Network (219 reviewers); IoT System Architecture (219 reviewers); Services and Applications (215 reviewers); Wireless System (211 reviewers).

Welcome to Yogyakarta, we hope that you enjoy the foods, graceful palace, arts, its tropical beauties and richness culture. We hope that fruitful discussions and exchange of ideas between researchers during conference will yield new technological innovations for contributing to a better life for humans in the coming decades.

Best regards,

TPC Chair,
Rina Pudji Astuti



Program at a Glance

Day One: Thursday, 25 August 2016

Hours	KARATON BALLROOM	PEMANDANGAN 1	PEMANDANGAN 2	PEMANDANGAN 3	PEMANDANGAN 4
08.30-09.30	Opening Session				
09.30-12.00	Keynote Session Day One I				
	Coffee Break				
	Keynote Session Day One II				
	Keynote Session Day One III				
12.00-13.00	LUNCH at ROYAL RESTAURANT on Lobby Level				
13.00-17.30	Tutorial Session Day One I & II	Optical Session	4G Enhancement & 5G (A) Session	Antenna & Propagation Session	Cloud Computing & IoT (A) Session
	Coffee Break	Coffee Break	Coffee Break		Coffee Break
	Tutorial Session Day One III	ASC Meeting	4G Enhancement & 5G (B) Session		Cloud Computing & IoT (B) Session
18.30-end	GALA DINNER at PENDOPO on Lobby Level				

Program at a Glance

Day Two: Friday, 26 August 2016

Hours	KARATON BALLROOM	PEMANDENGAN 1	PEMANDENGAN 2	PEMANDENGAN 3	PEMANDENGAN 4
08.30-12.00	Keynote Session Day Two I, II, III Coffee Break Keynote Session Day Two IV, V, VI				
12.00-13.30	LUNCH at ROYAL RESTAURANT on Lobby Level				
13.30-17.30	Poster Session Tutorial Session Day Two I & II Coffee Break Tutorial Session Day Two III	Networks (A) Session Coffee Break Networks (B) Session	Networks (C) Session Coffee Break Services Session	Wireless (A) Session Coffee Break Wireless (B) Session	Wireless Signal Processing Session



Program at a Glance

Day Three: Saturday, 27 August 2016

Sunrise Tour to Borobudur (Start 03.00 AM – Finish 10.00 AM)

- | | |
|-------|--|
| 03.00 | Departure from Ambarrukmo hotel, transfer directly to Borobudur |
| 04.00 | Arrive in Borobudur, after get the entrance ticket at Manohara, climb up to enjoy the sunrise on the third level of Borobudur temple or on the top of Borobudur temple |
| 05.00 | Enjoy the Sunrise, see the magnificent panoramic view around the Borobudur temple |
| 06.00 | Visit the temple, see the relief of the Buddha life depicting on the wall of the temple |
| 07.30 | Back to Manohara to take morning café |
| 08.00 | Transfer to Ambarrukmo Hotel, on the way we may stop over on the Mendut temple (where 3 the temple with big statue temple in one stone are) |
| 10.00 | Arrive at Ambarrukmo Hotel |

End of service

Special thanks to:



PT Taman Wisata Candi
Borobudur, Prambanan, & Ratu Boko



Program at a Glance

Day Three: Saturday, 27 August 2016

Industry Visit : Jogja Digital Valley (Start 13.00 – Finish 17.10)		
13.00	Meeting at Royal Ambarrukmo Hotel lobby, venue of APCC 2016	
13.10-13.50	Travel from Royal Ambarrukmo Hotel to Jogja Digital Valley	
13.50-14.00	Opening by Jogja Digital Valley and Participant Introduction	
14.00-16.20	Generation X and Generation Y Perception Towards Internet of Things in Public Service <i>by Rino Ardhian Nugroho, Sebelas Maret University , INDONESIA</i>	Data Location Aware Scheduling for Virtual Hadoop Cluster Deployment on Private Cloud Computing Environment <i>by Anang Hudaya H Muhamad Amin, Multimedia University, MALAYSIA</i>
	Model to Determine the Contribution of Own Source Revenue Towards Regional Government <i>by: Sugiarto Hartono, Bina Nusantara University, INDONESIA</i>	Demonstration of Vulnerabilities in GSM Security with USRP B200 and Open-Source Penetration Tools <i>by Arusha Dubey, Nirma University, INDIA</i>
	Join My Group: Evidences of Whatsapp Use to Run a Better Breakfast Streetfood Business <i>by Nora Amal, Sebelas Maret University, INDONESIA</i>	A Location-Aware Authentication and Key Management Scheme for Wireless Sensor Network <i>by Walid Abdallah, University of Carthage, TUNISIA</i>
16.20-16.30	Closing and Photo Session	
16.30-17.10	Travel from Jogja Digital Valley to Royal Ambarrukmo Hotel	



Keynote Sessions

Day One: Thursday, 25 August 2016, 09.30 – 12.00, KARATON BALLROOM



Wireless Big Data: Transforming Cognitive Radios to Smart Networks

Ying-Chang Liang

University of Electronic Science and Technology of China



Research Collaboration in 4G/5G Mobile Networks

Kumbesan Sandrasegaran

University of Technology, Sydney, Australia



Optically powered radio-over-fiber system using double-clad fibers

Motoharu Matsuura

University of Electro-Communications, Japan

Keynote Sessions

Day Two: Friday, 26 August 2016, 08.30 – 12.00, KARATON BALLROOM



Innovation on Media & Digital Business

Indra Utoyo

Director of Digital & Strategic Portofolio,
PT.Telkom - Indonesia



5G Access Technologies in Terrestrial and Satellite Communications

Eiji Okamoto

Nagoya Institute of Technology, Japan



Reliability Analysis of the IoT Network.

