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INTERNATIONAL CONFERENCE OBJECTIVES

The conference is an interdisciplinary organization; the papers in each session are drawn from a number of disciplines. The main objective of this conference is to create an effective medium for academia and industries to present and share ideas, innovations and problem solving techniques, the results of their recent research activities in the field of applied science, engineering and technology, as well as social and human sciences.



WASET 2013 DUBAI, UAE INTERNATIONAL CONFERENCE PROGRAM

January 30-31, 2013 Crowne Plaza Dubai—Deira, Salahuddin Road, Deira, P.O. Box 8668 Dubai, UAE
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International University of Science, Engineering and Technology

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INTERNATIONAL SPECIAL JOURNAL ISSUES

A number of selected high-impact full text papers will also be considered for the special journal issues. The paper selection will be carried out during the review process as well as at the conference presentation stage. The final decision for paper selection will be made based on peer review reports by the Guest Editors and the Editor-in-Chief jointly.

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International Journal of Mathematical, Computational, Statistical and Computer Sciences

International Journal of Mechanical, Materials, Mechatronics and Aerospace Engineering

International Journal of Medical, Pharmaceutical Biological and Life Sciences

WASET 2013 CONFERENCE CALENDAR

Kualalumpur, MY; February 14-15, 2013

Barcelona, SP; February 27-28, 2013

Rio de Janeiro, BR; March 14-15, 2013

Madrid, SP; March 28-29, 2013

Venice, IT; April 14-15, 2013

Johannesburg, ZA; April 29-30, 2013

Amsterdam, NL; May 15-16, 2013

Berlin, DE; May 22-23, 2013

Tokyo, JP; May 30-31, 2013

Copenhagen, DK; June 13-14, 2013

Toronto, CA; June 20-21, 2013

Istanbul, TR; June 20-21, 2013

Paris, FR; June 27-28, 2013

London, UK; July 08-09, 2013

Stockholm, SE; July 15-16, 2013

Oslo, NO; July 22-23, 2013

Zurich, CH; July 30-31, 2013

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REMARKS: Presenters of particular session should be ready in the meeting room at least 10 minutes before the beginning of the session. Also, Presenters should introduce themselves to the session chair and upload their papers to the computer.

CONFERENCE REGISTRATION January 30, 2013 from 08:30am to 14:30pm January 31, 2013 from 08:30am to 12:00pm		
Time	Paper Title	Authors
09:00 11:00	Chair: Damien Boyer, Teodora Mocan	Session – I (Oral Presentation) HALL A – January 30, 2013
	Sexual health and reproductive ageing among rural women of Marrakech (MOROCCO)	Rania Lotfi Faculty of Science Semlalia, Univesity of Cadi Ayyad, Morocco
	Synthesis and evaluation of 3-(substituted phenyl)-N-(5-methylisoxazol-3-yl)acrylamides for antioxidant and anti-inflammatory activities	Madhavi Kuchana Sri Padmavati Mahila Visvavidyalayam (Women's University), India
	An Evaluation of Sputum Smear Conversion and Haematological Parameter Alteration in Early Detection Period of New Pulmonary Tuberculosis (PTB) Patients	Tasnuva Tamanna, Sanjida Halim Topa North South University, Bangladesh
	Depression and Adherence to Treatment in Diabetic Children and Adolescents: A Systematic Review and Meta-analysis of Observational Studies	Chuenjid Kongkaew, Katechan Jampachaisri, Chollapat A. Chaturongkul, C. Norman Scholfield Naresuan University, Thailand
	Alignment of MG-63 osteoblasts on fibronectin-coated phosphorous doping lattices in silicon	Andreas Körtge, Susanne Stähle, Regina Lange, Mario Birkholz, Mirko Fräschke, Katrin Schulz, Barbara Nebe, Patrick Elter University of Rostock, Germany
	Entrapping of lanthanide complexes into functionalized silica nanoparticles by sol-gel emulsion for early prostate cancer diagnosis	Pierre Adumeau, Damien Boyer, Jean-Louis Canet, Arnaud Gautier, Rachid Mahiou Clermont University, France
	IgG functionalized carbon nanotubes enhance production of cytokines and antitumor factors in embryonic stem cells	Teodora Mocan, Cornel Iancu, Flaviu A. Tabaran, Ilie Ioana, Rares Stiufiuc, Florin Zaharie, Dana Bartos, Lucian Mocan Iuliu Hatieganu University of Medicine and Pharmacy, Romania
	Nanotherapeutics for selective laser induced thermal lysis of Meticilin resistant Staphylococcus Aureus	Lucian Mocan, Ilie Ioana, Teodora Mocan, Flaviu A. Tabaran, Florin Zaharie, Dana Bartos, Bele Constantin, Cornel Iancu Iuliu Hatieganu University of Medicine and Pharmacy, Romania
	Thermodynamic and immunochemical studies of antibody biofunctionalized gold nanoparticles mediated photothermal ablation in human pancreatic cancer cells	Lucian Mocan, Ilie Ioana, Teodora Mocan, Flaviu A. Tabaran, Florin Zaharie, Dana Bartos, Bele Constantin, Cornel Iancu Iuliu Hatieganu University of Medicine and Pharmacy, Romania
	Rehabilitation of Liver Transplant Patients-A Systematic Review	Marwah Majdi Rashad Tarabzouni King Faisal Specialist Hospital and Research Center, Saudi Arabia
	Pediatric Oncology Rehabilitation in Saudi Arabia with emphasis on Leukemia	Samah Saud Alharbi King Faisal Specialist Hospital and Research Center, Saudi Arabia
	Screening for cancer among patients with musculoskeletal disorders in outpatient setting	Othman Alkassabi King Faisal Specialist Hospital & Research Center, Saudi Arabia
	The Effects of Neck Muscle Fatigue on the Vestibulo-Ocular Reflex in Humans	Amer A. AlSaif, Eric G. Johnson, Jill Trato King Abdulaziz University, Saudi Arabia
	Effect of Abdominal Exercises versus Abdominal Supporting Belt on Post-Partum Abdominal Efficiency and Rectus Separation	Hanan S. El-Mekawy, Abeer M. ElDeeb, Marzouk A. El-lythy, Adel F. El-Begawy Faculty of Physical Therapy, Cairo University, Egypt
	Current Trends in Medical Devices Failures and Maintenance Management Systems in Jordan	Mohammed Rawashdeh, Rami Alhadithi, Anas Harb, Ahmed Eljaloos Royal Medical Service, Jordan
11:00 11:15	Coffee Break	
11:15 13:00	Chair: Lidia Dzierzbicka-Glowacka, Ramlan Zailani	Session – II (Oral Presentation) HALL A – January 30, 2013
	Determination of Water Resources Sensitivity Index in Estako-West and Esan Central, Nigeria	P.O Idogho, Olotu Yahaya Auchi Polytechnic, Nigeria
	Evaluation the Stability of Treated Water of Main Water Treatment Plants in Babylon Governorate / Iraq	Jabbar H. Al-Baidhani, Layla Abdulkareem Mokif Babylon University, Iraq
	Natural Product as Corrosion Inhibitor for Low Carbon Steel in Aqueous Media	Kadhim F. Alsultani, Shamaa Abbas Abdalsada Babylon University, Iraq
	Effect of Oxygen on Biochar Yield and Properties	Ramlan Zailani, Halim Ghafar, M. Sofian So'aib Universiti Teknologi Mara, Malaysia

