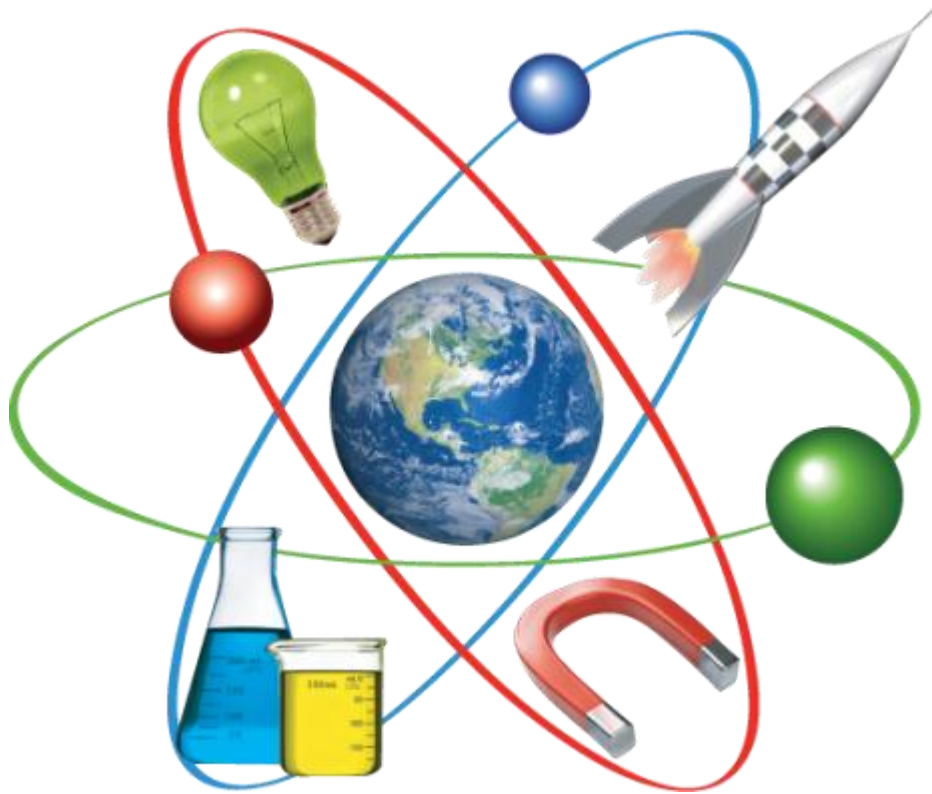


**The 6<sup>th</sup> International Conference on Science & Engineering in Mathematics, Chemistry and Physics 2018 (SciTech 2018)**

# Conference Book



**20 – 21 January 2018**

**Monas 2, Mezzanine Level – Aryaduta Hotel  
Aryaduta Hotel Jakarta  
Jl. KKO Usman & Harun 44-48 Jakarta 10110, Indonesia**

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## **Instructions for Presenters**

1. Please check this Program for your presentation time(s) and room(s). Please go to the room five minutes before the session starts and report to the Session Chair.
2. Please do not exceed your allotted time. Please follow the instructions of the Session Chair.
3. If the Session Chair(s) is/are absent from the session, the last speaker should serve as the Session Chair.

## **Instructions for Session Chairs**

Session chairs are kindly requested to do the following:

1. Calculate the time allocated for each paper in your session. The time allocated to a paper may be different in different sessions, due to uneven distributions of papers in different areas (the number to the left of a session in the "Conference Program" next page shows the number of papers allocated to this session) and a small number of absentees due to visa and other reasons.
2. Arrive at the room of the session five minutes before the session starts and identify each of the speakers for the session.
3. Do not allow presentations or the subsequent discussions to run beyond the starting time of the next presentation.
4. If the presenter of a paper is absent ("no-show"), please continue to the next presentation. Please check again at the end of the last presentation whether the "no-show" turns up. Best efforts have been made to reduce the number of no-shows; however, they may not be eliminated.
5. Each oral presentation room is equipped with an LCD projector. If something is not working properly, please contact conference staff.

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## Keynote Speakers



1.