Jae-Hyun Park

Chung-Ang University, South Korea



Low Complexity Iterative Receiver Design for Sparse Code Multiple Access

Wen Chen

Shanghai Jiao Tong University, China



Block Codes for Two-Dimensional Magnetic Recording

Hiroshi Kamabe

Gifu University, Japan



Research and Innovation Opportunities in Changing Air Transport

Pavel Loskot

Swansea University, UK



Tutorial Sessions

Day One: Thursday, 25 August 2016, 13.00 – 17.30, KARATON BALLROOM



**Extrinsic Information Transfer (EXIT) Analysis:
From Point-to-Point Physical Encoding to Super-
Dense Network Encoding**

Khoirul Anwar
Telkom University, Indonesia



Location Estimation in Indoor Environment

Eisuke Kudoh
Tohoku Institute of Technology, Japan



IoT Security and Privacy

Robin Doss
Deakin University, Australia



Tutorial Sessions

Day Two: Friday, 26 August 2016, 14.30 – 17.30, KARATON BALLROOM



Open APIs

Andri Qiantori
Telkom Indonesia



Wireless Power Transfer for Automated Guided Vehicles

Minoru Okada
Nara Institute of Science and Technology, Japan



Signals and Systems with Graphs

Pavel Loskot
Swansea University, UK



Optical Session

Day One: Thursday, 25 August 2016

PEMANDENGAN 1 [13.00 – 14.45]

Session Chair: Motoharu Matsuura (University of Electro-Communications, Japan)

[13.00] A Simple M-branch Diversity Receiver Model for PMD-induced Penalty Mitigation in IM-DD Optical Transmission Systems

Ahmed Galib Reza and June-Koo Kevin Rhee (KAIST, Korea)

[13.15] Evaluation of Block Turbo Codes for Long-Haul Optical Networks

Junhee Cho and Wonyong Sung (Seoul National University, Korea)

[13.30] Optimisation of Second Harmonic Generation by Using Photonic Crystal Cavity

Monia Najjar Bounouh (Syscom, Tunisia); Sana Makni (Université de Tunis El Manar, Tunisia); Taoufik Aguilil (ENIT, Tunisia)

[13.45] Slow Light Optimization in Symmetric Photonic Crystal Waveguide with Elliptical Holes

Zaineb Gharsallah (ENIT-SYSCOM, Tunisia); Monia Najjar Bounouh (Syscom, Tunisia); Vijay Janyani (Malaviya National Institute of Technology - MNIT, India)

[14.00] Performance Analysis of a 2 Tb/s DWDM System Based on Narrow Channel Spacing and Multi-Diagonal Code

Rebhi Sana (SysCom- National Engineering School of Tunis, Tunisia); Monia Najjar Bounouh (Syscom, Tunisia); Houria Rezig (National Engineering School of Tunis (ENIT), Tunisia)

[14.15] An Optical Wireless Network for Railways Condition Monitoring

Dhouha Krichen (CN&S Research Lab, Tunisia); Walid Abdallah (CN&S Research Lab., Tunisia); Noureddine A. Boudriga (University of Carthage, Tunisia)

[14.30] Performance of 40, 80 and 112 Gb/s PDM-DQPSK Optical Label Switching System with Spectral Amplitude Code Labels

Isaac Aboagyie (University of Electronics Science and Technology of China, P.R. China); Yongsheng Cao (University of Electronic Science and Technology of China, P.R. China); Fushen Chen (University of Electronic Science and Technique of China, P.R. China); Affum Emmanuel Ampoma (University of Electronics Science and Technology of China, P.R. China)

4G Enhancement & 5G (A) Session

Day One: Thursday, 25 August 2016

PEMANDENGAN 2 [13.00 - 14.45]

Session Chair: Yezid E. Donoso (Universidad de los Andes, Colombia)

[13.00] Study on Protocol and Required Bandwidth for 5G Mobile Fronthaul in C-RAN Architecture with MAC-PHY Split

Susumu Nishihara (NTT Access Network Service Systems Laboratories, Japan); Shigeru Kuwano, Kenji Miyamoto, Jun Terada and Akihiro Otaka (NTT Corporation, Japan)

[13.15] Random Linear Fountain Code with Improved Decoding Success Probability

Jalaluddin Qureshi (Namal College, Pakistan)

[13.30] Selection Model Based on Multi-Objective Evolutionary Algorithm for Coordinated Multi Point Schemes

Carlos Andres Lozano-Garzon (Universidad de Los Andes & Universitat de Girona, Colombia); Yezid E. Donoso (Universidad de los Andes, Colombia); Pere Vila (Universitat de Girona, Spain)

[13.45] Benchmarking of Real-Time LTE Network in Dynamic Environment

Ramprasad Subramanian (University of Technology Sydney, Australia); Kumbesan Sandy Sandrasegaran and Xiaoying Kong (University of Technology, Sydney, Australia)

[14.00] Making Preamble Shorter in OFDM Real-Time Wireless Control Systems

Theerat Sakdejayont, Chun-Hao Liao, Makoto Suzuki and Hiroyuki Morikawa (The University of Tokyo, Japan)

[14.15] A Multiple PRS Transmission Based Quantization Error Reduction for 3GPP LTE Systems

Hanjun Kim and Kyunghoon Lee (Sungkyunkwan University, Korea); Hyungjin Choi (SungKyunKwan University, Korea)

[14.30] Power Amplifier Configuration for Massive-MIMO Transmitter

Yasunori Suzuki (NTT DOCOMO, INC, Japan); Shoichi Narahashi (NTT Docomo, Japan)



4G Enhancement & 5G (B) Session

Day One: Thursday, 25 August 2016
PEMANDENGAN 2 [15.00 - 16.30]

Session Chair: Yao-Jen Liang (Jiangxi Normal University, China)

[15.00] Interference -Limited Radio Resources Allocation in LTE-A System with MIH Cooperation

Houda Mzoughi (LETI, University of Sfax, Tunisia); Faouzi Zarai (Sfax University, Tunisia); Lotfi Kamoun (LETI Laboratory University of Sfax Tunisia, Tunisia)

[15.15] Performance Analysis of Low Complexity Multi-User MIMO Scheduling Schemes for Massive MIMO System