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	Solar Radiation Studies for Dubai and Sharjah, UAE	M. Akhlaque Ahmed, Sidra Afzal Shaikh Sir Syed University of Engineering and Technology, Pakistan
	Smart Sustainable Cities: an Integrated Planning Approach towards Sustainable Urban Energy Systems, India	Adinarayanane Ramamurthy, Monsingh D. Devadas School of Architecture and Planning, Anna University, India
	Integrated Modification Methodology (IMM) A phasing process for sustainable Urban Design	Massimo Tadi, Shahrooz Vahabzadeh Manesh Department of Architecture Built Environment and Construction Engineering, Politecnico di Milano, Italia
	Water-amenity Park - a Water Reclamation Method Based on Affective Engineering	Yixuan Zhang, Tokuhisa Yoashida Waseda University, Japan
	Optimizing the Rate of Hydrogen Gas Formation in a Solar Electrolysis Process	Syed Aaquib Hazari, A.M Surendra Kumar, Nambiar Shruti Surendra BITS Pilani Dubai, United Arab Emirates
	Novel inhibitor of E. coli DNA adenine methyltransferase (EcoDam)	Hany Elsaywy, Albert Jeltsch Chemistry Department, Faculty of Science, Tanta University, Egypt
	Effect of oral administration of "Gadagi" tea on liver function in rats	A. M. Gadanya, M. S. Sule, M. K. Atiku Bayero Uniersity, Kano, Nigeria
	Effect of Oral Administration of "Gadagi" Tea on the Levels of Some Hormones in Rats	A. M. Gadanya, M. S. Sule Bayero Uniersity, Kano, Nigeria
	The Application of Molecular Tools and Technologies In Root Knot Nematode Problems in Cotton Plant	Sanaa Haroon, Fatma Hamad, Mary Zaher, Reham Youssef Fayoum University, Faculty of Agriculture, Nematology and Biotechnology Lab, Fayoum City, Egypt
	Status of Thyroid Function in Elite Jordanian Athletes of Different Competitive Sports	Ahmad Bani Ata, Khalid Al Masoud Madinah Al-Monwarah Taibah University, Saudi Arabi
	The Application of Genomic and Proteomic Approaches for Meat Quality	Yalçın Tahtali, Zafer Ulutaş University of Gaziosmanpasa, Tokat, Turkey
	Bioremediation of Textile Industry Effluents Using Selected Bacterial Species in Sharada, Nigeria	A.G. Dagona, S.E. Yakubu, S. A. Ado Yobe State University, Nigeria
	Photocatalytic degradation of dye under visible light irradiation	Md. Maksudur R. Khan, Nor Amalina Hussain, Cheng C. Kui Universiti Malaysia Pahang, Malaysia
	Comparative Analysis of Farm Enterprises Performance in two Agro- Ecological Feuding Zone of Nigeria	Bolarinwa K.K., Oyeyinka R.A Federal University of Agriculture Abeokuta, Nigeria
	Sustainable Dairy Farming in Turkey	Sulhattin Yasar Suleyman Demirel University Agricultural Faculty, Turkey
	Dynamics of phytoplankton blooms in the Baltic Sea - numerical simulations	Lidia Dzierzbicka-Glowacka, Maciej Janecki Institute of Oceanology Polish Academy of Sciences, Poland
13:00 14:00	Lunch Break	
14:00 16:00	Chair: Farida Kachapova, David Allison	Session – III (Oral Presentation) HALL A – January 30, 2013
	Effect of Gravity Modulation on Weakly Non-Linear Stability of Stationary Convection in a Dielectric Liquid	P. G. Siddheshwar, B. R. Revathi Bangalore University, India
	2-Block 3-Point Modified Numerov Block Method for Solving Ordinary Differential Equations	Abdu Masanawa Sagir Hassan Usman Katsina Polytechnic , Nigeria
	Variational Iteration Method for the Solution of Boundary Value Problems	Morufu Oyedunsi Olayiwola Osun State University, Nigeria
	On hkg-closed Sets and Weakly Hausdorff Spaces	Aeshah Hassan Zakari Jazan University, Saudi Arabia
	Using Artificial Neural Networks to Assess Debate's Quality	Eugenio M. Fedriani, Fernando Fedriani Pablo de Olavide University, Spain
	Increasing the Possibilities of Neural Networks to Face Economic Problems	Eugenio M. Fedriani, Inmaculada Romano Pablo de Olavide University, Spain
	Monotonicity Criteria	Farida Kachapova, Ilias Kachapov Auckland University of Technology, New Zealand
	Dynamic Analysis of Nonlinear Models with Infinite Extension by Boundary Elements	Delfim Soares Jr, Webe J. Mansur Federal University of Juiz de Fora, Brazil
	Investigating Transformations In The Cartesian Plane Using Spreadsheets	D. Allison, A. Didenko, G. Miller The Petroleum Institute, United Arab Emirates