**Prof. P. N. Gajjar**

**Head**

**Department of Physics, Electronics & Space Sciences**

**University School of Sciences, Gujarat University**

**Ahmedabad 380 009, Gujarat, India**

**Title:** Engineering Thermal Devices: Simulation experiments

Scientists have made sufficient progress in developing devices based electronics, spintronics, and photonics. But the progresses to design and develop the devices that can utilize the flow of phonons are still rare. If flow of heat in solids could be controlled as electric current in semiconductor circuits, very large numbers of innovations could happen in thermal engineering.

We know, the thermal radiation heat-ups the surface exposed by it and the efforts are always made to cool the surface. We have not made sufficient efforts to store this heat for its fruitful use at later. The first-most requirement to utilize the heat is to have a material which allows us to control the flow of heat in desire direction and/or stores the heat for longer time. At nanoscale, to study heat transport thorough a material is not an easy task because of thermal contacts to be made on nanoscale devices, heat baths and temperature sensors are to be connected at nanoscale. Not only this, the carrier of heat – Phonons is not point particle with definite properties but bundles of energy that have no mass or charge which remains unaffected by electromagnetic

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field. These are main causes why the devices that control the flow of heat in a desire manner are still not available for practical use.

Computer simulation helps in overcoming such problems. Because of some simulation studies, temperature profile, heat flux, thermal conductivity, negative differential thermal resistance, interface thermal resistance, thermal rectification are now known at nanoscale. Our results of heat transport in monoatomic, diatomic chain, linear mass graded, exponential mass graded, mass defected chain, thermal diode, and thermal transistor will be presented during the talk. Such study will help in understanding heat transport mechanism in conducting and non-conducting polymers, RNA/DNA chains, nanowires, nanotubes, etc.. Such study is useful in designing molecular/nano-heat pumps and nano-thermal devices.

## Short Bio:

NAME : GAJJAR PANKAJKUMAR NATAWARLAL

Date of Birth : 15 / 09 / 1966

Nationality : INDIAN

Educational Qualification : M. Sc., M. Phil., Ph. D.

Designation : PROFESSOR & HEAD

Experience : 27 Years of Teaching and Research

Field of Interest : Condensed Matter Theory/ Computational Materials Science /

Non-linear Dynamics

Award : Bharat Jyoti Award (2006)

Fellow : Gujarat Science Academy, Gujarat State

Best Research Paper Awards : FIVE

(1997-1998, 1999-2000, 2001-2002, 2006-2007(2))

Visiting Scientist/Fellow/Professor : Xiamen University, P. R. China – 2015

Hong Kong Baptist University, Hong Kong – 2009

National University of Singapore, Singapore- 2008

INSA Visiting Fellow 1998 -99

Academic Foreign Visits : 16

Italy (1997), Italy (2000), Vietnam (2004), Sri Lanka (2004),

France (2005), Poland (2007), Singapore (2008), Malaysia (2009),

Hong Kong (2009), Indonesia (2012), Malaysia (2013), Egypt (2015),

P. R. China (2015), Canada (2016), Uzbekistan (2017), Nepal (2017), .....

Project Coordinator: (i) Rs. 195 lakh – DST-FIST-I, DST, New Delhi

(ii) Rs 134.50 lakh+ 2 project fellows DRS-SAP-I, UGC, New Delhi

(iii) Rs 64.80 lakh – DRS-SAP-I, UGC, New Delhi

(iv) Rs.20 lakh - (infrastructure) MHRD-UGC

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(v) Rs. 91 lakh - DST-FIST-I, DST, New Delhi

Number of Research Projects completed : 07

Research Publications (International / National / State level Journals / proceedings etc.): 180+

Number of M. Phil. Dissertation guided : 15 (completed) + 03 (ongoing)

Number of Ph. D. Students guided : 09 (completed) + 08 (ongoing)

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Conferences / Symposia / Meetings etc. attended : 150+

Member of Various Academic & Professional Bodies : 25+

Committee Members of various Conferences / Seminars/ Symposia etc.: 35+

Visiting Faculty / Invited Lectures / Judge : 40+

Resource Person at Orientation & Refresher Courses : 60+

Chaired a Session : 25+

Invited Talk/ Session Invited Talk etc. : 25+

Member of Editorial Board of Research Journal : 03

Reviewer / Referee of research manuscripts : 30+

Biographic citation : 04

Books as a co-author/Editor/Subject Expert/Translation : 21

e-content Development : 09

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## 2. Dr. Fanny Hutagalung

Department of Educational Psychology and Counseling, Faculty of Education, University Malaya, Malaysia.

