The international conference is a multidisciplinary organization of a number of specific conference themes and topics; and the high impact full text papers in each session are drawn from a number of disciplines and research fields. The objective of the international conference is to bring together leading scientists, researchers, scholars and practitioners from academia and industry to present their recent momentous scientific advances & findings and discuss future trends, directions and new challenges in science, engineering and technology. The conference aims to promote global exchange of good practices.
**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, 2014 from 08:30am to 12:00pm**
- **January 31, 2014 from 08:45am to 12:00pm**

<table>
<thead>
<tr>
<th>Time</th>
<th>Paper Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>09:00</strong></td>
<td><strong>Chair: Eugenia P. Ramirez, Liepa Bikulciene</strong></td>
<td>Session - I (Oral Presentation) HALL A - January 30, 2014</td>
</tr>
<tr>
<td><strong>11:00</strong></td>
<td>Solving SPDEs by Least Squares Method</td>
<td>Hassan Manouzi, Laval University, Canada</td>
</tr>
<tr>
<td></td>
<td>A Horn Antenna Loaded with FSS of Crossed Dipoles</td>
<td>I. El-Mongy, A. M. M. A. Allam, GUC, Egypt</td>
</tr>
<tr>
<td></td>
<td>A Study on Implementation of Optimal Soldering Temperature Profile through Deformation Analysis in Infrared Lamp Soldering of Photovoltaic Cells</td>
<td>Taejung Lho, Jonghwan Lee, Tongmyong University, Republic of Korea</td>
</tr>
<tr>
<td></td>
<td>Optimal Dynamic Economic Load Dispatch Using Artificial Immune System</td>
<td>Ibrahim. A. Farhat, Al-Mergib University, Libya</td>
</tr>
<tr>
<td></td>
<td>Numerical Analysis of the Effects of Transpiration on Transient/Steady Natural Convection Flow of Reactive Viscous Fluid in a Vertical Channel Formed by Two Vertical Porous Plates</td>
<td>Samaila Ahmad, Usman Danfodiyo University, Nigeria</td>
</tr>
<tr>
<td></td>
<td>LabSupport: A Computer Laboratory Class Management Support System</td>
<td>Eugenia P. Ramirez, Kevin Matthe Caramancion, Mia Eleazar, University of Santo Tomas, Philippines</td>
</tr>
<tr>
<td></td>
<td>FPGA Implementation of RSA Encryption Algorithm for E-passport Application</td>
<td>Khaled Shehata, Hanady Hussien, Sara Yehia, New Cairo, Egypt</td>
</tr>
<tr>
<td></td>
<td>Use of Satellite Imaging to Understand Earth's Surface Features: A Roadmap</td>
<td>Sabri Serkan Gulluoglu, Istanbul Arel University, Turkey</td>
</tr>
<tr>
<td></td>
<td>Internet Protocol Television: A Research Study of Undergraduate Students Analyze the Effects</td>
<td>Sabri Serkan Gulluoglu, Istanbul Arel University, Turkey</td>
</tr>
<tr>
<td></td>
<td>Rough Neural Networks in Adapting Cellular Automata Rule for Reducing Image Noise</td>
<td>Yasser F. Hassan, Alexandria University, Egypt</td>
</tr>
<tr>
<td></td>
<td>On the Approximate Solution of Continuous Coefficient for Solving Third Order Ordinary Differential Equations</td>
<td>A.M. Sagir, Hassan Usman Katsina Polytechnic, Nigeria</td>
</tr>
<tr>
<td></td>
<td>Discrete-Time Bulk Queue with Service Capacity Depending On Previous Service Time</td>
<td>Yutae Lee, Dongeui University, Republic of Korea</td>
</tr>
<tr>
<td></td>
<td>The Estimation of Human Vital Signs Complexity</td>
<td>L. Bikulciene, E. Venskaityte, G. Jarusevicius, Kaunas University of Technology, Lithuania</td>
</tr>
<tr>
<td><strong>11:00</strong></td>
<td><strong>Coffee Break</strong></td>
<td></td>
</tr>
<tr>
<td><strong>11:15</strong></td>
<td><strong>Chair: Gehan Ahmed, Adel Alajtal, Monika Przeor</strong></td>
<td>Session - II (Oral Presentation) HALL A - January 30, 2014</td>
</tr>
<tr>
<td><strong>13:00</strong></td>
<td>The Use of an Extract from the Polish Variety of White Mulberry Leaves in Flat Bread of Paratha Type</td>
<td>Monika Przeor, Poznan University of Life Sciences, Poland</td>
</tr>
<tr>
<td></td>
<td>Evaluation of Attribute II Bt Sweet Corn Resistance and Risk-reduced Insecticide Applications for Control of Corn Earworm</td>
<td>R. Weinzierl, M. Keshlaf, R. Estes, N. Tinsley, University of Tripoli, Libya</td>
</tr>
<tr>
<td></td>