Jun Shikida, Naoto Ishii and Yoshikazu Kakura (NEC Corporation, Japan)

[15.30] Performance Comparison of Packet Scheduling Algorithms in LTE-A HetNets

Ramprasad Subramanian (University of Technology Sydney, Australia); Kumbesan Sandy Sandrasegaran and Xiaoying Kong (University of Technology, Sydney, Australia)

[15.45] A Dynamic Resource Allocation Scheme in Femtocell Networks Considering User Mobility

Yao-Jen Liang and Yi-Lin Tsai (National Chiayi University, Taiwan); Kai Chiang (National Taiwan University, Taiwan)

[16.00] A Power-Distance Based Handover Triggering Algorithm for LTE-R Using WINNERII-D2a Channel Model

Ehab Ahmed Ibrahim (Arab Academy for Science and Technology, Egypt); Ehab F. Badran (Arab Academy for Science, Technology and Maritime Transport, Egypt); Mohamed Rizk (Alexandria University, Egypt)

[16.15] An Optimized Measurement Handover Procedure for High Speed Trains Using WINNERII Chanel Model

Ehab Ahmed Ibrahim (Arab Academy for Science and Technology, Egypt); Ehab F. Badran (Arab Academy for Science, Technology and Maritime Transport, Egypt); Mohamed Rizk (Alexandria University, Egypt)



Antenna & Propagation Session

Day One: Thursday, 25 August 2016
PEMANDENGAN 3 [13.00 - 14.45]

Session Chair: Zhiquan Bai (Shandong University, China)

[13.00] Monopole-Like Meander Microstrip Antenna Onboard Microsatellite for Telecommand Applications

Nayla Najati (Indonesian National Institute of Aeronautics and Space (LAPAN), Indonesia); Basari Basari (Universitas Indonesia, Indonesia); Eko Tjipto Rahardjo (University of Indonesia, Indonesia); Fitri Yuli Zulkifli (Universitas Indonesia, Indonesia)

[13.15] Effect of Partial Groundplane on 4-Element MIMO Antenna Performance for 2300 MHz (Band 40)

Subuh Pramono (Politeknik Negeri Semarang, Indonesia)

[13.30] Evaluation of Antenna Performance for Use in Wide Band Wireless Protocols

Kuruville Mathew (University Malaysia Sarawak (UNIMAS) & Swinburne University of Technology Sarawak Campus, Malaysia); Biju Issac (Teesside University, Middlesbrough, United Kingdom); Chong Eng Tan (Universiti Malaysia Sarawak, Malaysia)

[13.45] Stacked Ultra Wide Band Ring Rectangular Microstrip Antenna Fed by Coplanar Waveguide

Indra Surjati (Universitas Trisakti, Indonesia); Yuli Kurnia Ningsih (Trisakti University, Indonesia); Syah Alam (Universitas 17 Agustus 1945 Jakarta, Indonesia)

[14.00] Input Impedance Model of Planar Dipole Antenna for Wireless Body Area Network (WBAN)

Aloysius Adya Pramudita (Unika Atmajaya Indonesia, Indonesia)

[14.15] Design of Microstrip Antenna for Data Serial Communication

Rudy Yuwono and Desriyar Pratama (University of Brawijaya, Indonesia)

[14.30] Secrecy Outage Probability of Dual-hop DF Cognitive Relay Networks Under Interference Constraints

Qiqing Yang and Jie Ding (Yangzhou University, P.R. China); Jing Yang (Yangzhou University & Southeast University, P.R. China)



Antenna & Propagation Session

Day One: Thursday, 25 August 2016

PEMANDENGAN 3 [14.45 – 15.15]

Session Chair: Zhiquan Bai (Shandong University, China)

[14.45] Multiband Scheme Design for Multiple NBIs Suppression Based OS-QCC UWB System

Fantang Kong, Qi Zhang and Zhiquan Bai (Shandong University, P.R. China); Shanshan Peng (School of Information Science & Engineering, Shandong University, P.R. China); Shangqian Sun (School of Physics, Shandong University, P.R. China); Kyung Sup Kwak (Inha University, Korea)

[15.00] Side Lobe Suppression for X-Band Array Antenna Using Dolph-Chebyshev Power Distribution

Yussi Saputera (Indonesian Institute of Sciences, Indonesia); Folin Oktafiani (Indonesian Institute of Sciences (LIPI), Indonesia); Yuyu Wahyu (LIPI, Indonesia); Achmad Munir (Institut Teknologi Bandung, Indonesia)



Cloud Computing & IoT (A) Session

Day One: Thursday, 25 August 2016

PEMANDENGAN 4 [13.00 - 14.45]

Session Chair: Anang Hudaya H Muhamad Amin (Multimedia University, Malaysia)

[13.00] **Aware-D: Voice Recognition-based Driving Awareness Detection**

Yudi Phanama (University of Indonesia, Indonesia); Céécile Duthoit (INSA Toulouse, France); Riri Fitri Sari (University of Indonesia, Indonesia)

[13.15] **Joint Decoding for Multiway Multirelay Networks with Coded Random Access**

Mohammad Nur Hasan (Japan Advanced Institute of Science and Technology, Japan); Khoirul Anwar (Japan Advanced Institute of Science and Technology, Japan & Telkom University, Indonesia)

[13.30] **Data Location Aware Scheduling for Virtual Hadoop Cluster Deployment on Private Cloud Computing Environment**

Asmath Fahad Thaha, Anang Hudaya H Muhamad Amin, Subarmaniam Kannan and Nazrul Muhaimin Ahmad (Multimedia University, Malaysia)

[13.45] **Generation X and Generation Y Perception Towards Internet of Things in Public Service**

Rino Nugroho (Universitas Sebelas Maret, Indonesia); Tiyas Haryani (Sebelas Maret University, Indonesia)

[14.00] **Internet of Things: Over-the-Air (OTA) Firmware Update in Lightweight Mesh Network Protocol for Smart Urban Development**