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09:00 09:40	KEYNOTE SPEECH - HALL B – January 30, 2013	
	SCADA System within the Smart Grid Context	Prof. A. R. Al-Ali Computer Science and Engineering Department American University of Sharjah, UAE
09:40 11:00	Chair: Sherin M. Youssef, Ghalia Nasserddine	Session – IV (Oral Presentation) HALL B – January 30, 2013
	Software Engineering Ethics in Pakistani Software Development Industry	Madeeha Fatima, Ali Afzal Malik University of Central Punjab, Pakistan
	Modeling of electric conduction in Transformer Oil	I. Boutana O. Leroy University of Jijel, Algeria
	Different Membership functions for modeling uncertainty in CFAR detection	Alioua Chehla Fouzi Soltani University of Jijel, Algeria
	Optimized Multiplier based 6-input LUTs and Vedic Mathematics	Zulhelmi Zakaria, Shuja A. Abbasi King Saud University, Kingdom of Saudi Arabia
	Soil Resistivity Structure and Its Implication on the Pole Grid Resistance for Transmission Lines	Mohamad Nassereddine, Jamal Rizk, Ghalia Nasserddine Lebanese International University (LIU), Lebanon
	Soil Resistivity Data Computations; Single and Two - Layer Soil Resistivity Structure and its Implication on Earthing Design	Mohamad Nassereddine, Jamal Rizk, Ghalia Nasserddine Lebanese International University (LIU), Lebanon
	Survey and Simulation of STDR/SSTD system and Sub-system for live aircraft wires	Sowmya Madhavan, Chirag Sharma Nitte Meenakshi Institute of Technology (An Autonomous Institution), India
	A New Fuzzy-based Self-adaptive Audio Watermarking	Sherin M. Youssef Arab Academy for Science and Technology, Egypt
11:00 11:15	Coffee Break	
11:15 13:00	Chair: Elhadj Benkhelifa, Racha El Berbari	Session – V (Oral Presentation) HALL B – January 30, 2013
	Modelling ICT adoption factors for the preservation of indigenous knowledge	Khumbuzile Monica Ngcobo, S D Eyono Obono Durban University of Technology, South Africa
	A Framework of the Factors Affecting the Adoption of ICT for Physical Education	T.T Ntshakala, S.D Eyono Obono Durban University of Technology, South Africa
	Looking Beyond Technology: A Study of E-Commerce Privacy and Security Perception	Ahmad Al-Khasawneh Hashemite University, Jordan
	Tasks of providing distributed computer system's functionality resources	Uskenbayeva R.K., Kuandykov A.A., Kalizhanova A.U., Kuandykov Ai.A., Nabiyeve G.S., Kartbayev T.S. Kozbakova A.H. Kazakh national technical university, Kazakhstan
	Simplified Solid Mechanical and Acoustic Model for Human Middle Ear	Adarsh Venkataraman Ganesan, Sundaram Swaminathan, Rama Jayaraj BITS Pilani, Dubai Campus, U.A.E.
	Design of MEMS based Micro- Hot Plate for integrated poisonous gas sensing system	Adarsh Venkataraman Ganesan, Hardeep Kumar, Sundaram Swaminathan, K. K. Singh BITS Pilani, Dubai Campus, U.A.E.
	Modeling of MEMS based Piezoresistive Fingerprint Sensor Using Open Source Circuit Simulator in QUCS	Adarsh Venkataraman Ganesan, Sundaram Swaminathan BITS Pilani, Dubai Campus, U.A.E.
	An Authentication Scheme for Ubiquitous Museum Guide System	Samyama Gunjal G H, Pallapa Venkataram, G Narendra Kumar Indian Institute of Science, India
	Estimation of Relative Self-Localization based on Natural Landmark and an Improved SURF	Xing Xiong, Byung-Jae Choi Daegu University, South Korea
	Image Clustering Framework for BAVM Segmentation in 3DRA Images: Performance Analysis	H. Sameddeen, R. El Berbari, S. Imad, J. Abdel Baki, M. Hamad, R. Blanc, A. Nakib, Y. Chenoune University of Balamand, Lebanon
	Photonic Crystal Waveguide 1x3 Flexible Power Splitter for Optical Network	Jyothi Digge, B. U. Rindhe, S. K. Narayankhedkar Sant Gadge Baba Amravati University, India
	Developing a Complex Cloud Service Delivery Platform: Practical Lessons from a Real Business Case	Elhadj Benkhelifa, Dayan Fernando Staffordshire University, UK
13:00 14:00	Lunch Break	

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14:00 16:00	Chair: Antti Lönnqvist, Hanan Qatawneh	Session – VI (Oral Presentation) HALL B – January 30, 2013
	Contemporary Muslim and Arab Governments in Theory and Practice	Labeeb Bsoul Khalifa University of Science, UAE
	Does integration increase life satisfaction?	Zsoka Koczan University of Cambridge, United Kingdom
	Knowledge Management: The Need for a Total Knowledge Transfer Model to Diffuse Innovation of the Public Health Workforce	Hanan Qatawneh, Sufian Yousef, Hassan Shirvani Anglia Ruskin University, United Kingdom
	Re-thinking Knowledge-based Management	Harri Laihonon Tampere University of Technology, Finland
	Exploring More Productive Ways of Working	Jenna Ruostela, Antti Lönnqvist Tampere University of Technology, Finland
	A study of curation interface on social networking services	Jeonghoon Lee Hongik University, South Korea
	Internal Brand Management: Way towards Living the Brand	Asha C S School of Management Studies, University of Hyderabad, Hyderabad, India
	A study on Applying Infotainment for successful image campaign of Companies -Focused on South Korean Digital device Brand site	Soyeon Nah Hong-ik University, South Korea
	Managing Iterations in Product Design and Development	K. Aravindhan, Trishit Bandyopadhyay, Mahesh Mehendale, Supriya Kumar De Xlri Jamshepur, India
	An event based approach to extract the run time execution path of BPEL process for monitoring QoS in the Cloud	Rima Grati The Faculty of Economics and Management of Sfax, Tunisia
08:30 11:00	Chair: Maria Eliophotou Menon, Fatimah Yusooff	Session – VII (Oral Presentation) HALL A – January 31, 2013
	E- Campus as an environmental and pedagogical tool for online support	Shireen Panchoo University of Technology, Mauritius
	The Efficacy of Neurological Impress Method and Repeated Reading on Reading Fluency of Children with Learning Disabilities in Oyo State, Nigeria	Oladele Adetoun Olubanke Federal College Of Education Special, Nigeria
	The Link between Distributed Leadership and Educational Outcomes: An Overview of Research	Maria Eliophotou Menon University of Cyprus, Cyprus
	Perception of Teachers of Students with Disabilities Towards Inclusive Education	Dada Olubukola Christiana Federal College of Education Special , Nigeria
	Use of a learner's log for effective self-directed learning in PBL	Amudha. Kadirvelu, Sivalal Sadasivan Monash University Sunway Campus, Malaysia
	Pharmacology Applied Learning Program in Preclinical Years – Student Perspectives	Amudha. Kadirvelu, Sunil. Gurtu, Sivalal Sadasivan Monash University Sunway Campus, Malaysia
	Influence of Intelligence in Cooperative Learning on Mathematics Achievement Of Exceptional Students	Oluseyi Akintunde Dada Federal College of Education Special, Oyo Oyo State Nigeria
	Perception of Teachers of Students with Disabilities towards Inclusive Education	Olubukola Christiana Dada Federal College of Education Special , Oyo Oyo State, Nigeria
	Development of Standard Curriculum of Thailand on Basic Computer and Internet	Narong Sompong, Saroch Sopeerak, Jongkol Kanperm, Sunchai Pattanasith, Paitoon Srifa, Nattaphon Rampai Kasetsart University, Thailand
	The Demand for an iPad Application in Secondary Level Classroom	Anusorn Hongkhunthod, Paitoon Srifa Kasetsart University, Thailand
	The Effectiveness of Person-Centered Therapy and Cognitive Psychology Ad-Din Group Counselling on Self-Concept, Depression and Resilience of Pregnant Out-of-Wedlock Teenagers	Fatimah Yusooff, Fauziah Md Saad Universiti Kebangsaan Malaysia
	Prevalence of Psychological Resistance to Voluntary Counselling and testing of HIV/AIDS among students of tertiary Institutions in Kano state, Nigeria	Abubakar Sadiq Haruna Federal College of Education, Nigeria
	Web Based Learning as a Driving Force in Teacher Training In Saudi Arabia	Ivan Kuzio 21st Century Education, UK

