2017 ArabWIC Conference Program

AUB Location
American University of Beirut (AUB’s West Hall near main AUB Main Gate (across from Mcdonalds))
Bliss, Hamra, Beirut, Lebanon  aub.edu.lb
Location on map || Official map (You can download and bring for conference)

** Please note that all conference opening on August 10 will be held at Issam Fares Hall Near Medical Center (MC)

ArabWIC and arabWIC info and Sponsorship:
Email us for anything: ArabWIC conference@gmail.com
2017 ArabWIC Conference Website (Register and Sponsor): http://arabwic.aub.edu.lb/
ArabWIC 2017 conference invite: goo.gl/tlfcyS
ArabWIC 2017 Conference Sponsorship slides information: goo.gl/17Qvb8
ArabWIC Giving loops Crowd Source Funding via Zoomaal (Please donate- if 250 donate $20 per month, then we can continue supporting women in Tech in Arab World and organizing this conference annually - many thanks):https://www.givingloop.org/arabwomenincomputingarabwic
https://www.givingloop.org/arabwomenincomputingarabwic

Diamond Sponsors

Platinum Sponsors

Managed by zaIN

Google
5TH ANNUAL INTERNATIONAL ARAB WOMEN IN COMPUTING AND TECHNOLOGY CONFERENCE

ArabWIC 2017

A celebration of Women in Technology: academics, students, professionals, and entrepreneurs.
The largest conference on Women in Technology in the Arab World.

AUGUST 10TH – 12TH 2017
AMERICAN UNIVERSITY OF BEIRUT (AUB) | BEIRUT, LEBANON
# 2017 ArabWIC Conference Schedule Table of Contents

- AUB MAP Info
- About ArabWIC
- Sponsors and partners
- Conference Leadership Team
- Program Overview
- 8/9 Reception at 7PM
- 8/10 (Thursday) Program
- 8/11 (Friday) Program
- 8/12 (Saturday) Program

<table>
<thead>
<tr>
<th>Session</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Welcome Notes</td>
<td>3</td>
</tr>
<tr>
<td>Keynotes</td>
<td>16</td>
</tr>
<tr>
<td>Plenary Panels</td>
<td>6</td>
</tr>
<tr>
<td>Tech Workshops &amp; Lightning Talks</td>
<td>20</td>
</tr>
<tr>
<td>Career/Coaching Workshops</td>
<td>8</td>
</tr>
<tr>
<td>Research Talks</td>
<td>10</td>
</tr>
<tr>
<td>Posters</td>
<td>17</td>
</tr>
</tbody>
</table>

- Gala Dinner
- Hackathon for Refugees

### Program Color Coding

<table>
<thead>
<tr>
<th>Color</th>
<th>Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blue</td>
<td>Keynotes</td>
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<tr>
<td>Green</td>
<td>Workshops</td>
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<tr>
<td>Gray</td>
<td>Coaching panels</td>
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<tr>
<td>Yellow</td>
<td>Research</td>
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</tbody>
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## 2017 5th International Conference on Arab Women In Computing (ArabWIC 2017)
American University of Beirut (AUB)