<td>Effects of Modified Bottom Boards On the Performance of Honeybee Colonies</td>
<td>M. Keshlaf, R. Spooner-Hart, University of Tripoli, Libya</td>
</tr>
<tr>
<td></td>
<td>Beekeeping in Libya</td>
<td>M. Keshlaf, University of Tripoli, Libya</td>
</tr>
<tr>
<td></td>
<td>Antiglycemic Activity of Raw Plant Materials as Potential Components of Functional Food</td>
<td>Ewa Flaczyk, Poznan University of Life Sciences, Poland</td>
</tr>
<tr>
<td>Title</td>
<td>Authors</td>
<td>Institution</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>---------------------------------------------------------------------------------------------</td>
<td>-------------------------------------------------</td>
</tr>
<tr>
<td>Vibrational Spectroscopic Identification of Beta-Carotene in Usnic Acid and Pahs as a Potential Martian Analogue</td>
<td>A.I. Ala'jtal, H.G.M. Edwards, M.A. Elbagermi</td>
<td>Misurata University, Libya</td>
</tr>
<tr>
<td>Optimization of Process Parameters Affecting Biogas Production from Organic Fraction of Municipal Solid Waste Via Anaerobic Digestion</td>
<td>Saejena Beevi, Jose P.P., G. Madhu</td>
<td>Government Engineering College, India</td>
</tr>
<tr>
<td>FT-Raman and Terahertz Study of Calcium Sulphate Dihydrate Doped with Lepidium sativum Water Extract for Bone Grafting</td>
<td>Gehan A. Raouf, Hana Gashlan, Hind Al-Jabbri</td>
<td>King Abdulaziz University, Saudi Arabia</td>
</tr>
<tr>
<td>Genotoxicity of 4-Nonylphenol (4NP) on Oreochromus pluvius Fish</td>
<td>Mona Mohammed Zaid Al-Sharif</td>
<td>King Abdulaziz University, Saudi Arabia</td>
</tr>
<tr>
<td>Solid Lipid Nanoparticles of Levamisole Hydrochloride</td>
<td>Surendra Agrawal, Pravina Gurjar, Supriya Bhide, Ram Gaud</td>
<td>SPPSPTM, NMIMS, India</td>
</tr>
<tr>
<td>Stomach Specific Delivery of Andrographolide from Floating In Situ Gelling System</td>
<td>Pravina Gurjar, Bothiraja Pour, Vijay Kumbhar, Ganesh Dama</td>
<td>S P College of Pharmacy, India</td>
</tr>
<tr>
<td>Evaluation Of Hepatic Antioxidant Changes In Oxine Dicroceliosis</td>
<td>Arash Jafari, Somayeh Bahrami, Mohammad Hossein Razi Jalali</td>
<td>Shahid Chamran University of Ahvaz, Iran</td>
</tr>
<tr>
<td>Biocompatibilities of Various Calcium Silicate Cements</td>
<td>Seok Woo Chang, Kee Yeon Kum, Kwang Shik Bae, WooCheol Lee</td>
<td>Kyung Hee University, Republic of Korea</td>
</tr>
<tr>
<td>Hydrogel Hybridizing Temperature-Cured Dissolvable Gelatin Microspheres as Non-Anchorage Dependent Cell Carriers for Tissue Engineering Applications</td>
<td>Dong-An Wang</td>
<td>Nanyang Technological University, Singapore</td>
</tr>
<tr>
<td>Lunch Break</td>
<td></td>
<td></td>
</tr>
<tr>
<td>09:00 - 11:00 Session - III (Oral Presentation)</td>
<td></td>
<td>HALL A – January 31, 2014</td>
</tr>
<tr>
<td>Consumer Behavior Towards Online Shopping in Kuwait: A Quantitative Analysis</td>
<td>Mitra Arami</td>
<td>American University of the Middle East, Kuwait</td>
</tr>
<tr>
<td>Teacher Education: Exploring the Challenges of the Teaching Profession in Nigeria for Sustainable National Development</td>
<td>Ugabi, John Ikab, Odey, Boniface Ugbehn</td>
<td>F.C.E. OBUDU, Nigeria</td>
</tr>
<tr>
<td>An Analysis of the Effectiveness and Cost Benefit of an Enhanced Recovery Programme for Knee Arthroplasty</td>
<td>Abigail Clark-Morgan</td>
<td>NHS, United Kingdom</td>
</tr>
<tr>
<td>The Effects of Health Education Programme on Knowledge and Prevention of Cerebrovascular Disease among Hypertensive Patients in University College Hospital, Ibadan</td>
<td>Ajbioye T.A.</td>
<td>Oyo State Ministry of Health, Nigeria</td>
</tr>
<tr>
<td>Effects of Virtual Reality Treadmill Training on Gait and Balance Performance of Patients with Stroke (Review)</td>
<td>Hanan Algarni</td>
<td>King Fahad Medical City, Saudi Arabia</td>
</tr>
<tr>
<td>Impact of Stressors on Turnover Intention: Examining the Role of Employee Well-Being</td>
<td>Tooba Qasim, Uzma Javed, Muhammad Saferd Shafi</td>
<td>CIIT, Pakistan</td>
</tr>
<tr>
<td>Examining the Impact of Training on Turnover Intention in Project Based Organizations</td>
<td>Muhammad Saferd Shafi, Uzma Javed, Tooba Qasim</td>
<td>CIIT, Pakistan</td>
</tr>
</tbody>
</table>