Hans Chandra (Surya University & Panna Bali, Indonesia); Erwin Anggadaja (Lecturer, Indonesia)

[14.15] **Join My Group: Evidences of Whatsapp Use to Run a Better Breakfast Streetfood Business**

Nora Amal, Diah Kusumawati and Faizatul Ansoriyah (Universitas Sebelas Maret, Indonesia)

[14.30] **Evaluation of Cluster K-Means as VM Selection in Dynamic VM Consolidation**

Guruh Fajar Shidik, Nani Sri Sulistyowati and Manggiardi BW Tirta (Universitas Dian Nuswantoro, Indonesia)



Cloud Computing & IoT (B) Session

Day One: Thursday, 25 August 2016

PEMANDENGAN 4 [15.00 – 17.00]

Session Chair: Anang Hudaya H Muhamad Amin (Multimedia University, Malaysia)

[15.00] Deployment Models: Enhancing Security in Cloud Computing Environment

Hajar Ziglari (Najafabad Branch, Islamic Azad University, Iran)

[15.15] Access Control Framework for API-Enabled Devices in Smart Buildings

Syafril Bandara (The University of Tokyo, Japan); Takeshi Yashiro (YRP Ubiquitous Networking Laboratory, Japan); Noboru Koshizuka and Ken Sakamura (The University of Tokyo, Japan)

[15.30] Model to Determine the Contribution of Own Source Revenue Towards Regional Government

Evaristus Madyatmadja (Bina Nusantara University & School of Information Systems, Indonesia); Sugiarto Hartono (BINUS University, Indonesia)

[15.45] Cooperative Sensor-Clouds for Public Safety Services in Infrastructure-less Areas

Sarra Berrahal (Communication Networks and Security Research Lab., University of Carthage, Tunisia)

[16.00] A Novel Monitoring Solution for 6LoWPAN-based Wireless Sensor Networks

Vinh Hoa La (Telecom SudParis & Paris Saclay University, France); Raul A. Fuentes (Télécom SudParis & Tecnológico de Monterrey, Campus Monterrey, France); Ana Cavalli (Telecom SudParis, France)

[16.15] Performance Modeling and Evaluation of Real-time Traffic Status Query for Intelligent Traffic Systems

Jie Ding (Yangzhou University, P.R. China); Rui Wang (Yangzhou University, P.R. China); Xiao Chen (Jiangsu University, P.R. China)

[16.30] Modeling and Evaluating IaaS Cloud Using Performance Evaluation Process Algebra

Jie Ding (Yangzhou University, P.R. China); Leijie Sha (School of Information Engineering, Yangzhou University, P.R. China); Xiao Chen (Jiangsu University, P.R. China)

[16.45] Multi-attribute Aware Multipath Data Scheduling Strategy for Efficient MPTCP-based Data Delivery

Fenfen Ke, Minghe Huang, Zhihua Liu, Qinghua Liu and Yuanlong Cao (Jiangxi Normal University, P.R. China)



Poster Session

Day Two: Friday, 26 August 2016
KARATON BALLROOM [13.30 - 14.30]

Design and Implementation of Three Branch Line Coupler At 3.0 GHz Frequency for S-Band Radar System

Arief Budi Santiko (Indonesia Institute of Science LIPI, Indonesia); Yussi Saputera (Indonesian Institute of Sciences, Indonesia); Yuyu Wahyu (LIPI, Indonesia)

High Gain 2.4GHz Patch Antenna Array for Rural Area Application

Galih Mustiko Aji (Politeknik Negeri Cilacap, Indonesia); Muhammad Ammar Wibisono and Achmad Munir (Institut Teknologi Bandung, Indonesia)

An Empirical Investigation of Switching Intention to Private Cloud Computing in Large Enterprises

Yu-Wei Chang (China Jiliang University & China Jiliang University, P.R. China); Po-Ya Chang (School of Public Health, Taipei Medical University, Taiwan); Qian Xu (China Jiliang University, P.R. China); Kai-Hsiang Ho (Tzu Chi University of Science and Technology, Taiwan); Windy Limiati Halim (College of Law Soelthan M Tsjafioedin, Indonesia)

Highly Reliable and High-density Installation Method for Large-Scale Routers

Akira Misawa (NTT, Japan); Takeshi Osaka (Nippon Telegraph and Telephone corp. & Network Service Systems Lab., Japan); Ken Takahashi (NTT, Japan); Toru Okugawa (Nippon Telegraph and Telephone Corporation, Japan); Akio Kawabata (NTT, Japan); Masaru Katayama (NTT Network Service Systems Labs, Japan)

Coordinative Simulation with SUMO and NS3 for Vehicular Ad Hoc Networks

Wenli Zhang, Chao Peng, Lin Yang, Weiwei Liu and Xichen Wang (East China Normal University, P.R. China)

Loss-tolerant Large-scale MU-MIMO System with Rateless Space Time Block Code

Ali H. Alqahtani (College of Telecommunication and Information (CTI), Saudi Arabia); Ahmed Iyanda Sulyman and Abdulhameed Alsanie (King Saud University, Saudi Arabia)

FPP Based Waveform Coding Signals Evaluations

Chien-Hsing Liao (Fooyin University, Taiwan)



Poster Session

Day Two: Friday, 26 August 2016
KARATON BALLROOM [13.30 - 14.30]

Remote Implementation of GNU Radio-based SDR Development Environment

Hirota Suzuki, Yuusuke Kawakita and Haruhisa Ichikawa (The University of Electro-Communications, Japan)

Analysis of Equivalent Circuit for Bandpass Filter Based on SRR with Groundplane Windowing

Eki Afthar, M. Reza Hidayat and Achmad Munir (Institut Teknologi Bandung, Indonesia)

Energy Efficiency of Decode and Forward Cooperation in WSNs Over Frequency-selective Channels

Jianjie Tian, Stevan Mirko Berber and Gerard B. Rowe (University of Auckland, New Zealand)