### August 9, 2017 (Wednesday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>3 - 6PM</td>
<td>Arrival at AUB Dorms or Hotels</td>
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<tr>
<td>2:00 - 7:00PM</td>
<td>ArabWIC closed meetings at AUB’s West Hall</td>
</tr>
<tr>
<td>7:00-8:00PM</td>
<td>Registration at AUB’s West Hall</td>
</tr>
<tr>
<td>8:00-9:00PM</td>
<td>Reception at AUB’s West Hall (Balcony on 2nd floor)</td>
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<tr>
<td></td>
<td>Walk on Corniche Beirut after Reception near AUB</td>
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Please note that all conference sessions will be held at AUB’s West Hall near AUB Main Gate (across from Mcdonalds)
<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>8:00-9:00 AM</td>
<td>Breakfast and On-Site Registration at AUB</td>
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<td></td>
<td><strong>Room</strong> conference Keynotes, and Panels sessions on August 10 will be held at <em>Issam Fares Hall Near Medical Center</em></td>
</tr>
<tr>
<td>9:00-9:10</td>
<td>Welcome by Conference and ArabWIC Founder &amp; Chair</td>
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<tr>
<td></td>
<td>Professor Sana Odeh</td>
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<tr>
<td></td>
<td>Clinical Professor of Computer Science, Faculty Liaison for Global Programs of Computer Science, Courant Institute of Mathematical Sciences at New York University, and Chair and founder of this conference and Arab Women in Computing</td>
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<tr>
<td>9:10-9:20</td>
<td>Welcome by AUB CS Department</td>
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<tr>
<td></td>
<td>Dr. Wassim El Hajj</td>
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<td></td>
<td>Chair of Computer Science Department at AUB</td>
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<tr>
<td>9:20-9:30</td>
<td>Welcome by AUB President</td>
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<td>Dr. Fadlo R. Khuri</td>
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<td></td>
<td>AUB President</td>
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<tr>
<td></td>
<td>Introduction by Dr Wassim El Hajj</td>
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<tr>
<td>9:30-9:40</td>
<td><strong>Keynote 1: The &quot;Current and Future Technology Plans By Lebanon Government&quot;</strong></td>
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<tr>
<td></td>
<td>Her Excellency Dr. Enaya Ezzeddine</td>
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<td>Lebanese State Minister for Administrative Development Affairs</td>
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<td></td>
<td>PhD recipient from the AUB School of Medicine</td>
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<td></td>
<td>Introduction by Dr Wassim El Hajj</td>
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<tr>
<td>9:40-10:30</td>
<td><strong>Keynote 2 (Research): Preliminary Research findings on Arab Women in Computing:</strong></td>
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<tr>
<td></td>
<td><strong>Representation, Challenges and Opportunities</strong></td>
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<tr>
<td></td>
<td>Professor Sana Odeh</td>
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<tr>
<td></td>
<td>Chair and Founder of this conference and Clinical Professor of Computer Science at New York University (NYU), USA and UAE.</td>
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<tr>
<td></td>
<td>Professor Jennifer Olmsted</td>
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<td>Professor of Economics and Chair of Drew University Economics Department, New Jersey, USA</td>
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<tr>
<td>10:30-11:00</td>
<td><strong>Keynote 3 (Research): IBM Research's Cutting-edge Innovations transforming Industries and Society</strong></td>
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<td>Dr. Kaoutar El Maghraoui</td>
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<td>Research Scientist at Thomas J. Watson Research Center, IBM, USA. Co-Chair of ArabWIC.</td>
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<td>Introduction by Dr. Ghida Ibrahim (Senior Data Scientist, ArabWIC VP, World Economic Forum Global Shaper &amp; Social Entrepreneur)</td>
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| 11:00-11:10  | **Keynote 4:** Touch, Lebanon Rula Abu Daher, Chief Corporate Management Officer (CCMO) at touch, Lebanon
                Introduced by Mona Itani (CEO Riyada, AUB, ArabWIC lead Lebanon) |
| 11:10 AM     | 10 Minutes Break                                                      |
| 11:20-12:10 PM | **Keynote 5 Q&A Panel:** Explore Successful Innovative programs teaching young girls programming/Computational thinking in several countries in the Arab World
                Grace Harb (LLWB, Lebanon)
                Nisreen Deeb (System Analyst, founder of Mini Programmer, and ArabWIC VP, Lebanon)
                Mariam Haidar (CEO of EDUTEK, Lebanon)
                Rana Chmaitelly (little Engineer, Lebanon)
                Ayah Soufan (Palestine Technovation and ArabWIC VP Palestine)
                Moderator, Mona Itani, ArabWIC VP Lebanon, and CEO Riyada |
| 12:10:00 PM  | Lunch at West Hall (first floor)                                      |
| 1:00:00 PM   | **Keynote 6 (Entrepreneur):** A Young Egyptian's Engineer Successful Entrepreneurship story:
                Mai Medhat will share her own inspiring story of creating her own startup, Eventtus
                Mai Medhat
                CEO, Co-Founder at Eventtus
                Featured with President Barack Obama and Mark Zuckerberg at the #GES global entrepreneurship summit in Silicon Valley in 2016
                Introduction by Noha Mahmoud, JuiceLabs, and ArabWIC VP Egypt |
| 1:10:00 PM   | **Keynote 7 Q&A Panel:** Women Entrepreneur Founder and VC Q/A Panel
                Objective: Experience, Challenges, Strategies and Opportunities for Women in leading startups and VC's
                Sara Daniel (Leap Venture Capital fund)
                Mona Itani (Riyada)
                Mai Medhat (Eventtus)
                Noha Mahmoud (JuiceLabs)
                Rana Chmaitelly (Little Engineer)
                Houda Chakiri (CEO and founder of Enhanced Technologies, Morocco)
                Mariam Haidar (CEO of EDUTEK, Lebanon)
                Moderator: Rania Hadi, Google's Regional Lead, Education |
| 2:10:00 PM   | **Keynote 8 (Research):** Language Technologies for Arabic and its Dialects
                Professor Nizar Habash
                Associate Professor of Computer Science and director of the Computational Approaches to Modeling Language (CAMeL) Lab,
                New York University Abu Dhabi (NYUAD), UAE
                Introduction by Dr Nariman Ammar (Assistant Professor at Birzeit university Palestine) |
| 2:40:00 PM   | PM Break (with coffee)                                                |
### Keynote 9 (Research): Anita Borg Institute Goals, program, how the organization is able to organize the largest international conference on Women in Computing (GHC) in the world with 18000 women in attendants, and support women in computing/tech globally