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	"Technology and Learning Styles in the Ge Classroom: Towards Developing Blended Learning Systems for the 21st Century Learner"	Edmund Centeno, Narong Sompong University of the Philippines Los Banos, Philippines
	Predict Adolescents' Creativity by Parenting Style	Fatimah Yusoff Universiti Kebangsaan Malaysia
	Evolution of New Technologies in Public Relations	Badreya Al-Jenaibi UAE University, Al Ain, UAE
11:00 11:15	Coffee Break	
11:15 13:00	Chair: Miemie Struwig, Harri Jalonen	Session – VIII (Oral Presentation) HALL A – January 31, 2013
	A Study on Subway Ticket Machine Design Using Video Ethnography: Focused on User Experience	Hyunji Song, Junmi Lee Hong-ik University, Seoul, South Korea
	Review of a Real-Time Infection Waste Management System using QR Code	Hiraku Nunomiya, Takuo Ichiju, Yoshiyuki Higuchi Graduate School of Symbiotic Systems Science and Technology, Fukushima University, Japan
	Study on the Design of Supermarket Store Layouts: the Principle of "Sales Magnet"	Masao Ohta, Yoshiyuki Higuchi Graduate School of Symbiotic Systems Science and Technology, Fukushima University, Japan
	A "What If" Analysis for Enhancing the International Call Promotion in Telecom Market	Rachid Elmeziane, Mohamed Bekkar ENSSEA National School of Statistics and Applied Economics, Algeria
	The Financial Viability of Sustainable Infrastructure Development at a University	Gregory Justin Ducie, Miemie Struwig Nelson Mandela Metropolitan University, South Africa
	A Theoretical Framework for Rural Tourism Motivation Factors	N. P. Tsephe, S. D. Eyono Obono Durban University of Technology, South Africa
	Study on the Design of Supermarket Store Layouts: the Principle of "Sales Magnet"	Masao Ohta, Yoshiyuki Higuchi Graduate School of Symbiotic Systems Science and Technology, Fukushima University, Japan
	Innovation and social media: Insights from complexity theory	Harri Jalonen Turku University of Applied Sciences, Finland
	Design of Cooperative Processes in Innovation	Suzanne Yaganeh, Janni Nielsen, Leif Bloch Rasmussen Aalborg University Copenhagen Department of IT, Learning & Philosophy, Denmark
	In search of the meaning of entrepreneurship	Hans Fabian Weber Rotterdam School of Management, Erasmus University, The Netherlands
	CEO Duality and Firm Performance in Nigeria: An Integration of Institutional Perceptive with Agency Theory	Augustine Ujunwa, Pius Otaru Salami, Ahmed Halidu Umar Department of Banking and Finance, University of Nigeria, Enugu Campus and Department of General Studies, Federal Polytechnic, Nigeria
	Consumer Behavior in Using Airline E-Ticketing in Malaysia	Nor Safura Khairi, Rusni Daruis, Roslina Ibrahim Advanced Informatics School (AIS), UTM KL, Malaysia
	Increasing the Heterogeneity and Competition of Early Stage Financing: An Analysis of the Role of Crowdfunding in Entrepreneurial Ventures	Lars Silver, Björn Berggren, Andreas Fili Umeå University, Sweden
	Innovation and Entrepreneurship in Local Savings Banks in Sweden: Revitalizing Local Capital Markets	Björn Berggren, Andreas Fili, Lars Silver KTH Royal Institute of Technology, Sweden
13:00 13:30	Lunch Break	
08:30 11:00	Chair: Ahmed Jaffar, Nagabhushana Ramesh Nunna	Session – IX (Oral Presentation) HALL B – January 31, 2013
	Study of reactive wetting of Sn–0.7Cu and Sn–0.3Ag–0.7Cu lead free solders during solidification on nickel coated Al substrates	Satyanarayan, K. N. Prabhu, Pradeep Bhagavath Department of Metallurgical and Materials Engineering National Institute of Technology Karnataka, India
	Wetting behavior of reactive and non–reactive wetting of liquids on metallic substrates	Pradeep Bhagavath, K. N. Prabhu and Satyanarayan Department of Metallurgical and Materials Engineering National Institute of Technology Karnataka, India
	Development of UTM Robotic Prosthetic Hand	M. Amlie A. Kasim, Ahsana Aqilah, Ahmed Jaffar, Cheng Yee Low, Roseleena Jaafar, M. Saiful Bahari, Armansyah University Teknologi MARA, Malaysia
	"Magneto Rotor"- A Paradigm Shift Proposed In Rotorcraft Propulsion Trends	Jeyaseenivas J Sri Ramakrishna Engineering College, India

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	Optimization of Hydraulic Fluid Parameters in Automotive Torque Converters	S. Venkateswaran, C. Mallika Parveen BITS - Pilani, Dubai Campus, United Arab Emirates
	Modeling and Prediction of Emissions From an Engine at Variable Mixing Ratios of Fuels and Alcohols	Mohamed A. Elhaj, Jamal S. Yassin Misurata University, Libya
	The Effect of the Direct Contact Heat Exchanger on Steam Power Plant	Mohamed A. Elhaj, Salahedin A. Aljahime Misurata University, Libya
	An experimental study and influence of BHF and die radius in deep drawing process on the springback	A. Soualem University Ferhat Abbas, Algeria
	A detailed experimental Study of the Springback Anisotropy of three metals using the Stretching-Bending process	A. Soualem University Ferhat Abbas, Algeria
	Effect of cooled EGR in combustion characteristics of a direct injection CI engine fuelled with biodiesel blend	Sankar Chandrasekar, Rana Niranchan V.S., Joseph Sidharth Leon Sri Venkateswara College of Engineering, Anna University, India
	Morphology of Machined Surfaces From Electro Discharge Sawing and Sinking Electro Discharge Machining	Nagabhushana Ramesh Nunna CMR Engineering College, India
	Studies on the effect of reinforcement of polypropylene with coir	Siva Shanker N, Vijaya Lakshmi. B, Khalid Mohamed Hassan Ali, Rajam. B Osmania University, India
	Studies on Mechanical Behavior of Double-electrode Gas Metal Arc Welded Bead-on-plates	Gururaj K. Purohit, S. Sridhar Gowda PDA College of Engineering, GULBARGA, India
	Prediction of Peening stresses in HVOF Thermal Spraying	Mehdi J. Azizpour, D. Sajedipour, H. Mohammadi Majd PTRI of ACECR, Iran
	Preparation Methods of WC-Co coating surface for Stress Evaluation using XRD	Mehdi J. Azizpour, H. Mohammadi Majd, M.M. Rabiei, D. Sajedipour, A.Jaderi PTRI of ACECR, Iran
	Fatigue Cracks in HVOF Thermally Spraying Coating	Mahdi Jalali, H. mohammadi Majd, F. Saadi, M. Fatahi Islamic Azad University Ahwaz Branch, Iran
	Decomposition of WC-Co in HVOF Spraying	S. Adel Albooshokeh, M. Ahmadi, Mehdi Jalali Islamic Azad University Dezful Branch, Iran
11:00 11:15	Coffee Break	
11:15 13:00	Chair: Geneviève Chadeyron, Giuseppe Lamanna	Session – X (Oral Presentation) HALL B – January 31, 2013
	Characterizations of Star-Shaped, L-Convex, and Convex Polygons	Thomas Shermer, Godfried T. Toussaint New York University Abu Dhabi, United Arab Emirates
	On Speeding Up Support Vector Machines: Proximity Graphs versus Random Sampling for Pre-selection Condensation	Xiaohua Liu, Juan F. Beltran, Nishant Mohanchandra, Godfried T. Toussaint New York University Abu Dhabi, United Arab Emirates
	Numerical Analysis and Experimental Validation of a Downhole Stress/Strain Measurement Tool	Abhay Raghunath Bodake Halliburton Technology Centre Pune, India
	Stress Analysis in Multicell Section under Torsion	M. Bahrami Gh. Sefidi, Mahdi Jalali, M. M. Rabiei PTRI of ACECR, Iran
	The effect of boundary conditions on higher Natural frequencies of a tube	Amna A. Algolfat Tripoli university, Libya
	Experimental Study on the Effect of Training on Performance of Shape Memory Alloy	M. Ansari, M. Golzar, A. H. Behraves Tarbiat Modares University, Department of Mechanical Engineering, Tehran, Iran
	The Significance of the Radiography Technique in the Non-destructive Evaluation of the Integrity and Reliability of Cast Interconnects	Keshav Pujeri, Pranesh Jain, Krutibas Panda Halliburton, India
	Assessment and Optimization of a Non-standard, Low-alloy Steel Used in Downhole Drilling Equipment	Ragi Poyyara, Bharat Pawar Halliburton Technology Centre, Pune, India
	Terbium alkoxide/PVP nanocomposites: a smart way to obtain flexible and thick luminescent films	Audrey Potdevin, Nathalie Caperaa, Geneviève Chadeyron, Sandrine Thérias, Rachid Mahiou Clermont University, France
	A Strategy for a Robust Design of Cracked Stiffened Panels	Giuseppe Lamanna Second University of Naples, Italy
	Environmental Factors Affecting Corrosion of 254 SMO Steel in Natural Seawater	E.A.Abd El Meguid Jazan University, KSA

