

**The 5th International Conference on Science &
Engineering in Mathematics, Chemistry and Physics 2017
(ScieTech 2017)**

Conference Book



ScieTech 2017

21 - 22 January 2017

Sedap Malam - Ramada Bintang Bali Hotel
Jl. Kartika Plaza Kuta P.O. Box 1068 Tuban Bali 80361 Indonesia
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The 5th International Conference on Science & Engineering in Mathematics, Chemistry and Physics 2017 (ScieTech 2017)

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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. Dr Igor Kotenko, St. Petersburg Institute for Informatics and Automation of Russian Academy of Sciences (SPIIRAS), Russian Federation

Title: Visual Analytics for Cyber Security: Mathematical Models, Techniques and Practical Solutions

In this talk visual analytics models, techniques and practical solutions for visualization and subsequent analysis in critical operational domains on the example of cyber security situation assessment will be considered. Methods of visual analytics can significantly improve efficiency when working with big data, as they combine the power of intelligent data processing methods, and particularities of the human visual perception of the information. In this talk we analyze existing methods of visual data analysis to solve various problems of protection against cyber attacks. The effectiveness of visual analysis is demonstrated by the example of existing and developed by the authors techniques and tools of visual analytics, including areas of network perimeter monitoring, policy assessment, vulnerability assessment, traffic analysis, attack detection, security metrics representation, fraud investigation, etc. We consider different visual models such as matrices, graphs, histograms, treemaps, spiral view, starburst, clock view, 3D scatter plots, 3D visualization, metaphoric host behavior, etc. The talk discusses a visual analytics technique implemented for displaying a set of security metrics used to assess overall computer network security status and evaluate the efficiency of protection mechanisms. The technique can assist in solving such security tasks which are important for security information and event management systems. The approach suggested is suitable for displaying security metrics of large networks and support historical analysis of the data. To demonstrate and evaluate the usefulness of the proposed technique we implemented a use case corresponding to the Olympic Games scenario and different ways of cyber attack and defense realization. The techniques are based on attack graphs and service dependencies, apply a set of different assessment levels (topological, attack graph, attacker, events, countermeasures and system) and analyze several important aspects (basic, zero day attacks, cost-efficiency characteristics). Such approach allows understanding the current security situation, including defining the vulnerable characteristics and weaknesses of the system under protection, dangerous events, current and possible cyber attack parameters, attacker intentions, integral cyber situation metrics and necessary countermeasures. This research is based on the latest

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results of the research fulfilled in St. Petersburg Institute for Informatics and Automation of Russian Academy of Sciences (SPIIRAS) by support of the grant of Russian Science Foundation #15-11-30029.

Keywords: applied mathematics and statistics, visual analytics, cyber situational awareness

Short Bio:

Igor Kotenko is a professor of computer science and Head of Research Laboratory of Computer Security Problems of the St. Petersburg Institute for Informatics and Automation of the Russian Academy of Science. He graduated with honors from St.Petersburg Academy of Space Engineering and St.Petersburg Signal Academy, obtained the Ph.D. degree and the National degree of Doctor of Engineering Science. He is the author of more than 350 refereed publications, including several study books and monographs. Igor Kotenko has a high experience in the research on computer network security and participated in several projects on developing new security technologies. For example, he was a project leader in the research projects from the US Air Force research department, via its EOARD (European Office of Aerospace Research and Development) branch, EU FP7 and FP6 Projects, HP, Intel, F-Secure, etc. The research results of Igor Kotenko were tested and implemented in multitude of Russian research and development projects. The research performed under these contracts was concerned with innovative methods for network intrusion detection, simulation of network attacks, vulnerability assessment, security protocols design, verification and validation of security policy, etc. Igor V. Kotenko is a laureate of the St. Petersburg Government award for outstanding scientific achievements in the field of science and technology, a laureate of the program "Outstanding Scientists. Doctors of Sciences of the Russian Academy of Sciences", and a winner of many grants of the Russian Foundation of Basic Research, Russian Science Foundation and several State contracts. He has chaired several conferences and workshops, and serves as editor on several editorial boards.