**Rose Robinson**  
Director, Communities and Technical Programs  
Anita Borg Institute for Women and Technology  
Introduction by Dr. Kaoutar El Maghraoui (IBM and ArabWIC Co-Chair)

### Keynote 10 (Q&A Panel): Women in Computing/Tech in Academia and Industry Experience, Challenges, Strategies and Opportunities for Women in Computing/Tech and Industry and academia; Leadership, and Collaboration

**MP Dr. Marianne A. Azer** (Member of the Egyptian Parliament, Associate Professor, Nile University, Associate Professor and Director of Information Center, National Telecommunication Institute, Cairo, ArabWIC Lead, Egypt)  
**Dr. Eman Fituri** (Qatar QCRI & ArabWIC Lead, Qatar)  
**Dr. Nariman Ammar** (Birzeit University, & ArabWIC Lead, Palestine)  
**Nour Elassaad** (Careem, Lebanon)  
**Ayat Amr** (Global leader and Student at Hashemite University, Jordan)  
**Ashwag Alasmari** (PhD in US & ArabWIC Lead, Saudi)  
**Alaa El Hariri** (AUB student & ArabWIC Lead, Lebanon)  
**Nour Al Khalil** (Bayt.com, & ArabWIC Lead, Saudi Arabia and Jordan)  
**Joud Odeh** (Business Transformation Consultant from IBM)  
**Manar Abu Talib** (Google Women Techmaker and ArabWIC Lead)  
**Racha Ghamlouch** (Arabnet)  
**Dr. Ghida Ibrahim** (Senior Data Scientist, ArabWIC VP, World Economic Forum Global Shaper & Social Entrepreneur)  
**Moderator:** Susan Malaika, IBM