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	Effects of Coupling Agent and Flame Retardant on the Performances of Oil Palm Empty Fruit Bunch Fiber Reinforced Polypropylene Composites	R. Ridzuan, M.D.H. Beg, M.Y.Rosli, M.H. Rohaya, A.A. Astimar S. Samahani, I. Zawawi Malaysian Palm Oil Board, Malaysia
	Designing of the Heating Process for Fiber-reinforced Thermoplastics with Middle-Wave Infrared Radiators	Markus Junge University of Siegen, Germany
	Analysis of failure pressures of composite cylinders with a polymer liner of Type IV CNG vessels	A. Hocine, A. Ghouaoula, F. Kara Achira, S.M. Medjdoub University Hassiba Benbouali, Algérie
	Vickers Indentation Simulation of Buffer Layer Thickness Effect for DLC Coated Materials	Abdul Wasy, Balakrishnan G., Yi Qi Wang, Atta Ur Rehman, Jung Il Song Changwon National University, Republic of Korea, Republic of Korea
	Experimental Testing of Composite Tubes with Different Corrugation Profile Subjected to Lateral Compression Load	Elfetori F. Abdewi Tripoli University, Libya
	Clean technology of spouted bed for thermal exploitation of biomass wastes in a conical combustor	María José San José, Sonia Alvarez, Iris García, F. Javier Peñas University of the Basque Country, Spain
	Performance Study of an ADHOC Network with variation of Malicious Node Speed	Mozmin Ahmed North Eastern Regional Institute of Science and Technology, India
13:00 13:30	Lunch Break	
Session Number	Paper Title	e-Session – Poster January 30-31, 2013
REMARK: POSTERS SHOULD BE 1 PAGE IN AN ELECTRONIC FORMAT (PDF). POSTER PRESENTATION WILL BE 5 MINUTES. THERE IS NO PRINT OUT DISPLAY FOR POSTERS.		
SESSION I	High Payload Dual Drug-loaded Block Ionomer Complexes Micelles for Enhanced Therapeutic Efficacy in Chemotherapy	Thiruganesh G. Ramasamy, Jeong Hwan Kim, Dae-Duk Kim, Han-Gon Choi, Chul Soon Yong, Jong Oh Kim Yeungnam University, South Korea
SESSION I	Fabrication and evaluation of pH-modulated solid dispersion for telmisartan by spray-drying technique	Thiruganesh G. Ramasamy, Jeong Hwan Kim, Dae-Duk Kim, Han-Gon Choi, Chul Soon Yong, Jong Oh Kim Yeungnam University, South Korea
SESSION I	Preparation and Characterization of Novel Docetaxel-loaded Nanoparticles for Breast Cancer Therapy	Thiruganesh G. Ramasamy, Jeong Hwan Kim, Dae-Duk Kim, Han-Gon Choi, Chul Soon Yong, Jong Oh Kim Yeungnam University, South Korea
SESSION I	A Hybrid Scheme for On-line Diagnostic Decision Making Using Optimal Data Representation and Filtering Technique	Hyun-Woo Cho Daegu University, Republic of Korea
SESSION I	Antimicrobial Activity of Ramath Extract Against Gram positive and Gram negative Bacteria	Nesrin Salem Ghnan University of Tripoli, Libya
SESSION I	Coexistence of Autoimmune Disease with Type-I Diabetes Mellitus in Libyan Patients	Ebtisam A. Abosmaha, Safa A. Almasahli, Sami G. Alsabri, Sofian S. Mohamed and Mustafa Gebreil National Medical Research Centre, Libya
SESSION II	A Hybrid Scheme for On-line Diagnostic Decision Making Using Optimal Data Representation and Filtering Technique	Hyun-Woo Cho Daegu University, Republic of Korea
SESSION II	In Vitro Production and Determination of the Nutrient Content of Wild Asparagus (<i>Asparagus stipularis</i> Forssk)	Kamile Ulukapı Akdeniz University, Turkey
SESSION II	Kinetics of Palm Oil Cracking in Batch Reactor	Farouq Twaig, Ishaq Al-Anbari, Mustafa Nasser University of Nizwa, Oman
SESSION II	Isolation and molecular identification of lactic acid bacteria from horsemeat and homemade sour cream	Markhabat Kairova Republic Collection of Microorganisms, Republic of Kazakhstan
SESSION IV	An Heuristic Optimization Algorithm for Operation of a Microgrid Including Battery Energy Storage system	Babak Mozafari, Ali Hosn Ahmadi Science and Research Branch, Iran
SESSION IV	Implementation and comparison between two algorithms of Three-Level Neutral Point Clamped Voltage Source Inverter	T. Abdelkrim, T. Benslimane, Aeh. Benkhelifa, B. Bezza, Benamrane Karima Division of Small Solar Plants, Unit of Applied Research in Renewable Energies, EPST- Center for Renewable Energy Development, Algeria
SESSION IV	Electrical Field in Electrical Power System Transmission	Sirus Mohammadi, Ezzatollah Seidi Nemati Islamic Azad University, Iran
SESSION IV	A Hybrid Scheme for On-line Diagnostic Decision Making Using Optimal Data Representation and Filtering Technique	Hyun-Woo Cho Daegu University, Republic of Korea
SESSION IV	Numerical Simulation of fluid structure interaction in stenosed arteries	Leila Bali, Mouloud Boukedjane, Lakhdar Bahi Département des Sciences Technologies , Faculté de Technologie, Université 20 Aout 1955, Algeria