**Title :** Understanding the Relationship between Socioeconomic Status and Cognitive Abilities of Preschoolers

Preschool education has been gaining importance in many countries. Previous studies have explored the association between socioeconomic status (SES) and children cognitive abilities and found that parents that were involved in their children's education would influence their children's cognitive ability. Parents that are more involved in children's education do contribute to children's high levels of cognitive abilities. This study intends to examine the level of cognitive abilities among preschoolers and how it is affected by the parents socioeconomic status (SES). 100 preschoolers aged 6 years old were selected from different socioeconomic background to participate in this study. The samples were represented by 49 boys and 51 girls. The instrument used in this study was the McCharty Scales of Children Abilities (MSCA) test battery that consists of the Verbal test, Perceptual-performance test, Quantitative test and General Cognitive Index (GCI). The results showed that 41% of the preschoolers have a moderate GCI score but they scored highly in the Quantitative section. The study also found that there was a significant difference in the father's education and the children's cognitive abilities. However, no significant differences were found on the other three variables including father's income, father's occupation and mother's education. This study concluded that parents with a low level of education does not necessarily have children with low cognitive abilities. There is a need to explore other variables that would impact children's level of cognitive abilities.

## Short Bio

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Dr. Fonny Dameaty Hutagalung received the B.Sc. in Psychology (1996) from Medan Area University in Indonesia, Master and Doctor in Psychology from National University of Malaysia. She is former Head in Department of Educational Psychology and Counseling. Her research interested are Psychology and Education field especially in Early Childhood Education, Psychological testing and Behavior Analysis in Social Science and Humanities. Her name very well-known in International Book Publisher, more than 5 books published likes Taylor & Francis (United Kingdom), Springer Nature (Singapore), and Cambridge Publishing (USA). Her recent books 2017 are Social Interaction and Networking in Cyber Society, Trends and Issues in Interdisciplinary Behavior and Social Sciences and Managing Service, Education and Knowledge Management in the Knowledge Economic Era, and Research in Early Childhood Education. More than 70 research articles have been published in High Impact Journal in Thomson Reuters, Journal & Proceeding indexing Scopus.

Article Publication 2017.

Fonny Hutagalung. 2017. Parental Scaffolding in Mathematics homework among Malaysian private Preschoolers: A Case Study. International Journal of Science and Mathematics Education, 15(7), 1-24. Springer Nature.

Fonny Hutagalung. 2017. The Impact of multisensory approach on phonemic awareness skills among the indigenous preschoolers in Pulau Carey, Malaysia. Advanced Science Letters, 23, 2052-2056

Fonny Hutagalung. 2017. COGNITIVE EFFECTS OF THINKING MAPS, SIX THINKING HATS AND TAXONOMY BLOOM ON INDIGENOUS PUPILS, International Journal of Environmental and Science Education, 5(5), 118-125

Fonny Hutagalung. 2017. Level of Mathematic Abilities of Mild Autism Children on The McCarthy Scales of Children's Abilities, Mathematics Education Journal. 8(5), 248-255

Fonny Hutagalung. 2017. Teaching approaches in the classroom among preschool teacher. International Journal of academic research in business and social sciences, 7(3), 748-755.

Fonny Hutagalung. 2017. The relation of Achievement Goals and Science Achievement: The mediating role of Learning approaches". International Journal of Science and Mathematics Education. Netherlands: Springer.(Accepted Publication)

Fonny Hutagalung. 2017. Conceptual and procedural knowledge: An effectiveness study on Geo-Gebra Software. Advanced Science Letters, 24, 2060-2065.

Book Publication

Ford Lumban Gaol and Fonny Dameaty Hutagalung. (2017). Social Interactions and networking in Cyber Society. Springer. ISBN 978-981-10-4189-1.DOI 10.1007/978-981-10-4190

Ford Lumban Gaol, Fonny Hutagalung, Chew Fong Peng. Trends and Issues in interdisciplinary behavior and social sciences. 2017. UK: CRC Press. ISBN-13: 978-1138035164.