### Keynote 11: The future of Technology, and How Technological Changes will Impact Individuals, Businesses and Society

**Acile Sleiman**  
Head of Retail, eCommerce & Online Services at Google  
Introduction by Alaa El Hariri (AUB Student)

### Keynote 12 (Q&A Panel): International and Regional Ecosystem Panel: Future of Technology and how can Ecosystem collaborate to Support Women in Computing/Tech and

**Abnata Borg (Omar Christidis)**  
**Zoomaal (Abdallah Absi)**  
**LLWB and Microsoft (Hoda Yonan)**  
**Anita Borg (Rose Robinson)**  
**Google Women Techmaker Lead (Rayan Al Zahab)**  
**IBM (Abeer Al-Raee)**  
**Wamda (Stéphanie Nour Prince)**  

**Moderator:** Professor Sana Odeh
<table>
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<tr>
<th>Time</th>
<th>Event Details</th>
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<tbody>
<tr>
<td>5:20:00 PM</td>
<td>PM Break (with coffee)</td>
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<tr>
<td><strong>Rooms</strong></td>
<td>Common room in West Hall (First fl)</td>
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<tr>
<td>5:30:00 PM</td>
<td>Technology workshop 1: Arabic Natural Language Processing</td>
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<tr>
<td></td>
<td>Professor Nizar Habash (NYUAD)</td>
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<tr>
<td>5:30:00 PM</td>
<td>Technology workshop 2: Machine Learning in the Cloud</td>
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<td>Farid Gharzeddine (Google)</td>
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<td>App Maker in G suite</td>
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<td>Alaa Abdo (Google)</td>
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<td>5:30:00 PM</td>
<td>Technology workshop 3: Blockchain: What's All The Fuss About?</td>
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<td></td>
<td>Dr. Kaoutar El Maghraoui and Susan Malaika (IBM)</td>
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<tr>
<td>6:30:00 PM</td>
<td>PM Break (with coffee)</td>
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<tr>
<td>7:00-8:00 PM</td>
<td>Posters session (in front of West Hall)</td>
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<tr>
<td>7:00-10:30 PM</td>
<td>Career and Technology Fair (in front of West Hall)</td>
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<tr>
<td>8:00-9:00</td>
<td>Breakfast and On-Site Registration (AUB)</td>
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<td>8:00-9:00</td>
<td>Breakfast/Networking (AUB)</td>
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<td>9:00-10:00</td>
<td>Keynote 13: A Professor of Computer Science and a Member of Parliament- A Success story! MP Dr. Marianne Azer, Member of the Egyptian Parliament, Associate Professor, Nile University, Associate Professor and Director of Information Center, National Telecommunication Institute, Egypt. Introduction by Susan Malaika (Senior Technical Staff, IBM and ArabWIC lead, USA)</td>
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<tr>
<td>9:10-10:00</td>
<td>Keynote 14: Rana Chemaitelly &quot;Success Story, leading a business internationally that stimulates and teaches kids science and technology skills&quot; Introduction by Nisreen Deeb (ArabWIC lead, Lebanon)</td>
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<tr>
<td>9:25-10:35</td>
<td>Keynote 15: Highlighting An Inspiring Engineering Student's achievements from Jordan: Becoming a global leader Ayat Amr Computer engineering student from Jordan, the first Arab female student to be selected as judge for the NASA Space App Challenge, Jordan Youth Delegate to the UN’s International Summit in NY, IEEE Congress regional delegate IEEE – Poland, Intel (ISEF) International Science and Engineering Fair – First Place in Environment field and Global Warming, Excellence Award for Scouts Ministry of Education Jordan, and Best student CEO (company program by INJAZ). Introduction by Shatha Jayyousi (ArabWIC lead, Jordan)</td>
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<tr>
<td>9:35-10:00</td>
<td>Technology presentations 1: student research presentations</td>
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<td>9:35-10:00</td>
<td>Technology workshop 4: Introduction to Data Science Ghida Ibrahim (Senior Data Scientist)</td>
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<td>10:35-10:00</td>
<td>Technology workshop 5: Watson Cognitive Services Hans Boef (IBM)</td>
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<td>10:35-10:00</td>
<td>Technology workshop 6: Thinking Above and Beyond with Data Visualization Wafa Waheeda Syed (Qatar University)</td>
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<td>11:00-12:00</td>
<td>Technology Lightning Talks 1 Claudia Matta (Medtronic), Rula Mikkawy, Palestine An-Najah National University, Heba Tannous (Lebanon Lebanese International University), Sereen Iani,(AUB), Dalal Alrayes (Caravan), Roxane Jurkovskaia (thed.io) Chair: Susan Malaika</td>
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<tr>
<td>11:00-12:00</td>
<td>Technology workshop 7.1: Google Play - Android reach, how to start developing an App Mohammad El-Saadi (Google)</td>
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<td>Technology workshop 7.2 : Google Play - Google Assistant Mohammad El-Saadi (Google)</td>
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<td>11:00-12:00</td>
<td>Career/Coaching workshop 1: #IAMRemarkable Anna Klimaszewski, Learning and Development Business Partner, EMEA Emerging Markets (Google)</td>
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<td>12:00-1:00</td>
<td>Lunch (included)</td>
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<td>1:00-2:00</td>
<td>Research presentations 2: faculty research presentations</td>
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<td>2:00-3:00</td>
<td>Career/Coaching Panel 1: Preparing for Your Career Dr Farzaneh Sarafraz (Google), Jihad Mahmoud (Osaka University, Taghreedat), Abeer Al-Raee (IBM), Dr Nariman Ammar (Birzeit University), &amp; Wafa Ayad (Paris Descartes University) Panel Chair: Susan Malaika</td>
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<tr>
<td>3:00-3:15</td>
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<tr>
<td>3:15-4:15</td>
<td>Career/Coaching Panel 2: The Quest for Improving Education and Supporting Refugees Ayah Soufan (ArabWIC), Hanan Alshikhabobakr (Qatar Carnegie Mellon), Nour Elhouda Tabet (Qatar Carnegie Mellon), Samar Baba (TAWASOL Project) Panel Chair: Susan Malaika</td>
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<td>4:15-5:15</td>
<td>Plenary Panel 3: Speed Mentoring (for all sectors: Students (all levels), Professors, industry professionals) by all partners and sponsors</td>
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Plenary: ArabWIC Chapters Showcase
1. Nisreen Deeb, System Analyst MSC
   Founder of The Mini Programmer
   Chair of ArabWIC Lebanon Chapter
   Bathish Auditorium in West Hall