**Program Last Updated: January 28, 2014**
| e-POSTER | The Effects of Fearing Cancer in Women | Evangelia Kotrotsiou  
TEI of Thessaly, Greece |
|----------|--------------------------------------|-------------------------|
| e-POSTER | The Role of Identifications in Women Psychopathology | Gouva, M., Dragioti E., Kotrotsiou, E.  
TEI of Epirus, Greece |
| Knowledge Management in Agro-alimentary Companies in Algeria | Radia Bernaoui Mohamed Hassoun  
ENSV, Algeria |
| Policy of Tourism and Opportunities of Development of Wellness Industry in Georgia | G. Erkomaishvili, R. Gvelesiani, E. Kharaishvili, M. Chavleishvili  
Ivane Javakhishvili Tbilisi State University, Georgia |
| Improving Customer Service through Empathy | Abiola Olukemi Ogunyemi  
Lagos Business School, Nigeria |
| Economic Indicators As Correlates of Inward Foreign Direct Investment In Nigeria | Popoola, C.F., Osho, P. Babarinde, S.B.  
Potab International Research, Nigeria |
| Providing a Road Pricing and toll Allocation Method for Toll Roads | Ali Babaei  
Semnan Branch, Iran |
| Studying the Influence of the Intellectual Assets on Strategy Implementation (Case Study: Modiran Ideh Pardaz Company) | Farzam Chakherlouy  
MIPV, Iran |