Image Quality Improvement for GPR Acquisition Using Interpolation Method

Ilfiyantri Intyas and Kusmadi Andinata (Institut Teknologi Bandung, Indonesia);
Andriyan Suksmono (Bandung Institute of Technology, Indonesia); Achmad Munir (Institut Teknologi Bandung, Indonesia)

Signal Processing of Position Plan Indicator Display for Weather Radar

Mazaya Haryasena and Alvita Maurizka (Institut Teknologi Bandung, Indonesia);
Habibur Muhaimin (ITB, Indonesia); Achmad Munir (Institut Teknologi Bandung, Indonesia)

Analysis of Printed Patch Antenna Array for 37GHz Point-to-Point Wireless Links

Folin Oktafiani (Indonesian Institute of Sciences (LIPI), Indonesia); Yusuf Nur Wijayanto (Indonesian Institute of Sciences, Indonesia)

Networks (A) Session

Day Two: Friday, 26 August 2016

PEMANDENGAN 1 [13.30 – 15.00]

Session Chair: Yuanlong Cao (Jiangxi Normal University, China)

[13.30] On the Implementation of Path-Based Dynamic Pricing in Edge-Directed Routing

Jumpei Urakawa (KDDI R&D Laboratories, Inc., Japan); Cristina Basescu (ETH Zurich, Switzerland); Kohei Sugiyama (KDDI R&D Laboratories, Inc., Japan); Christos Pappas (ETH Zurich, Switzerland); Akira Yamada and Ayumu Kubota (KDDI R&D Laboratories Inc., Japan); Adrian Perrig (ETH Zurich Switzerland & Carnegie Mellon University, USA)

[13.45] Carry Me If You Can: A Utility Based Forwarding Scheme for Content Sharing in Tourist Destinations

Shahriar Kaiser and Joarder Kamruzzaman (Monash University, Australia); Gour Chandra Karmakar (Federation University Australia, Australia); Iqbal Gondal (Federation University, Australia)

[14.00] A Simple Algorithm of Centralized Flow Management for Data Centers

Andrei Tuchin, Masahiro Sasabe and Shoji Kasahara (Nara Institute of Science and Technology, Japan)

[14.15] OpenFlow Transparent Custom Action Extension by Using Packet-In and Click Packet Processing

Shogo Ando and Akihiro Nakao (University of Tokyo, Japan)

[14.30] Optimal Resource Allocation Scheme in Femtocell Networks Based on Bat Algorithm

Nifty Fath and I Wayan Mustika (Universitas Gadjah Mada, Indonesia); Selo Sulistyono (Gadjah Mada University, Indonesia)

[14.45] Sources Localization Through Nystrom Completion

Hesham Ahmed (University of Electronic Science and Technology of China, Sudan); Qun Wan (University of Electronic Science and Technology of China, P.R. China)



Networks (B) Session

Day Two: Friday, 26 August 2016

PEMANDENGAN 1 [15.30 - 17.30]

Session Chair: Yuanlong Cao (Jiangxi Normal University, China)

[15.30] **A Multi-channel MAC for Multi-hop Wireless Sensor Networks Minimizing Hidden Node Collision**

King Chan and Prihadi Murdiyat (Curtin University, Australia)

[15.45] **Deployment of Small Cells with Biased Density in Heterogeneous Networks**

Daehyoung Hong, Youngjin Jung, Hojin Kim, Sangheon Lee and Jaechan Lim (Sogang University, Korea)

[16.00] **Filtering Concept Improving the Angle-based Forwarding Scheme in Vehicular Ad-hoc Network Communication**

Lisa Kristiana (University of Zürich, Switzerland); Corinna Schmitt (University of Zurich, Switzerland); Burkhard Stiller (University of Zürich & ETH Zürich, TIK, Switzerland)

[16.15] **A New Content-Centric Routing Protocol for Vehicular Ad Hoc Networks**

Wenli Zhang, Xichen Wang, Weiwei Liu, Lin Yang and Chao Peng (East China Normal University, P.R. China)

[16.30] **Exploring the Flexibility of Network Access Control in the Recursive InterNetwork Architecture**

Ichrak Amdouni (LISSI, France); Fatma Hrizi (Telecom Sud Paris, France); Anis Laouiti (TELECOM SudParis, France); Eduard Grasa (Fundació i2CAT, Internet i Innovació Digital a Catalunya, Spain); Hakima Chaouchi (Telecom Sud Paris-Institut Mines Telecom & CNRS SAMOVAR, France)

[16.45] **Architectural Mechanisms for Anycast Provision in NDN**

Guoqiang Zhang (Institute of Computing Technology, Chinese Academy of Sciences, P.R. China); Desheng Qi and Qian Gao (Nanjing Normal University, P.R. China)

[17.00] **Delay Insertion Based P2PTV Traffic Localization Considering Peer's Relaying Capability**

Chitapong Wechtaisong (Shibaura Institute of Technology & Graduate School of Engineering and Science, Japan); Hiroaki Morino (Shibaura Institute of Technology, Japan)

[17.15] **A Performance Analysis of Flow-Based Routing in Software-Defined Networking**

Sofia Hertiana (Institut Teknologi Bandung & Telkom University, Indonesia); Hendrawan Hendrawan and Adit Kurniawan (Bandung Institute of Technology, Indonesia)



Networks (C) Session

Day Two: Friday, 26 August 2016

PEMANDENGAN 2 [13.30 - 14.30]

Session Chair: Pavel Loskot (Swansea University, UK)

[13.30] Efficient Compute-and-Forward Design with Low Communication Overhead

Baojian Zhou (The Hong Kong University of Science and Technology, Hong Kong);
Wai Ho Mow (Hong Kong University of Science and Technology & HKUST, Hong Kong)

[13.45] A Self-Adaptive and Energy-Efficient Wireless Multi-Hop Network

Toan Nguyen-Duc and Eiji Kamioka (Shibaura Institute of Technology, Japan)