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2. Prof. Drs. Koentjoro Soeparno, MSc. PhD. Psikolog
Fakultas Psikologi - Universitas Gadjah Mada
Yogyakarta – Indonesia

Title : Social Change and its Impact on Education and Culture

This article will explain how social change effects education and culture. The method used in this paper is a literature review, observation and contemplation. Basically, humans beings seek comfort in their life, therefore any change will be followed by efforts of adjustment. Change is painful As such, change will always produce other changes. There are two (2) sources of social change, namely the industrial revolution in Britain and ideological consciousness of independence. The Industrial Revolution in England led to various innovations and findings in the fields of engineering, computer and information technology. Discoveries in the field of engineering made industrialization grow which consequently divided society into groups of proletarian class and the bourgeoisie. Industrialization also resulted in the exploitation of natural resources which ultimately caused global climate change. Innovation in the field of computer technology and informatics help generate global acceleration. Globalization is considered a revolution of 4T which is a revolution in telecommunications, transportation, tourism and transparency. Computer innovation and informatics create various types of social media that influence education and culture.

The second source of change is the rise of ideological consciousness of independence. History shows that many countries in the world gained its independence between 1900-1999. Gender struggles in the USA in 1907 and 1960, in Indonesia from 1870 to 1928. Anti-slavery struggle that ended in 1974. These events raise awareness of human rights and gender awareness as a counter culture. When both the source of this social change, the industrial revolution in Britain and ideological consciousness of independence interact, making the world a growing and increasingly rapid and global.

Conclusion Social change is rapidly increasing. Globalization mediated by social media leads to change in lifestyle, culture and finally the educational system. Industrialization interacts with other lifestyles, raises the issue of the exploitation of Natural Resources. The impact is the rise of new style colonization and climate change.

Keywords: social change, the industrial revolution, ideological consciousness of independence, globalization and social media.

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Short Bio

Prof. Drs. Koentjoro, MBS., Ph. D, Psikolog is The Head of Social Psychology Department Faculty of Psychology, Gadjah Mada University.

He is also The Head of Drug Abuse Prevention. Gadjah Mada University Professor in Social Psychology at the Faculty of Psychology, Gadjah Mada University.

His research Interest

Sexuality, Social and Family Psychology, Social Change and Social Policy, Qualitative Research, Social Change and Problems; Grassroots & Prostitution, Poverty, Community Planning and Interventions.

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3. AP Dr Norma Alias

Center for Sustainable Nanomaterials,
Ibnu Sina Institute for Scientific and Industrial Research,
Universiti Teknologi Malaysia

Title : Conceptual Framework for Big Data Emerging on Nanotechnology Theory, Model, Simulation using HPC System

This paper presents six variations to meet the contexts of a conceptual framework for modeling the complex systems involve nanotechnology theory, modeling, large scale numerical simulation in the real world problem. Integrated mathematical modeling and large scale numerical simulations are the tools to solve the complex systems. The conceptual framework is a comprehensive concept in theory, modeling and simulation based on high performance computing (HPC). The main objective is to improve the process of huge computation of the big data modeling and to increase the performance evaluation of parallel programming on HPC platform. The set of concepts contains the revise standard for guiding the scientific algorithm provider to model, discrete and simulate the integration of big data emerging based on parallel computing strategies. The six variations are identifying the parameter and governing the mathematical modeling for large scale complex system, transferring the continuous model, function and equation into discrete counterparts, developing the parallel algorithm and communication model, implementing the parallel program on HPC platforms, converting the discrete solution into continuous feature's existence of exact solutions in any natural phenomenon of complex systems. Last but not least is verifying and validating the numerical approximation and parallel performance evaluations. The framework organizes the idea and step to be considered for solving the integrated theory, mathematical modeling with fast numerical simulation , specific parallel computing strategy , communication software and HPC hardware system which are applicable for solving large scale nanotechnology applications. The matching skills between the numerical simulation of complex system and the computational tool such as communication model, message passing protocol, parallel programming language, memory and processor performance on HPC platform were framed for data scientist and scientific algorithm provider. This framework employs some case study approaches to