2. Ashwag Alasmari, PhD Student University of Maryland, Baltimore County, ArabWIC Saudi Arabia Chapter
3. Nour Alkhalil, Service Delivery Manager at Bayt.com, VP of Technology at ArabWIC, Saudi Arabia Chapter
4. Ayah Soufan, ArabWIC VP, Technovation RA, Mozillian, Mozilla, ArabWIC Palestine Chapter
5. Shatha Jayyousi, ITN Customer Management Solutions Manager, Orange Jordan, ArabWIC Jordan Chapter Leader
6. Wafa Waheeda Syed, Student at Qatar University, ArabWIC Qatar Chapter
7. Serien Ahmed, Student, University of Khartoum, ArabWIC Sudan Chapter
8. Sarah AlMasoud, Quality Administrator, International Turnkey Systems, ArabWIC Kuwait Chapter
9. Wefa Hakem, Software Engineer, IDACTIV, ArabWIC Tunisia Chapter
10. Boudour Ayachi, Women Techmakers Bizerte/ GDG Bizerte Lead, Sopra HR, IT Consultant, ArabWIC Tunisia Chapter
11. Dalila Chiadmi, Full Professor, Mohammadia School of Engineers, Mohammed V University of Rabat, ArabWIC Moroccan Chapter
12. Noha Mahmoud, Product Manager at Eventtus.com, ArabWIC Egypt Chapter President
13. Dr Manar Abu Talib, Assistant Professor/Google WTM Lead/ VP of ArabWIC Chapters, University of Sharjah, ArabWIC UAE Chapter