[14.00] On the Minimum Subspace Coding Capacity of Multiplicative Finite-Field Matrix Channels with a Given Rank Distribution

Chenchen Liu (The Hong Kong University of Science & Technology, Hong Kong);
Xiaolin Li (Hong Kong University of Science and Technology, Hong Kong);
Baojian Zhou (The Hong Kong University of Science and Technology, Hong Kong);
Wai Ho Mow (Hong Kong University of Science and Technology & HKUST, Hong Kong)

[14.15] Resilience of Thick-line WSN Based Surveillance Systems Under Irregular Crossings

Imen Arfaoui (Communication Networks and Security Research Lab (CNAS). SUP'COM, Tunisia);
Noureddine Boudriga (Communication Networks and Security Research Lab., University of Carthage, Tunisia);
Khalifa Trimeche (FACULTY of SCIENCE, Tunisia)



Services Session

Day Two: Friday, 26 August 2016

PEMANDENGAN 2 [14.45 – 16.30]

Session Chair: Iwao Sasase (Keio University, Japan)

[14.45] **Cross Layered Adaptive Cooperative Routing Model in Mobile Ad Hoc Networks**

Mahadev A Gawas (BITS PILANI K K BIRLA GOA Campus, India)

[15.00] **DNS with Mapping Service in Identifier Locator Split Architecture**

Bin Da, Xiaohu Xu, Kunyang Bi and Xiuli Zheng (Beijing Huawei Digital Technologies Co., Ltd., P.R. China)

[15.15] **Practical Key Distribution Scheme with Less Dummy Tags in RFID-enabled Supply Chains**

Tatsuaki Sato, Kentaroh Toyoda and Iwao Sasase (Keio University, Japan)

[15.30] **Performance of Soft Frequency Reuse in Random Cellular Networks in Rayleigh-Lognormal Fading Channels**

Sinh Cong Lam and Kumbesan Sandy Sandrasegaran (University of Technology, Sydney, Australia); Quoc Tuan Nguyen (Viet Nam National University, Ha Noi, Vietnam)

[15.45] **A Location-Aware Authentication and Key Management Scheme for Wireless Sensor Network**

Walid Abdallah (CN&S Research Lab., Tunisia); Nouredine A. Boudriga (University of Carthage, Tunisia)

[16.00] **Demonstration of Vulnerabilities in GSM Security with USRP B200 and Open-Source Penetration Tools**

Arusha Dubey, Deepak Vohra and Khyati P Vachhani (Institute of Technology, Nirma University, India); Arvind Mallari Rao (Defense Research & Development Organisation, Ministry of Defence, GOI, India)

[16.15] **Per-Flow Entry Verification for Legacy SDN**

Sakiko Kawai (NTT, Japan); Tomoya Hibi and Yoshihiro Nakajima (NTT Network Innovation Laboratories, Japan); Hirokazu Takahashi and Yukio Tsukishima (NTT, Japan); Hitoshi Masutani (NTT Network Innovation Laboratories & NTT, Japan)



Services Session

Day Two: Friday, 26 August 2016

PEMANDENGAN 2 [16.30 – 17.30]

Session Chair: Iwao Sasase (Keio University, Japan)

[16.30] Evaluating Tor Modified Switching Algorithm in the Emulation Environment

Timothy Girry Kale (University of Electro-Communications & UEC, Japan); Satoshi Ohzahata (The University of Electro-Communications & Graduate School of Information Systems, Japan); Celimuge Wu (The University of Electro-Communications, Japan); Toshihiko Kato (University of Electro-Communications, Japan)

[16.45] Efficiency of QoE-Driven Network Management in Adaptive Streaming Over HTTP

Phan Tan (Shibaura Institute of Technology & Hanoi University of Science and Technology, Japan); Eiji Kamioka (Shibaura Institute of Technology, Japan)

[17.00] IEEE 802.15.6 Standard in Wireless Body Area Networks From a Healthcare Point of View

Ahmad Salehi Shahraki (Queensland University of Technology (QUT), Australia); Mohammad Abdur Razzaque (Trinity College, Ireland); Inmaculada Tomeo-Reyes (Queensland University of Technology, Australia); Nasir Hussain (Queensland University of Technology & IEEE Member, Australia)

[17.15] Efficient High-Rate Key Management Technique for Wireless Body Area Networks

Ahmad Salehi Shahraki (Queensland University of Technology (QUT), Australia); Mohammad Abdur Razzaque (Trinity College, Ireland); Inmaculada Tomeo-Reyes (Queensland University of Technology, Australia); Nasir Hussain (Queensland University of Technology & IEEE Member, Australia); Vahid Kaviani (Universiti Teknologi Malaysia, Malaysia)



Wireless (A) Session

Day Two: Friday, 26 August 2016

PEMANDENGAN 3 [13.30 - 15.15]

Session Chair:

[13.30] New Four-State Space-Time Trellis Codes for Multi-pair Two-way Relaying in MIMO Cooperative Networks

Yunida Yunida and Nasaruddin Nasaruddin (Syiah Kuala University, Indonesia)

[13.45] Design of WLAN Based System for Fast Protocol Factory Automation System

Astri Maria Kurniawati, Lam Duc Khai, Leonardo Jr. Lanante, Yuhei Nagao, Masayuki Kurosaki and Hiroshi Ochi (Kyushu Institute of Technology, Japan); Intan Sari Areni (Hasanuddin University, Indonesia)

[14.00] Speech Compression for Voice Cockpit Recording Over 1090 MHz ADS-B Via Satellite Reception

Fidia Triani (University of Indonesia & PT. Telkom Indonesia, Indonesia); Muhammad Suryanegara (University of Indonesia, Indonesia)

[14.15] A Coordinated Multipoint Transmission Method Employing Vehicle Position Information for Taxi Radio Systems

Keisuke Ujihara, Naoki Kurihara, Yoshinori Sakata and Fumiaki Maehara (Waseda University, Japan)

[14.30] Packet Size Optimization for Energy-Efficient 2-hop in Multipath Fading for WBAN