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provide an adaptation of the conceptual framework and satisfy the variation requirements. The examples for variations are presented, the performance evaluations are analyzed and the predictions of the large scale complex system are provided. As a conclusion, the conceptual framework performs more comprehensive perspective based on future software system design dealing with the next-generation of HPC architecture system.

Short Biography

A.P Dr. Norma Alias is Research Fellow at Center for Sustainable Nanomaterials, Ibnu Sina Institute for Scientific and Industrial Research, Technology University of Malaysia. Currently, she is also Associate Professor at Mathematics Science Department, Faculty of Science, Technology University of Malaysia. She received her M.S. degree and PhD from National University of Malaysia, in Computer Science and Industrial Computing. Area of research interest includes mathematical modeling and simulation, big data computing, large scale image processing, and computational nanotechnology on high performance computing system. She has published more than 160 research papers in ISI, SCOPUS, index and non-index journals. She won 9 international and local innovation medals. She has awarded as 40 active researchers in Malaysia and completed 30 research grants.

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4. Pramila. Goyal

Distinguished Professor Emeritus

The NorthCap University, Gurgaon-122017, India, E-mail*- pramila@cas.iitd.ernet.in

Formerly Professor at Centre for Atmospheric Sciences, Indian Institute of Technology Delhi, Hauz Khas, New Delhi, India – 110016,

Title : Assessment of Air Quality of Delhi Through Mathematical

This article presents a review of the different Mathematical models based on analytical solution of advection diffusion equation for dispersion of Air pollutants to determine their concentration at different locations in Delhi, which is always used for studying the air quality of Delhi.

Different mathematical techniques have been developed and used for an emission inventory of air pollutants, used as one of the input parameter in dispersion models. The major air pollutants emitted from various sources in Delhi are sulphur dioxide (SO_2), particulate matter of size 10 micron (PM_{10}) and oxides of nitrogen (NO_x). The

recent study of Air Quality Index (AQI) of Delhi, based on combined effect of SO_2 , SPM and NO_x is obtained by two different formulations, which defines the status of air Quality and has limits in numbers to represent different classes between good and severe of air quality.

Finally, Air quality, determined by air quality dispersion models in terms of concentration of air pollutants and AQI based on the same are compared and assessed for Delhi atmosphere. It has been observed that most of the Delhi's AQI was bad and severe.

Key Words: Air Quality, Models, Source Inventory, Air Quality Index. Delhi

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Short Bio

Dr. Pramila Goyal joined NCU, Gurugram on 20th August, 2015 as Distinguished Professor Emeritus in the Department of Applied Sciences & Department of Civil & Environmental Engineering. Her broad areas of research interests include: Air Pollution Modeling, Environmental Impact Assessment, Emission Inventories, Carrying / Assimilative Capacity of Urban Cities, and Environmental Management Studies.

With a total professional experience of 38 years in teaching and research, she has 55 Publications to her credit – 44 Papers in International and 11 Papers in National Journals, besides, 65 International / National Conference Papers published in the peer reviewed Conference Proceedings. She has mentored 14 Ph.D. and 17 M.Tech students, developed / taught many Courses to B.Tech, M.Tech, M.B.A. and Pre Ph.D students during her stint at IIT Delhi. She has visited numerous countries as Invited Scientist/Speaker / under Collaborative Scientific Research Projects.

Area of Expertise: Air Pollution Mathematical Modelling and Air Quality Monitoring. Air Pollution & Health.