Moderators: Kaoutar El Maghraoui, Manar Abu Talib, Mona Itani, Nisreen Deeb, Ayah Soufan, Susan Malaika, and Nour El Khalil

Gala Dinner, Keynotes, Awards and DJ Party
Gathering at Al Hamra street
Commodore Hotel, Hamra, Beirut (With Tickets ($50) or with Conference Registration purchase ticket of $250)

Keynote 16: "Women Disruptors: why women in tech is the key to economic prosperity & how open innovation can help close the gap"
Hala Hanna
Director of SOLVE at Massachusetts Institute of Technology, Massachusetts Institute of Technology (MIT), Harvard University Kennedy School of Government
Introduction by Rana Chmaitelly (Little Engineer)

Awards Ceremony (Best company supporting women in tech in the Arab word, best ArabWIC chapter award, best research poster, best research paper, best program teaching girls computational thinking.)

Dinner, Networking and DJ Party
7:30:00  to 10 PM  Gala: Celebration of Arab Women in Computing

7:30 PM  Welcome Prof Sana Odeh; NYU AND ArabWIC
7:40 PM  Welcome by Dr Wassim El Haj- AUB
7:45 PM  **Keynote:** "Women Disruptors: why women in tech is the key to economic prosperity & how open innovation can help close the gap" Hala Hanna Director, SOLVE at Massachusetts Institute of Technology, Massachusetts Institute of Technology (MIT), Harvard University Kennedy School of Government
Introduction by Rana Chmaidelly (Little Engineer)

8:10 PM  Awards by ArabWIC: Best company supporting women in tech in the Arab word, best ArabWIC chapter award, best research poster, and best program teaching girls engineering and CS; (ArabWIC chairs)
8:20 PM  Dinner/ Networking/ DJ Party/ Dance

10:00 PM  End
### August 12, 2017 (Saturday)

**2017 5th International Conference on Arab Women In Computing (ArabWIC 2017)**
**American University of Beirut (AUB)**

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<tr>
<th>Time</th>
<th>Event</th>
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| 8:00-9:00 | Hackathon Registration                                                                      | Common room in West Hall (First floor)  
          | Room                                                                                         | Auditorium A in West Hall  
          | Room                                                                                         | Auditorium B in West Hall  
          | Room                                                                                         | Career Booth Tent  
| **9:00-10:00** | Hackathon for Refugees:  
                  | 1) 10 teams working with app Inventor's (50 young girls from Refugee camps)                  | Common room in West Hall (First floor)  
          | 2) 10 teams (5 each) University students and professionals creating apps for social good and  
          | mentored by top mentors from Google, IBM, Microsoft, WAMDA, and so on.                       | Auditorium A in West Hall  
          | Ideation from 9 to 10 am                                                                      | Auditorium B in West Hall  
| **10:00-11:00** | Hacking: Teams work on their team leader                                                     | West Hall 808  
          | Technology Workshop 18: Web Payments Information                                              | Technology Workshop (16a)  
          | Amahdy Abdelaziz (Google Developer Expert)                                                     | Robotics (Transporter)  
| **11:00-12:00** | Technology Workshop 18: Web Payments Information                                              | Career and Technology Booths  
          | IBM Design Thinking Workshop: Design Thinking for KSA ArabWIC Chapter                         | Technology Workshop (16b)  
          | Joud Odeh (IBM)                                                                              | IoT  
| **12:00-1:00** | Lunch break (included)                                                                       | Technology Workshop (16b)  
          | Continued                                                                                     | Continued  
| **1:00-2:00** | Career/Coaching Workshop 1 (repeat):                                                          | Technology Workshop (16a)  
          | hashtagRemarkable                                                                             | Robotics (Transporter)  
          | Anna Klimaszewska, Learning and Development Business Partner, EMEA Emerging Markets (Google) | The Little Engineer  
| **2:00-3:00** | Technology Workshop 18: Social and Business Entrepreneurship: Opportunities and Challenges   | Technology Workshop (16b)  
          | Sami Al Mubarak (Taghreedat)                                                                  | Continued  
          | IBM Design Thinking Workshop: Design Thinking for Sudan ArabWIC Chapter                      | IoT  
          | Joud Odeh (IBM)                                                                              | The Little Engineer  
| **3:00-4:00** | Career/Coaching Workshop (repeat):                                                             | Technology Workshop (16a)  
          | Career Development Workshop                                                                  | Robotics (Transporter)  
          | Anna Klimaszewska, Learning and Development Business Partner, EMEA Emerging Markets (Google) | The Little Engineer  
|        | IBM Design Thinking Workshop: Design Thinking for ArabWIC Chapters                           | The Little Engineer  