Ford Lumban Gaol, Natalia Filimonova, Fonny Hutagalung. Managing Service, Education, and Knowledge management in the Knowledge Economic Era. (2017). Netherlands: CRC Balkema. ISBN-13: 978-1138035171.

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Ford Lumban Gaol, Fonny Hutagalung, Nailya Bagautdinova, Lenar Safiullin. 2016. Social Sciences and Interdisciplinary Behavior. UK. Taylor and Francis, CRC Balkema.

Lumban Gaol & Fonny Hutagalung. 2016. Knowledge, Service, Tourism & Hospitality. UK, Taylor & Francis, CRC Balkema.

Ford Lumban Gaol & Fonny Hutagalung. 2016. Economics, Social Sciences and Information Management. CRC Press Taylor & Francis Group.

Ford Lumban Gaol & Fonny Hutagalung. 2015. Economic, Social Sciences and Information Management. CRC NetBased Press-Taylor Francis Group, UK.

Ford Lumban Gaol & Fonny Hutagalung. 2015. The Role of service in the tourism & hospitality Industry. Taylor and Francis. CRC Press, Balkema Book. Netherlands.

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**3. Prof. Kiyota Hashimoto, D.Eng.**  
Prince of Songkla University, Phuket Campus, Thailand

**Title :** IoT and a small step for social efficiency

IoT (Internet of Things), Big Data, and AI (Artificial Intelligence) are the top three buzz words in ICT research areas, and indeed a variety of applications have been realized in advanced parts of the world, both in and among countries. On the other hand, many other parts of the world still suffer from inefficiency issues at least some of which should be improved by technologies. In this talk, instead of summarizing the mainstream of IoT research, I will discuss an issue related to human flows as an example of small steps for social efficiency. Human flow is human behavior of movement and it has been already tackled both in research and commercial perspectives, but still we have inefficient building and event structure where a vast number of people makes inefficient move and congestion as a reality. I introduce a recent research to analyze such human flow, and discuss what we can.

### Short Biography

Kiyota Hashimoto, D.Eng., works at Faculty of Technology and Environment, Prince of Songkla University Phuket Campus, Thailand. He obtained his B.A. and M.A. from Kyoto University, Japan, and Doctor of Engineering from Nara Institute of Science and Technology, Japan. After 20 years' research and education at Japanese universities including Osaka Prefecture University as a full professor, he moved to Thailand in 2015. His research interest includes natural language processing, text mining, machine learning, artificial intelligence in general, e-learning, and more. He published 100+ papers at international journals and conferences. He also contributes as associate editor for some international journals, as chair for many international conferences, and as committee member for Thai, Japanese, Indonesian academic associations.

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## The 6th International Conference on Science & Engineering in Mathematics, Chemistry and Physics 2018 (ScieTech 2018) Program Schedule

Notes/Session ID

<b>Day 1: 20 January 2018</b>		
08:30 - 09:00	Registration (Open for 2 days) & Coffee - Snacks Time	
09:00 - 09:10	Opening & Welcoming Speech by General & Conference Chair	
09:10 - 09:20	Welcome Dance : Betawi Traditional Dance	
09:20- 10:00	Keynote Speaker 1 : Prof. Dr. P. N. Gajjar	
10:00 - 10:40	Keynote Speaker 1 : Dr. Fonny Hutagalung	
10:40 - 11:00	<b>Photo Session</b>	
11:00 - 12:30	Sessions: <b>Wireless Technology</b> : _____ (Session Chair)	
Monas 2	UBWCN 101	High Scalability Design of QCA Code Converter Using XOR Gate
	UBWCN 102	Implementation of Low Complexity XOR Gate Using Quantum-Dot Cellular Automata
	UBWCN103	Urban Design and Sustainable Development: focused on European Capital of Culture, Pilsen
	UBWCN 104	Prejudice as an Obstacle for Intercultural Sustainability
	UBWCN 105	Analysis of Proportional Fair Scheduling Algorithm for Long Term Evolution (LTE) Uplink
	UBWCN 106	Paralel Switch Operation Mode Rectenna (SOMR) Device for Television
	UBWCN107	Analysis of Information Communications and Technology (ICT) Business in Indonesia and Asia-Pacific
12:30 - 13:30	<b>Lunch Break</b>	
13:30 - 15:00	Sessions: <b>Science 1</b> : _____ (Session Chair)	
Monas 2	Science 111	Risk Management in Supply Chains by Providing and Using Forecast Data: An Analysis Considering Different Power Constellations
	Science 112	Non-cooperative Solution on Government Subsidy Model for Public Transportation (Case Study: Damri)
	Science 113	The Optimal Number of Server in Fleet Performance-Based Maintenance Contracts