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SESSION IV	Intel Xeon Phi- an Exascale Perspective	Abhishek Das, Shweta Das, Nisha Kurkure, Goldi Misra, Prasad Wadlakondawar Centre for Development of Advanced Computing, India
SESSION IV	The study of long lasting effects of repetitive transcranial magnetic stimulation (rTMS) with high frequency (20Hz) in medication-resistant major depression	Mohammad Reza Pirmoradi, Sanaz Khomami, Reza Rostami Tehran University Medical Sciences, Iran
SESSION IV	Load Frequency Control of Power Systems Using Robust Disturbance Observer	Mohammad Ghasem Kazemi, M. Ghazal Islamic Azad University, Iran
SESSION IV	A Memristor-CAM (Content Addressable Memory) Cell: New Design and Evaluation	Xiao Yang, Wanlong Chen, Frank Z. Wang University of Kent, United Kingdom
SESSION IV	An Empirical Analysis of the Relative Predictive Strength of Different Factors in Estimating Software Errors	Usman Munir Pasha, Ali Afzal Malik University of Central Punjab, Pakistan
SESSION V	A comparative study of the experiences of some Arab countries in the use of e-government program and build a model of the city of electronic \ "city of Sorman"	Sedieg Elatab Surman High Institute, Libya
SESSION VI	An Investigation into the Relationship between Attachment to God and Different Kinds of Forgiveness among Teenage Boys	Shahdokht Azadi, M. Qaracheh, F. Nahidpoor Islamic Azad University, Iran
SESSION IX	New Suspension Mechanism using Camber Thrust for a Formula car	Shinji Kajiwaru Kinki University, Japan
SESSION IX	Hot Workability of High Strength Low Alloy Steels	S. H. Min, J. H. Moon, W. Y. Jung, T. K. Ha Gangneung-Wonju National University, South Korea
SESSION IX	Static Recrystallization Behavior of Mg-Rare Earth Alloy Single Crystals	J. H. Kim, J. H. Choi, T. K. Ha Gangneung-Wonju National University, South Korea
SESSION IX	Theoretical and Experimental Analysis of Adsorption Isotherms of Building Materials	Zbyšek Pavlík, Jaromír Žumár, Milena Pavlíková, Robert Černý Czech Technical University in Prague, Czech Republic
SESSION IX	Flame Stability and Structure of Liquefied Petroleum Gas-fired Inverse Diffusion Flame with Hydrogen Enrichment	Jing Miao, C. W. Leung, C. S. Cheung, R. C. K. Leung The Hong Kong Polytechnic University, China
SESSION IX	Optimization of a hybrid wind-pv-diesel standalone system: case Chlef, Algeria	T. Tahri, A. Bettahar, M. Douani Hassiba Benbouali University, Algeria
SESSION IX	Secondary Effects on Water Vapor Transport Properties Measured by Cup Method	Z. Pavlík, J. Fořt, J. Žumár, M. Pavlíková, R. Černý Czech Technical University in Prague, Czech Republic
SESSION IX	Electronic and Optical Properties of Co doped GaN	A. Abbad, W. Benstaali, H. A. Bentounes, A. Belaidi University of Mostaganem, Algeria
SESSION IX	Magnetic And Electronic Properties of ZnO Doped TM (TM = Fe, Mn)	H.A. Bentounes, A.Abbad, W.Benstaali University of Mostaganem, Algeria
SESSION X	Fatigue Properties and Strength Degradation of Carbon Fiber Reinforced Composites	Giuseppe Lamanna Second University of Naples, Italy
SESSION X	Efficiency Improvement of the Photovoltaic Solar Cells by Antireflection Coating	Arad Azizi, Sasan Mohammadi Islamic Azad University South Tehran Branch, Iran
SESSION X	Heat recovery in cement industry	Sasan Mohammadi, Ehsan Jomehri, Alireza Hassanali Islamic Azad University South Tehran Branch, Iran
SESSION X	Carbon Dioxide recovery in Cement Industry	Sasan Mohammadi, Alireza Hassanali, Ehsan Jomehri Islamic Azad University South Tehran Branch, Iran
SESSION X	Plasma-Polymerized Toluene Films for Corrosion Inhibition by PECVD Method	Suleiman M. Elhamali Plasma Laboratories, Tripoli, Libya
	Technical Equipment 1- Laptop Computer 2- LCD Data Projector 3- USB Flash Drive - Memory 4- CD/DVD-ROM Drive	5- PowerPoint Presentation Remote with Laser Pointer 6- PowerPoint Presentation/ Acrobat Reader Software 7- Each Technical Presentation is 20 Minutes including Discussions

FOLLOWING PAGES WILL NOT BE DISTRIBUTED WITH THE CONFERENCE PROGRAM. YOU CAN TAKE A PRINT OUT IF YOU NEED.

1- Burj Khalifa & Dubai Mall & Experience The Dubai Fountain



Set on the 30-acre Burj Khalifa Lake, the fountain shoots water jets as high as 500 ft (150 metres), equivalent to that of a 50-storey building. The fountain is 900 ft (275 metres) long and has five circles of varying sizes and two central arcs. It has been designed by California-based WET, the creators of the Fountains of Bellagio in Las Vegas.

Over 6,600 WET Superlights – the most advanced incandescent large fountain lights available today – and 25 colour projectors create a visual spectrum of over 1,000 abstract attractions. The beam of light shining upward from the fountain can be seen from over 20 miles away, and will be visible from space making it the brightest spot in the Middle East, and quite possibly in the entire world.

Saturday to Thursday

01.00pm and 01.30pm

06:00pm - 11:00pm every 30 minutes

Friday

01.30pm and 2.00pm

06:00pm - 11:00pm every 30 minutes

Key Facts & Figures

- World's largest dancing fountain
- In sync with classical, Arabic and world music
- 1.5 million lumens of projected light
- Spray heights of up to 500 feet
- 22,000 gallons of airborne water
- Set in Burj Khalifa Lake, right outside The Dubai Mall on Lower Ground Waterfront Promenade in the heart of Downtown Dubai.



• By Metro

The Dubai Mall is easily accessible via the Dubai Metro. The nearest station is the Burj Khalifa Station where feeder buses direct to The Dubai Mall are frequently available.

The metro service to Burj Khalifa station starts at 6:30am daily with the last train from The Dubai Mall to Jebel Ali Station departing at 10:30pm and to Rashidiya at 10:20pm.

• By Bus

RTA Bus Service

The RTA have now commenced bus services from the Deira Gold Souk on route number 27. The buses will arrive and depart from Cinema Car Park on the Lower Ground Level every 15 minutes.