- **Hackathon Registration**
- **Common room in West Hall (First floor)**  
- **Auditorium A in West Hall**  
- **Auditorium B in West Hall**  
- **Career Booth Tent**  
- **West Hall 808**
- **Technology Workshop (16a)** Robotics (Transporter)  
  Rana El chemaitelly, Tarek Chehade, Farah Ghanem
  (The Little Engineer)
- **Technology Workshop (16b)**  
  IoT
  Rana El chemaitelly, Tarek Chehade, Farah Ghanem
  (The Little Engineer)
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<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>4:00-5:00</td>
<td>Technology Workshop 20: Realtime Cognitive IoT using DL and Online Learning on Apache Spark Streaming and Spark enabled DL Romeo Kienzler (IBM)</td>
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<tr>
<td>5:00</td>
<td>Hackathon Judging</td>
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<tr>
<td>6:30</td>
<td>Hackathon Prizes</td>
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<tr>
<td>19:30</td>
<td>End</td>
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2017 ArabWIC CONFERENCE LEADERSHIP TEAM

Conference Chair and Founder:
Prof. Sana Odeh, Chair and founder of ArabWIC, Clinical Professor Of Computer Science, and Faculty Liaison for Global Programs of Computer Science, Courant Institute of Mathematical Science, New York University, New York.

Research Track Co-Chairs:
- Dr. Kaoutar El Maghraoui, ArabWIC Co-Chair, Research Scientist, T.J. Watson Research Center, IBM, Yorktown Heights, New York
- Dr. Dalila Chiadmi, Full Professor at the Ecole Mohammadia d'Ingénieurs, Med V University Rabat, Morocco

Technology and Applications Track Co-Chair:
- Susan Malaika, Senior Technical Staff Member, IBM, USA

Posters Track Co-Chairs:
- Dr. Kaoutar El Maghraoui, ArabWIC Co-Chair, Research Scientist, T.J. Watson Research Center, IBM, Yorktown Heights, New York
- Dr. Nariman Ammar, Assistant Professor, Birzeit University, Palestine

ArabWIC Conference General Leadership Committee
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Dr. Kaoutar El Maghraoui, ArabWIC Co-Chair, Research Scientist, T.J. Watson Research Center, IBM, Yorktown Heights, New York
Dr. Wassim El Hajj, Associate Professor and Chair of the Computer Science department, AUB, Lebanon
Asmahan Zein, General Manager, InfoFort
Susan Malaika, Senior Technical Staff Member, IBM, USA
Dr. Ghida Ibrahim, Data Scientist, Liberty Global, Netherlands
Racha Ghamlouch, Program Development, Arabnet, Lebanon
Abdallah Absi, CEO at GivingLoop / Zoomaal
Kamel Al-Asmar, Founder of Nakhweh and Head of communications and community engagement at Wamda
Stephanie Nour Prince, Ecosystem Relations Manager at Wamda
Marianne Bitar Karam, MENA Regional Lead & Lebanon Country Director at DOT Lebanon
Nour Alkhalil, Service Deliver Manager at Bayt.com, VP of Technology at ArabWIC
Hanan Mohammed, Research Associate, Carnegie Mellon University in Qatar
Nisreen Deeb, Business Analyst-Senior Software Developer
Soumow Atitallah, Program/Product Manager, Microsoft, USA
Salim Abid, Google Developer Ecosystem Regional Lead: MENA - Middle East and North Africa
Wafa Waheeda, Graduate Student and Research Associate at Qatar University