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	Science 114	Academic Performance Ranking by the Use of the Analytic Hierarchy Process (AHP) and TOPSIS Methods
	Science 115	A Pseudo-Inverse Method as an Alternative in Forecasting Geothermal Energy Consumption and Palm Fruit Production
	Science 116	Removal Heavy Metals from Textile Wastewater using Sugarcane Bagasse Activated carbon
	Science 117	Numerical Solutions of Fractional Order Logistic Equations with Piecewise Constant Argument
	Science 118	Landau-Khalatnikov Modified Model for ZnO Ferroelectric Properties
	Science 119	Biały Jar – the most snow avalanche prone area in the Polish part of the Giant Mountains?
	Science120	Normal Estimation Equation on the Employment Rate in the Philippines from 1991 - 2016
	Science 121	Disease Dynamics with Curative and Preventive Treatments in a Two-Stage Plant Disease Model
15:00 - 15:15	<b>Coffee Break</b>	
15:15 - 18:00	Sessions: <b>Social Science 1 : _____ (Session Chair)</b>	
Monas 2	Social 101	CREATIVITY AND INOVATION AS AN INDIGENOUS PEDAGOGY METHOD
	Social102	ADULT CLASSES FOR PARENTS OF INDIGENOUS STUDENTS (KEDAP) : AN OBSERVATION ABOUT PROGRAMME PARTICIPANTS' ATTITUDES TOWARDS EDUCATION
	Social 103	The Effectiveness of Training for Parents in Improving the Social Skills of Children with Autism Spectrum Disorder
	Social 106	Sight Word Reading Approach in Reading Syllables For Children with ASD: A Case Study
	Social 107	Factor Analysis of the Companies Demands to the Polytechnic Graduates in Indonesia
	Social 108	Effectiveness of Applied Behavior Analysis and Floortime Methods Combination in Enhancing Cognitive and Functional Emotionals Ability Simultaneously of Children with Autism Spectrum Disorders
	Social 109	The Assessment of Communication Ability on Deafblind Students
	Social 111	EFFECTIVENESS OF COLLABORATIVE LEARNING MODEL BASED ON ASSESSMENT IN DYSCALCULIA STUDENT
	Social 112	Metacognitive Attitude and Knowledge of Biology Teacher Candidates
	Social 113	Exploring the Narratives on Domestic Violence Experienced by Married Immigrant Women in Korea
	Social 114	Exploring the Meaning of Care in the Teaching Case of North Korean Defector Elementary School Students

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	Social 115	THE ASSESSMENT OF SOCIAL-EMOTIONAL COMPETENCES AND SELF-DETERMINATION IN THE PREDICTION OF GIFTED ENROLLMENT
	Social 116	Forgiveness Among Maduranese Ethnic: The Relation Of Religiosity, Interpersonal Attachment, And Personality Trait
	Social 117	Designing Program to Improve Parent's Awareness Towards Autistic Child
	Social 118	Development Of Vocational Programs Culinary Based On Competence Of The World Of Work
	Social 121	A Study on the Need of Entrepreneurship Local Content Curriculum In Bandung Senior High School
19:00 - end	<b>Gala Dinner</b>	