Nattakorn Promwongsa (Asian Institute of Technology, Thailand); Teerapat Sanguankotchakorn (Asian Institute of Technology & School of Engineering and Technology, Thailand)

[14.45] Resource Allocation for Multiuser MIMO-OFDM Systems with Various Suboptimal Detectors

Jing Mao, Chen Chen and Haige Xiang (Peking University, P.R. China)

[15.00] Receiver Antenna Synchronization and Carrier Frequency Offsets Pre-Mitigation for Distributed Massive MIMO System

Ahmad Samingan (Telekom Research & Development, Malaysia); Ishak Suleiman (TM Research and Development Sdn. Bhd., Malaysia); Chun Yeow Yeoh (Telekom Research & Development Sdn. Bhd., Malaysia); Abdul Aziz Abdul Rahman (Telekom Research & Development, Malaysia)



Wireless (B) Session

Day Two: Friday, 26 August 2016

PEMANDENGAN 3 [15.30 – 17.00]

Session Chair:

[15.30] The Pulse Duration Effect to ADS-B Via Satellite Reception: Comparison Analysis of Iridium and Globalstar

Muhammad Iskandar (Universitas Indonesia, Indonesia); Muhammad Suryanegara (University of Indonesia, Indonesia)

[15.45] Utilization of Split Ring Resonator for Compact Narrowband Microstrip Bandpass Filter

Muhammad Ammar Wibisono and Achmad Munir (Institut Teknologi Bandung, Indonesia)

[16.00] Cylindrical Coordinate System-based FDTD Method for Analysis of THz Circular Waveguide Coated by Dielectric Material

Antrisha Setiawan (Institut Teknologi Bandung (ITB), Indonesia); Achmad Munir (Institut Teknologi Bandung, Indonesia)

[16.15] Applications of G Function in Base Station Placement

Tingting Pan, Hui Zhang, Jia-yuan Hu and Mu-ze Zhao (Nankai University, P.R. China)

[16.30] Rectangular Waveguide BPF Using Split-Ring Resonators Metamaterials

M. Reza Hidayat and Achmad Munir (Institut Teknologi Bandung, Indonesia)

[16.45] Circular Sector Printed Antenna Array for S-Band Radar Application

Achmad Munir and Niken Pratiwi (Institut Teknologi Bandung, Indonesia); Antrisha Setiawan (Institut Teknologi Bandung (ITB), Indonesia)



Wireless Signal Processing Session

Day Two: Friday, 26 August 2016

PEMANDENGAN 4 [13.30 – 15.30]

Session Chair: Ki-Doo Kim (Kookmin University, Korea)

[13.30] **Soft Output Viterbi Decoding for Space-based AIS Receiver**

Taosheng Zhang, Moran Guo and Lianghai Ding (Shanghai Jiao Tong University, P.R. China); Feng Yang (Shanghai Jiaotong University, P.R. China); Liang Qian (Shanghai Jiao Tong University, P.R. China)

[13.45] **Practical Concern Analysis on the Detection Probability for Satellite-Based AIS**

Panyuan Xia, Taosheng Zhang and Lianghai Ding (Shanghai Jiao Tong University, P.R. China); Feng Yang (Shanghai Jiaotong University, P.R. China); Liang Qian (Shanghai Jiao Tong University, P.R. China); Hongxing Li (Shanghai Aerospace Electronic Technology Institute, P.R. China)

[14.00] **Research on Tone Reservation in SC-FDM System**

Miao Zhao (Shanghai Jiao Tong University, P.R. China); Feng Yang (Shanghai Jiaotong University, P.R. China); Lianghai Ding, Yufeng Guan and Liang Qian (Shanghai Jiao Tong University, P.R. China)

[14.15] **Variable Intensity-On-Off Keying Modulation and Its Application to Wearable Visual-MIMO**

Jin-San Kim, Tae-Ho Kwon and Ki-Doo Kim (Kookmin University, Korea)

[14.30] **Experimental Evaluation of a Spectrum Occupancy Rate Measurement Method Based on LSE Estimation of Gaussian Noise CDF**

Masahiro Umehira, Shota Rachi and Shigeki Takeda (Ibaraki University, Japan)

[14.45] **Three-dimensional Color Gamut for Color-space-based Modulation**

Jai-Eun Kim, Ji-Won Kim and Ki-Doo Kim (Kookmin University, Korea)

[15.00] **A Simulation Framework for Capacity Analysis in TV White Space**

Monika Jain (The LNM Institute of Information Technology, India); Vaibhav Kumar (University College Dublin, Ireland); Ranjan Gangopadhyay (The L.N.Mittal Institute of Information Technology, India); Soumitra Debnath (The LNM Institute of Information Technology, India)

[15.15] **Near Optimum MIMO Decoders for Next Generation Very High Throughput WLAN**

Wahyul Syafei (Diponegoro University, Indonesia)



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- Dr. Yik-Chung Wu, The University of Hong Kong, Hong Kong
- Dr. Ying Zhang, Hewlett Packard Labs, USA
- Dr. Yoan Shin, Soongsil University, Korea
- Dr. Yongli Zhao, Beijing University of Posts and Telecommunications, P.R. China
- Dr. Yoshiaki Kitaguchi, Information Media Center, Kanazawa University, Japan
- Dr. Yoshihiro Ohba, Toshiba, Japan
- Dr. Yoshihisa Kishiyama, NTT DOCOMO, INC., Japan
- Dr. Yoshito Kanamori, University of Alaska, Anchorage, USA
- Dr. Yosuke Tanigawa, Osaka Prefecture University, Japan
- Dr. Yuan-Kang Shih, Foxconn Advanced Communication Academy (FACA), Taiwan
- Dr. Yuansong Qiao, Athlone Institute of Technology, Ireland
- Dr. Yue Gao, Queen Mary University of London, United Kingdom
- Dr. Yufeng Xin, Renaissance Computing Institute (RENCI), USA
- Dr. Yuli Yang, University of Chester, United Kingdom
- Dr. Yulliang Tang, Xiamen University, P.R. China
- Dr. Yupeng Jia, AT&T, USA
- Dr. Yuuichi Teranishi, NICT, Japan
- Dr. Yvon Gourhant, Orange Labs, France
- Dr. Zheming Xu, Broadcom Limited, USA
- Dr. Zhenchuan Chai, SK HYNIX MEMORY SOLUTION, USA
- Dr. Zhiqiang Wu, Wright State University, USA
- Dr. Zhongshan Zhang, University of Science and Technology Beijing (USTB), P.R. China
- Dr. Zubair Fadlullah, Tohoku University, Japan
- Dr. Zuqing Zhu, University of Science and Technology of China, P.R. China
- Dr. Achmad Ali Muayyadi, Telkom University, Indonesia