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2- The Walk at Jumeirah Beach Residence (JBR)



The Walk at Jumeirah Beach Residence is a 1.7-kilometre strip at the ground and plaza level of the complex, it was developed by Dubai Properties, and was completed by 2007 and opened officially in August 2008, currently there are Around 330 occupants at The Walk, covering a wide range of services and venues, from a number of world renowned brands strewn across the stretch, to many franchised and local venues, including restaurants, clothing stores, boutiques, department stores, cafes and gyms, among many others, located over two levels Ground and Plaza.

3- Dubai Marina



Dubai Marina is a district in the heart of what has become known as "new Dubai" in Dubai, United Arab Emirates. Dubai Marina is a canal city, carved along a two mile (3 km) stretch of Persian Gulf shoreline. Dubai Marina has been connected through the Dubai Metro's red line to the other places of Dubai.

Dubai Marina is the center of Dubai's new, fast paced business hub. The Marina's neighbors include Internet City, where the region's news and other communication professionals have made their home including Microsoft and Reuters, the renowned American University in Dubai, as well as, the forward-thinking Knowledge Village. Dubai Marina is also conveniently close to Emaar Business Park and Jebel Ali Free Zone. Journalists, students and captains of industry can often be found soaking up the unique atmosphere at the Marina or meeting for lunch at one of the waterfront restaurants. Dubai Marina can be described as a life less ordinary, where there are a multitude of activities and facilities. It offers The Promenade with many top restaurants and the boardwalk creates a dynamic area linking the gorgeous buildings, gardens and waterfront to create an extremely captivating environment.

4- The Palm Jumeirah & Atlantis, the Palm



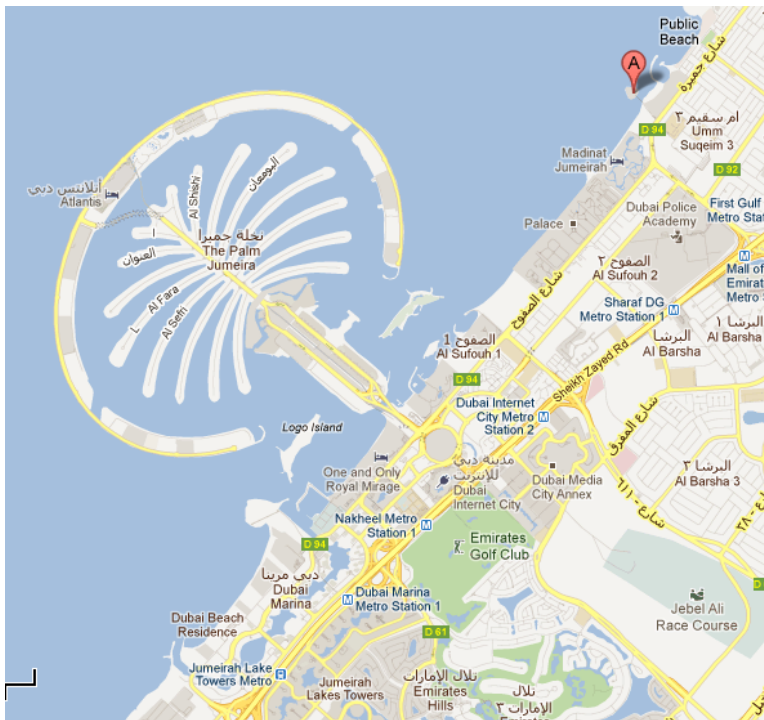
The Palm Jumeirah is an artificial archipelago created using land reclamation by Nakheel, a company owned by the Dubai government in United Arab Emirates. It is one of three islands called the Palm Islands which extend into the Persian Gulf, increasing Dubai's shoreline by a total of 520 kilometres (320 mi). The Palm Jumeirah is the smallest and the original of three Palm Islands (Palm Jumeirah, Palm Jebel Ali and Palm Deira) under development by Nakheel. It is located on the Jumeirah coastal area of the emirate of Dubai, in the United Arab Emirates (UAE). The 5.4 kilometres (3.4 mi) Palm Jumeirah Monorail, connecting the Atlantis Hotel to the Gateway Towers at the foot of the island, opened on May 6, 2009.

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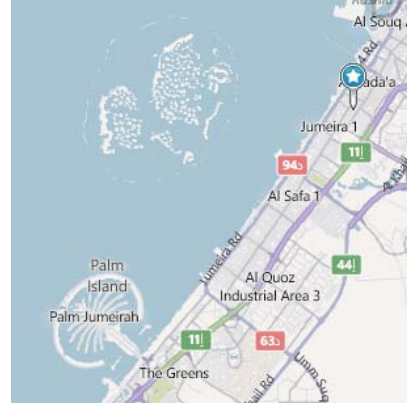
5- Burj Al Arab



Burj Al Arab is a luxury hotel located in Dubai, United Arab Emirates. At 321 m (1,053 ft), it is the fourth tallest hotel in the world. Burj Al Arab stands on an artificial island 280 m (920 ft) out from Jumeirah beach, and is connected to the mainland by a private curving bridge. The shape of the structure is designed to mimic the sail of a ship.



While "A" shows Burj Al Arab, you can see the Palm Jumeirah, Atlantis, Dubai Marina, JBR (Dubai Beach Residence) and metro stations on the map.



While "white star" shows Jumeirah mosque, World islands also can be seen in the small map.

6- Jumeirah Mosque



Jumeirah Mosque is a mosque in Dubai City. It is said that it is the most photographed mosque in all of Dubai. Jumeirah literally means "beautiful." It is a coastal residential area in Dubai, United Arab Emirates mainly comprising low rise private dwellings. It is administratively divided into three neighborhoods titled "Jumeirah 1," Jumeirah 2" and "Jumeirah 3." It has both expensive and large detached properties as well as more modest town houses built in a variety of architectural styles. The area is popular with expatriates working in the emirate and is familiar to many tourists visiting Dubai.

7- Sheikh Saeed Al Maktoum House

The Sheikh Saeed Al Maktoum house is one of the oldest house in Dubai that is one of the best examples of traditional architecture. It was built in 1896. and next to the heritage and diving village. Earlier this house was used to monitor trade

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inside and outside the country. Later on in 1986 it was converted into a museum. This imposing building has taken its name from the Sheikh who lived there till his death in 1958. This building is built in traditional manner like that of Gulf Coast. The building has two entrances the main entrance is from Creek Side while second one is from the rear side of the building specially meant for family. Here you will find remarkable carved teak doors and windows, have balustrades of railings. It has pierced gypsum screening floral and geometric designs. This house contains an exhibition illuminating Dubai's development from the time period of 1940 to late 1960.

8- Bastakiya Quarters

This is an old district built in the late 1800s. Earlier this district (quarter) was once the home of wealthy Persian merchants stands on the waterfront east of the Diwan and Dubai Souq. It features number of traditional wind tower houses. It was means of cooling houses before the coming of electricity. This quarter gives the glimpse of old Dubai. Keeping in mind its importance Dubai government has declared it as a conservation area and started its restoration work.