### Session – IV (Oral Presentation)  
**HALL A – January 31, 2014**

| 11:00 – 11:15 | **Chair: Mohammad Irshidat, Ajit D. Kelkar**  
Coffee Break |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11:15 – 13:00</td>
<td><strong>Session – IV (Oral Presentation)</strong></td>
</tr>
</tbody>
</table>
| Condensation of Moist Air in Heat Exchanger Using CFD | Dan Barak, Karel Frana, Joerg Stiller  
Technical University in Liberec, Czech Republic |
| Experimental and Numerical simulations of the flow field and thermal behavior around the rings of mechanical seals | Hossein Shokouhmand, Masoomeh Shadab, Rohollah Torabi  
Tehran University, Iran |
| An Optimization model for Natural Gas Supply Chain through a Cost Approach under Uncertainty | Ali Azadeh, Zeinab Raooofi  
University of Tehran, Iran |
| Providing a Linear Fuzzy Mathematical Model for Natural Gas Transportation Networks | Ali Azadeh, Zeinab Raooofi  
University of Tehran, Iran |
| Presenting a Multi-objective Fuzzy Linear Programming Model for Optimization of Natural Gas Supply Chain through a Greenhouse Gas Reduction Approach | Ali Azadeh, Zeinab Raooofi  
University of Tehran, Iran |
| Effect of TEOS Electrospun Nanofiber Modified Resin on Interlaminar Shear Strength of Glass Fiber/Epoxy Composite | Dattaji K. Shinde, Ajit D. Kelkar  
Joint School of Nanoscience and Nanoengineering, United States |
| Simulation of Hydrogenated Boron Nitride Nanotube’s Mechanical Properties for Radiation Shielding Applications | Joseph E. Estevez, Mahdi Ghazizadeh, James G. Ryan, Ajit D. Kelkar  
Joint School of Nanoscience and Nanoengineering, United States |
| Flexural Behavior of Heat-Damaged Concrete Beams Reinforced with Fiber Reinforced Polymer (FRP) Bars | Mohammad R. Irshidat, Rami H. Haddad, Hanadi Al-Mahmoud  
Jordan University of Science and Technology, Jordan |
| Study of the Green Composite Jute/Epoxy | A. Mir, C. Aribi, B. Bezzazi  
Boumerdes University, Algérie |
| The Influence of Winding Angle on Functional Failure of FRP Pipes | Roham Rafiee, Hadi Hesamsadat  
University of Tehran, Islamic Republic of Iran |
| A Comparative Study on Creep Modeling in Composites | Roham Rafiee, Behzad Mazhari  
University of Tehran, Islamic Republic of Iran |
| Effect of Plasticizer Additives on the Mechanical Properties of Cement Composite - A Molecular Dynamics Analysis | Ram Mohan V. Jadhav A. Ahmed J. Rivas A. Kelkar  
North Carolina A&T State University, United States |
| Natural Durability of Organomodified Layered Silicate Filled Wood Flour Reinforced Polypropylene Nanocomposites | Behzad Kord  
Islamic Azad University, Iran |
| Reinforcement Effect on Dynamic Properties of Saturated Sand | A. Ziaie Moayed, M. Alibolandi  
IKIU, Iran |
| Evaluation of Bearing Capacity of Vertically Loaded Strip Piled-Raft Embedded in Soft Clay | Seyed Abolhasan Naeini, Mohammad Hosseinzade  
IKIU, Iran |
| e-POSTER | Optoelectronic Properties of Ni Doped Cadmium Sulfide | W. Benstaali, S. Bentata, A. Abbad, H. A. Bentoune, B. Bouadjem  
Abdelhamid Ibn Badis University, Algeria |
| e-POSTER | Effect of the Applied Bias on Miniband Structures in Dimer Fibonacci InAs/Ga1-XInXAs Superlattices | Z. Aziz, S. Terkhi, Y. Sefir, R. Djelti, S. Bentata  
Laboratory of Technology and Solid’s Properties, Algeria |
### Application of Digital Image Correlation Technique on Vacuum Assisted Resin Transfer Molding Process and Performance Evaluation of the Produced Materials

Dingding Chen, Kazuo Arakawa, Masakazu Uchino, Changheng Xu
Kyushu University, Japan

### An Experiment of Three-Dimensional Point Clouds Using GoPro

Jong-hwa Kim, Mu-wook Pyeon, Yang-dam Eo, Il-woong Jang
Konkuk University, Republic of Korea

### Chemical Analysis of Available Portland Cement in Libyan Market Using X-Ray Fluorescence

M.A. Elbagermia, A.I Alajtala, M. Alkerzab
Misurata University, Libya

### Prediction of the Solubility of Benzoic Acid in Supercritical CO2 Using the PC-SAFT EoS

Hamidreza Bagheri, Alireza Shariati
Shiraz University, Iran

### Bubble Point Pressures of CO2+Ethyl Palmitate by a Cubic Equation of State and the Wong-Sandler Mixing Rule

M.A. Sedghamiz, S. Raeissi
Shiraz University, Iran

### In vitro and in vivo Anticancer Activity of Nanosize Zinc Oxide Composites of Doxorubicin

State Engineering University of Armenia, Armenia

### Technical Equipment

| 1- Laptop Computer | 5- PowerPoint Presentation Remote with Laser Pointer |
| 2- LCD Data Projector | 6- PowerPoint Presentation/ Acrobat Reader Software |
| 3- USB Flash Drive - Memory | 7- Each Technical Presentation is 20 Minutes including Discussions |
| 4- CD/DVD-ROM Drive | |

### Lunch Break

| 13.00 |

### Key Facts & Figures

- World’s largest dancing fountain
- In sync with classical, Arabic and world music
- 1.5 million lumens of projected light

### 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
6:00pm - 11:00pm every 30 minutes

### Friday

01.30pm and 2.00pm
6:00pm - 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

---

**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
6:00pm - 11:00pm every 30 minutes

**Friday**

01.30pm and 2.00pm
6:00pm - 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

---

*PROGRAM LAST UPDATED: JANUARY 28, 2014*
• 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. The new air-conditioned 820-metre walkway links Burj Khalifa Metro station to Dubai Mall.
  Train operating times can be found at:

- 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.

2- The Walk at Jumariah 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.

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 inside and outside the country. Later on in 1986 it was converted to museum. This imposing building has taken it 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 it 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 in to a museum. In the galleries of this museum you will find Arab houses, souks, date farms, exhibits of dessert 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 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.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.

- **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 Itthihad 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 Khaligi. 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 lighting 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, Thuloth 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 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.