Venue

ROYAL AMBARRUKMO HOTEL

Web Sites: <http://www.royalambarrukmo.com>

Jl. Laksda Adisucipto No.81 Yogyakarta, Indonesia, 55281

Phone: +62-274 488 488

Fax: +62-274 488 789

Email: info@royalambarrukmo.com

On a lively street, this luxurious hotel in a modern building is 6 km from upscale shopping at Jalan Malioboro and 7 km from Kraton Ngayogyakarta Hadiningrat, a palace dating from the 18th century.

Plush rooms with city views have free Wi-Fi, flat-screen TVs and desks. Upgraded rooms and suites add sitting areas and dining rooms. Room service is available.

There's a bright restaurant, as well as complimentary breakfast. Other amenities include a fitness room, a sauna, a spa and an outdoor pool, plus meeting space and an executive lounge.

Pendopo Ambarrukmo (Dinner Room)

The Kedaton Ambarrukmo (Royal Palace Residence) was built between 1857 and 1859 and named Pesanggrahan Arjapurna by King Hamengkubuwono VI. It functioned as a meeting venue for The Governor-General of the Dutch East Indies, as well as a resort for the royal family.

From 1895 & 1897, the palace was renovated and functioned as a meeting venue for King Hamengkubuwono VII with kings from Surakarta Palace. Later the palace became a family home for King Hamengkubuwono VII.

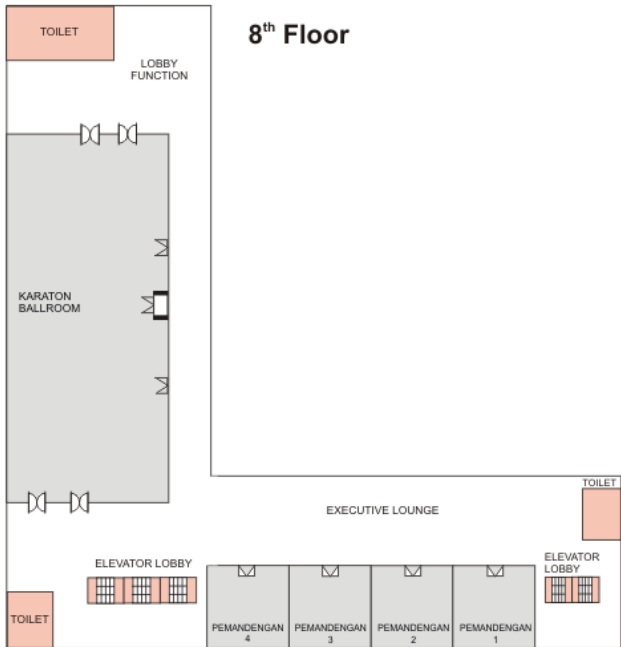
Today, the palace is registered as a National Heritage Site, which will soon be revitalized as a museum featuring its extensive art collection.

Special thanks to:



Floor Map of Conference Rooms

The picture below shows the layout of the APCC 2016 conference rooms:



Special thanks to:



Ambarrukmo Museum



The heritage site of Kedaton Ambarrukmo has now been revitalised as an integrated tourism destination, comprising of a world-class hotel (Royal Ambarrukmo Yogyakarta), a heritage museum (Museum Ambarrukmo) and an up-market shopping mall (Plaza Ambarrukmo) in Yogyakarta. From this year onwards, this heritage site is rebranded as THE AMBARRUKMO.

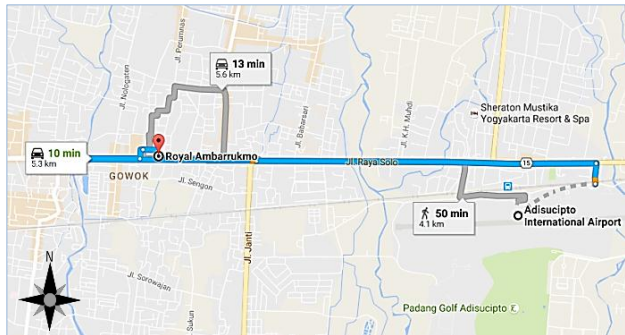
Located between the shopping mall and the hotel, Museum Ambarrukmo occupied the main building of Royal Residence, right behind the majestic Pendopo. It is inaugurated on 28 May 2013 by Sri Sultan HamengkuBuwono X, the Governor as well as the King of Yogyakarta Kingdom. In the early of 19th Century, it was the official residence of the Late Sri Sultan HamengkuBuwono VII, soon after he abdicated his crown.

As the Royal Residence, it has several big rooms that are utilized as exhibition rooms to showcase some of Indonesian Cultural Legacy, has been proclaimed and inscribed as Masterpiece of Intangible Heritage of Humanity by UNESCO: Keris, Batik and Wayang.

Special thanks to:



Transportation To and From Ambarrukmo Hotel



Conveniently located in Yogyakarta, Royal Ambarrukmo Yogyakarta Hotel is a great base from which to explore this vibrant city. It is located just a short from the airport and less than 13 minutes' drive with Taxi.

From here, guests can enjoy easy access to all that the lively city has to offer. With its convenient location, the hotel offers easy access to the city's must-see destinations.