<b>Day 2: 21 January 2018</b>		
08:30 - 09:00	Registration & Coffee - Snacks Time	
09:00 - 09:10	Welcome Remark	
09:10 - 10:00	Keynote Speaker 3 : Prof. Kiyota Hashimoto, D.Eng.	
10:00 - 10:15	<b>Coffee Break</b>	
10:15 - 12:00	Sessions: <b>Science 2 : _____ (Session Chair)</b>	
Monas 2	Science 101	Quantitative Analysis of How China's Nine Long and Mid-term Scientific & Technological Plan To Include Environment Protection: 1949-2015
	Science 102	Some properties in the non-commuting graph of a nilpotent 2-group
	Science 104	Numerical estimates of metal atom energy in reactive sputter deposition of TiN and TaN thin films
	Science 106	Ecotoxicity of Water and Sediment from Aquaculture Structures in Bunot Lake (San Pablo City, Laguna) using Zebrafish Danio rerio) Embryo Direct Contact Assay
	Science 107	Contemporary challenges on teaching electronics to STEM teachers
	Science108	Progressive structural failure of the RoRo side hull during accidental powered-bow collisions
	Science 109	Thermoluminescence Properties of Slate Relevant to Radiation Measurements
	Science 110	Dose-response of thermoluminescence in natural feldspar
12:00 - 13:00	<b>Lunch Break</b>	
13:00 - 16:00	Session : <b>Social Science 2 : _____ (Session Chair)</b>	
Monas 2	Social 110	TRAINING EFFECTIVENESS OF DIFFERENTIATED INSTRUCTION TO ENHANCE TEACHERS' ATTITUDE

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		TOWARDS INCLUSIVE SCHOOL
	Social 119	INCLUSIVE EDUCATION AS ONE OF BEST SOLUTION FOR BULLYING
	Social 120	Implementation Inclusive Education through Ecological Approach
	Social 122	Trauma Among Teachers Counseling and Religion Counseling At the Advanced School in Banda Aceh City Post-Earthquake and Tsunami
	Social 123	Mathematics Assessment Design and Implementation in SMPN X Bandung
	Social 125	Indonesia Deaf and Blind Communication System (IDBC-System)
	Social 126	Gender and Wisdom of Multicultural Counselor Candidates
	Social 127	Elderly's thought about nursing homes: A case study of Vietnamese elderly.
	Social 128	Patients' Satisfaction from Dental Services of University Health Centre, University Putra Malaysia, Malaysia
	Social 129	The Role of Schools and Parents on the Process of Entrepreneurship Learning in Children with Special Needs
	Social 130	EFFECTIVENESS MODEL OF BEHAVIOR MODIFICATIONS ON THE REDUCTION NON-ADAPTIVE BEHAVIOR OF CHILDREN WITH INTELLECTUAL DISABILITY
	Social 131	Holistic Wellness of Neglected Children
	Social 132	MODEL OF DIFFERENTIATED COUNSELING ON TEACHERS FROM STUDENTS DISABILITY OF BASIC EDUCATION IN DISTRICT BANDUNG, CIMAHU CITY, AND BANDUNG CITY
16:00 - 16:30	<b>Closing - Best Paper Award</b>	
19:00 - 20:00	<b>Dinner</b>	

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## Conference Location



### **The Arya Duta Hotel - Jakarta Indonesia**

Jakarta is officially the Special Capital Region of Jakarta, is the capital of Indonesia, formerly Batavia during Dutch East Indies. Located on the northwest coast of the world's most populous island of Java, Jakarta is the center of economics, culture and politics of Indonesia, with a population of 10,075,310 as of 2014. Greater Jakarta metropolitan area, which is known as Jabodetabek (a name formed by combining the initial syllables of Jakarta, Bogor, Depok, Tangerang and Bekasi), is the second largest urban agglomeration in the world, with a population of 30,214,303 inhabitants as of 2010 census. Jakarta's business opportunities, as well as its potential to offer a higher standard of living, attract migrants from all over the Indonesian archipelago, making it a melting pot of many communities and cultures. Jakarta is officially a province with special capital region status, yet is commonly referred to as a city. The Jakarta provincial government administers five administrative cities and one administrative regency.

**Arya Duta Hotel Jakarta.** At the very hub of the business district in the Indonesian capital city, Aryaduta Jakarta provides a close reach to all the main shopping, dining and entertainment areas. Merging comfort with convenience, its 304 tastefully furnished guest rooms and suites look out to a forever changing cityscape.

Aryaduta Jakarta is in close proximity to shopping malls that rival those in Hong Kong and Singapore, with a bewildering diversity of restaurants and nightlife at close hand, and the country's top museums and galleries with street life that offers plenty of surprises and discoveries. The hotel is approximately 45-minutes drive from Soekarno Hatta International Airport.

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