9- Dubai Museum

This is one of the oldest buildings in Dubai built in 1787. It depicts the rich cultural heritage of Dubai. It is located inside the Al Fahidi fort and was built against foreign invasion. As this fort is very old, government has converted this fort into a museum. In the galleries of this museum you will find Arab houses, souks, date farms, exhibits of desert and marine life and many other things. Tourists can here glimpse the rich culture and heritage life in the gulf region. To facilitate visitors at the entrance of the museum there is a map. Dubai Museum offers a unique trip to desert life, mosques, traditional Arabian homes, pearl diving, fishing, and trade. Major highlights of Dubai Museum are musical instruments and artifacts from excavated graves. Deadly weapons also form the major part of Dubai Museum, such as spears, swords, bows, shields, arrows, pistols and axes.

10- Gold and Spice Souks



Dubai Spice Souk or the Old Souk is a traditional market (or *souk*) in Dubai, United Arab Emirates (UAE). The Spice Souk is located in eastern Dubai, in Deira and is adjacent to the Dubai Gold Souk. The Spice Souk, situated on Sikkat Al Khail Road, is in the locality of Al Ras. The *souk* comprises several narrow lanes which are lined with open and closed-roof stores.

Stores in the Spice Souk sell a variety of fragrances and spices from frankincense and *shisha* to the many herbs used in Arabic and South Asian food. In addition, several textiles, incense, rugs and artefacts are also sold in the Spice Souk. A majority of the trading occurs through haggling. The quantity of trade as well as the number of stores trading spices in the Spice Souk have been significantly reduced in recent years due to the growth of larger stores and supermarkets.

The map shows Gold and Spice Souks, Dubai Museum, Heritage Village (Hatta Village; Focusing on the Emirate's past maritime, pearl diving traditions and architecture), Jumeirah Mosque and Dubai Creek (or Khor Dubai is a saltwater creek located in Dubai).

11- Dubai Sightseeing, Tours & Attractions

<http://www.owtravels.com/en/rates.php>
<http://www.city-discovery.com/dubai/>

12- Visiting Other Cities

The Government of Dubai operates a network of buses linking Dubai city with the capitals of the other six emirates of the UAE. The buses run under the name **Emirates Express** and operate from various bus terminals in Dubai.

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- **To/From Abu Dhabi:** Buses operate every 40 minutes from 6.20am from both Dubai's Al Ghubaibah bus station and Abu Dhabi's main bus station. The two-hour journey cost Dh20.
- **To/from Sharjah:** Frequent buses run between Dubai and Sharjah. There are several different routes and buses depart from various bus stations in Dubai including Al Karama, Gold Souq, Baniyas Square, Jebel Ali and Al Ittihad Square. Fares are at Dh7 as of DECEMBER 2010.
- **To/From Al Ain:** Buses operate every hour from both Dubai's Al Ghubaibah bus station. The two-hour journey cost Dh15.
- **To/from Fujairah:** The bus to Fujairah leaves from the Rashidiya Metro station and takes about 3 to 4 hours.

13- Visiting Abu Dhabi



- **Sheikh Zayed Grand Mosque** was initiated by the late President of the United Arab Emirates (UAE), HH Sheikh Zayed bin Sultan Al Nahyan. His final resting place is located on the grounds beside the same mosque. The public bus stop is a 100 metres before the mosque and after that is no stop for the next 5km.

Some Key Architectural Features

- ✓ The Sheikh Zayed Grand Mosque has many special and unique elements: The carpet in the main prayer hall is considered to be the world's largest carpet made by Iran's Carpet Company and designed by Iranian artist Ali Khaliqui. This carpet measures 5,627 m² (60,570 sq ft), and was made by around 1,200-1,300 carpet knotters. The weight of this carpet is 35 ton and is predominantly made from wool (originating from New Zealand and Iran). There are 2,268,000,000 knots within the carpet and it took approximately two years to complete.
- ✓ The Sheikh Zayed Grand Mosque has seven imported chandeliers from Germany that incorporate millions of Swarovski crystals. The largest chandelier is the second largest known chandelier inside a mosque, the third largest in the world and has a 10 m (33 ft) diameter and a 15 m (49 ft) height.
- ✓ The pools along the arcades reflect the Mosque's spectacular columns, which becomes even more glorious at night. The unique lightning system was designed by lightning architects Jonathon Speirs and Major to reflect the phases of the moon. Beautiful bluish gray clouds are projected in lights onto the external walls and get brighter and darker according to the phase of the moon.
- ✓ The 96 columns in the main prayer hall are clad with marble and inlaid with mother of pearl, one of the few places where you will see this craftsmanship.
- ✓ The 99 names (qualities or attributes) of Allah (God) are featured on the Qibla wall in traditional Kufi calligraphy, designed by the prominent UAE calligrapher - Mohammed Mandi Al Tamimi. The Qibla wall also features subtle fibre-optic lighting, which is integrated as part of the organic design.
- ✓ In total, three calligraphy styles - Naskhi, Thuluth and Kufi – are used throughout the mosque and were drafted by Mohammed Mandi Al Tamimi UAE, Farouk Haddad Syria and Mohammed Allam Jordan
- **Corniche:** The Corniche is a long road that extends almost 6 km or 4 miles from the Sheraton Hotel to the Hilton Hotel. There are several gardens lined all along the Corniche around the coastal boulevard that borders the city. The ruler of Abu Dhabi, Sheikh Zayed Bin Sultan Al Nahyan, loves greenery and gardens and fountains are the result of that love. The other important feature of the city is the fountains and can be seen on every intersection of the Corniche. With the modern buildings facing the sea for the background, it is one of the most picturesque sites in Abu Dhabi. Some of the sensational sandy beaches of Abu Dhabi are located along the seafront Corniche.
- **Flagpole:** At 123m, this was among the world's tallest flagpoles where UAE flag hanging off it. On Marina Island across from Marina Mall.
- **Khalifa Park,** (off Al Salam St (8th) near the Grand Mosque). The best park by far, built at a cost of \$50 million. Has its own aquarium, museum, train, play parks and formal gardens.
- **Yas Island:** The island is the site of a US\$36 billion development project by Aldar Properties. It occupies a total land area of 2,500 hectares, of which 1,700 hectares will be claimed for development. The island holds the Yas

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Island Circuit, which hosts the Formula One Abu Dhabi Grand Prix since 2009. It will also feature attractions such as Warner Bros. Movie World, a movie theme park by Warner Bros, Ferrari World, hotels including Yas Marina Hotel, a water park, and Yas Mall, the Abu Dhabi destination retail development of 300,000 sq m retail area; links and parkland golf courses, lagoon hotels, marinas, polo clubs, apartments, villas and food and beverage outlets that will create a tourist destination. Yas Island was named the World's leading tourism project at the World Travel Awards in November 2009.

- Ferrari World:** The indoor theme park is located on Yas Island in Abu Dhabi, part of the United Arab Emirates. It is approximately 10 minutes from the Abu Dhabi International Airport, 30 minutes from the center of Abu Dhabi, and 50 minutes from Dubai. Ferrari World Abu Dhabi features Formula Rossa, the world's fastest roller coaster. It is designed to travel at speeds up to 240 km/h (149 mph).



Blue sign shows us the Sheikh Zayed Grand Mosque.