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Conference Program

Notes/Session ID

Day 1: 21 January 2017	
08:30 - 09:00	Registration Starts (available for 2 days)
09:00 - 09:10	Opening by General Chair
09:10 - 09:15	Welcome Dance : Sekar Jagad Dance
09:15- 10:00	Keynote Speaker : AP Dr Norma Alias - Center for Sustainable Nanomaterials, Ibnu Sina Institute for Scientific and Industrial Research, Universiti Teknologi Malaysia
10:00 - 10:45	Keynote Speaker : Prof. Drs. Koentjoro Soeparno, MBSc. PhD. Psikolog - Fakultas Psikologi - Universitas Gadjah Mada
10:45 - 11:00	Photo Session & Coffee Break
11:00 - 12:00	Sessions: SocioCultural 1 (Session Chair:)
101	Physical Education In Omani Secondary Schools: Perceived Participation Barriers Among Female Students
102	I do it better: How social and emotional learning enhances Assessment for Learning strategies in science classrooms
103	Level Of Cognitive Abilities Between Normal And Mild Autism Children On The Mccarthy Scales Of Children's Abilities
107	Cognitive Effects of Thinking Maps, Six Thinking Hats And Taxonomy Bloom on Indigenuos Pupils
108	Epistemological Beliefs and Teaching Practices of ICT Teachers in Jordan
12:00 - 13:00	Lunch Break
13:00 - 14:45	Session : Mathematics (Session Chair:)
101	Projecting the Water and Electric Consumption of Polytechnic University of the Philippines – Sta. Mesa
102	Minimization of Food Cost on 2000-Calorie Diabetic Diet
112	Forecasting the Production of Palay and Corn in the Philippines: A Time Series Analysis
113	An Analysis of The Philippines Unemployment Rate: A Time Series Data Approach
115	Application of Method of Special Series for Representation of Solutions Describing Stationary Gas Flow
116	A General Model of an Open Geothermal System
121	A generalized volumetric dispersion model for a large class of two-phase separation/reaction: finite difference solutions
122	A Large-Scale Simulation of Multi-Asset Ising Financial Market
131	The Research on Informal Learning Model of College Students Based on SNS and Case Study

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	117	Astaxanthin Production from Sewage of Traditional Thai Rice Vermicelli
	118	Experimental Demonstration of the Dependence of Temperature Decrease on the Hydraulic Radius of Regenerator in a Traveling-Wave Thermoacoustic Refrigerator
	134	Combinatorial Algorithms for Portfolio Optimization Problems – Case of Risk Moderate Investor
14:45 15:00	Coffee Break	
15:00 - 17:30	Sessions: SocioCultural 2 (Session Chair:)	
	105	The relation of epistemological beliefs and science achievement: the mediating role of achievement goals and learning approaches
	118	Metacognitive Attitude and Ability of Indonesian Students and Teachers on Science Program Class
	126	Application Creation on Tablet to Promote A Classroom Research Skills for Suan Sunandha Rajabhat University' Students
	127	A Development of online lessons of the sufficiency economy philosophy for sustainability of learning
	128	A multiple intelligences development of primary students by supporting teachers and students' ability
	130	The Social and Emotional Learning Intervention Program for Reducing Risky Sexual Behaviors in Upper High School Students
	131	To study the Volumetric Soil Moisture through Microwave Remote Sensing
	132	Determination aquaculture area in Thanh Phu district, Ben Tre Province, Vietnam using Remote Sensing technology
	133	The Quality of Bachelor of Science Program in Industrial Management of Suan Sunandha Rajabhat University
	134	Cohesiveness Oral Tradition and Tradition Write: A Case Study On Expansion events and figures Gajah Mada of Majapahit in East Aceh Section
	135	Estimating Electrical Conductivity of Soil Salinity through ALOS Satellite Data Using Regression Models
	136	Species Diversity of Migratory Birds along the mangrove nature trail in Samut Songkhram Province, Thailand
	137	Participation and Guideline to Reduce the Health Effects of Pesticides on Pomelo Orchards in Amphawa District, Samut Songkhram Province
	138	Soft Skills of Polytechnic Students in Indonesia Based on Comparative Analysis Data According to the Needs of Higher Education and Workplace
	139	The Effect of Group Counseling to The Discipline Improvement of Student's Learning in Islamic Junior High School in Yogyakarta
	143	Parental Involvement and Mathematics Self-Efficacy and Prediction of Mathematics Ability in Elementary Students: Empirical Study in Sleman City, Indonesia
19:00 - 20:00	Dinner Banquet	

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Conference Program

Notes/Session ID

Day 2: 22 January 2017		
08:30 - 09:00		Registration
09:00 - 09:10		Opening by General Chair
09:10- 09:55		Keynote Speaker :Prof. Dr Igor Kotenko, St. Petersburg Institute for Informatics and Automation of Russian Academy of Sciences (SPIIRAS), Russian Federation
10:00 - 10:45		Keynote Speaker : P. Goyal, Distinguished Professor Emeritus, The NorthCap University, Gurgaon-122017, India
10:45 - 11:00		Coffee Break
11:00 - 12:00		Session : Physics 1 (Session Chair:)
	105	Laser-induced plasma emission enhanced by microwaves in argon gas for potential application of nuclear fuel material analysis
	106	Time-resolved plasma imaging in microwave-assisted laser-induced breakdown spectroscopy
	107	Automatic detection of ischemic stroke based on scaling exponent electroencephalogram using extreme learning machine
	139	Generation of Source Data for Experiments with Network Attack Detection Software
	119	Approximation solution of electromagnetic wave equation in graded interface for permeability and permittivity profile
	120	Asymptotic iteration method for solution of the Kratzer potential in D-dimensional Klein-Gordon equation
12:00 - 13:00		Lunch Break
13:00 - 15:00		Sessions: SocioCultural 3 (Session Chair:)
	144	Training for Cadre Organization to Decrease Children Malnutrition
	145	Digital Tool for knowledge transfer of Intangible Cultural Heritage in the category of traditional craftsmanship in Thailand
	147	ARIMAX versus Holt Winter Methods: The case of Blood Demand Prediction in Thailand
	148	Species Diversity and Abundance of Birds in the coastal land use, Bang Kaew Sub-district, Muang District, Samut Songkhram Province, Thailand
	149	Learning Management System for Creative Thinking Skill development with Collaborative Learning of the graduate students in Kasetsart University
	150	Psychological Capital, Technology and Media Usage, Student Engagement, and Performance Academic: Empirical Study on Students at the University

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	151	A Framework On The Relationship Between Mix Marketing Factors and R&D Commercialisation: A Proposed Study
	152	Investigating the Benefits and Effectiveness of Autograph Technology on Learning
	153	The Potential Use of ePortfolio in Supporting Collaborative Professional Learning
	154	Self-Evaluation Thai Handwriting Program using Dynamic Time Warping
	155	Identifying the Common Problem Solving Strategies in Solving Non-Routine Problems
	156	The Impact of Shell Eco-Marathon Competition on Environmental Awareness, Employability, and Academic Performance: A Global Qualitative Analysis
	157	The Human Evaluation Model (HEM)-approach for Smartphone Addiction: A grounded theory study
	158	Taubat (Repentance) and Istighfar (ask forgiveness to Allah) Therapy to Improve Subjective Well-being of Students: A Preliminary Study
	159	The Role of Sovereign Credit Default Swaps in Four Asian Stock Markets
	160	THE EFFECTIVITY OF SAP HUMAN CAPITAL MANAGEMENT FOR HUMAN RESOURCES INFORMATION SYSTEM LEARNING
	161	KNOWLEDGE ANALYSIS APPLICANTS FOR ECONOMICS STUDY AT THE UNIVERSITY OF ECONOMICS, PRAGUE
	162	MINDFULNESS IN RELATION TO THE MEANING OF LIFE OF JEMPARINGAN (MATARAMAN TRADITIONAL ARCHERY) IN THE PERSPECTIVE OF KAWRUH JIWA KI AGENG SURYOMENTARAM
	163	The Effect Of Traditional Games Intervention On Overweight Among Secondary School Students In Iran
15:00 - 15:15	Coffee Break	
15:15 - 17:00	Session : Physics 2 (Session Chair:)	
	123	Using Ag/Ag ₂ O/SnO ₂ Nanocomposites to Remove Malachite Green by a Photocatalytic Process
	125	A Computational Review of The Solar Wind in Oblate Spheroidal Coordinates Perspective
	124	The Synthesis and Characterization of Ag/Ag ₂ O/TiO ₂ /NGP Composites as Adsorbents and Photocatalysts for Wastewater Removal
	126	Dye adsorption into transition metal-doped zinc oxide nanoparticles supported on natural zeolites
	127	Multifunctional Photocatalytic Performances of Recyclable Catalyst LaMnO ₃ /Fe ₃ O ₄ on Different Effects of Graphene Surface Area
	128	Photodegradation of Methylene Blue by LaFeO ₃ /ZnO Nanocomposites under Visible and UV Light Irradiation
	129	Construction of Solvable Partner Potential of Generalized Hylleraas Potential In One Dimensional Schrodinger System

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	130	Skull outer contour extraction on CT image using compass scanning
	132	Development of Fe ₃ O ₄ /ZrO ₂ Composite Powered by Nanographene Platelets (NGP) for Environmental Remediation Applications via Photo- and Sonocatalysis
	140	Metric Tensor Approach in Solar Wind for Rapid Rotated Stellar
	133	Comparison of Photocatalytic Performance of Different Types of Graphene in Fe ₃ O ₄ /SnO ₂ Composites
17:00 - 17:30	Closing & Best Paper Award	
19:00 - 21:00	Dinner	

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Conference Location

Welcome to Ramada Bintang Bali Resort



Bali is a favorite vacation destination for many nationalities. Bali's natural attractions include miles of sandy beaches, picturesque rice terraces, towering active volcanoes over 3,000 meters high, fast flowing rivers, deep ravines, pristine crater lakes, sacred caves, and lush tropical forests full of exotic wildlife. The island's rich cultural heritage is visible everywhere – in over 20,000 temples and palaces, in many colorful festivals and ceremonies, in drama, music, and dance. Bali is also well-known for its night life. Come to Bali enjoying the beautiful environment and fun here!

Ramada Bintang Bali Resort is a beach front property in the heart of South Kuta, sets in more than six hectares of tropical gardens. The resort is conveniently located just ten minutes drive from Ngurah Rai International Airport and within a walking distance to the biggest shopping centre, the Discovery Shopping Mall and Lippo Mall Kuta. 402 rooms and suites overlook the gardens featuring contemporary Balinese furnishing plus a full range of modern amenities.

Hotel facilities include a free form swimming pool with cascading waterfall, Jacuzzi, swim-up bar, health club and sauna, beach restaurant and spa. All rooms come with balcony, tea and coffee making facilities, fridge, hair dryer, IDD phone and safe deposit box. Wi-Fi is free in all rooms and hotel's public areas.

Ramada Bintang Bali Resort

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Bali Tourist Destination Information

One of the most popular tourist destinations in the world, Bali for few years awarded as the world best island by The International Travel Magazine. There, however, are still many people who do not know in depth about the uniqueness of Balinese culture. Life in Bali is always related to Tri Hita Karana or a tripartite concept that include the spiritual relationship between human and God, and their environment.

Please visit <http://www.balitourismboard.org/> for more detail about Bali Tourism.

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