Research committee

Dr. Kaoutar El Maghraoui, ArabWIC Co-Chair, Research Scientist, T.J. Watson Research Center, IBM, Yorktown Heights, New York.
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Dr Sherin Abdelhamid, Assistant Professor, School of Computing, Queen’s University, Canada
Dr Ebtisam Abdulqader, Lecturer at Information Technology Department, King Saud University, Riyadh, Saudi Arabia
Ashwag Alasmari, University of Maryland Baltimore County
Hanan Alshikhabobakr, Carnegie Mellon University in Qatar
Dr Areej Al-Wabil, Principal Investigator, Center for Complex Engineering Systems (CCES) at KACST and MIT King Abdulaziz City for Science and Technology, Riyadh, Saudi Arabia
Dr. Nariman Ammar, Assistant Professor in the Department Of Computer Science, Birzeit University, Palestine
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Dr Anasse Bari, Full time faculty member of computer science at the Courant Institute of Mathematical Sciences of New York University
Dr. Laila Benhlima, associate professor, Ecole Mohammadia d'Ingénieurs, Mohammed V university of Rabat, Morocco
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Dr Nizar Habash, Associate Professor of Computer Science at New York University Abu Dhabi
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Dr Wassim EL Hajj, Associate Professor and Chair of the Computer Science department, AUB, Lebanon
Dr Lama Moussawi, Associate Professor in Operations Management in the Olayan School of Business at the American University of Beirut
Dr Fatima Abu Salem, Associate Professor, DPhil Oxon Computer Science Department American University of Beirut
Dr Alice Bonhommebiais, Software engineer at Google
Christina Popper, Assistant Professor of Computer Science New York University Abu Dhabi Saadiyat Campus Abu Dhabi, UAE.

Technology and Application Committee

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Maram Abu Damous, Director of Projects Management Office at Jordan Education Initiative
Nour Alkhalil, Service Delivery Manager at Bayt.com, VP of Technology at ArabWIC
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Houda Chakiri, CEO, Enhanced Technologies
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Ayah Soufan, VP Palestine Chapter, Senior Software Quality Assurance Engineer, Techwomen, Technovation Challenge RA
Rosario Robinson, International Community Development through Innovative Technology Solutions
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Asmahan Zein, General Manager, InfoFort
Abdallah Absi, CEO at GivingLoop / Zoomaal
Kamel Al-Asmar, Founder of Nakhweh
Racha Ghamlouch, Program Development, Arabnet, Lebanon
Mariam Haidar, Malala Fund, Lebanon
Nisreen Deeb, Developer, Lebanon
Mona Itani, Founder and CEO of Riyada for Social Innovation and Lecturer at the American University of Beirut
2017 ArabWIC Conference Workshop Sessions

Technology Workshops Track

Technology Workshop 1
Title: Arabic Natural Language Processing
Speakers: Nizar Habash, Associate professor of Computer Science, New York University Abu Dhabi, UAE
Contact: http://www.nizarhabash.com

Abstract:
The Arabic language can be quite challenging for automatic processing. Arabic morphology is rich and complex and its orthography is underspecified causing a high degree of ambiguity. Arabic dialects, the primarily spoken non-standard varieties of Arabic, contribute more challenges. While some aspects of their morphology are simpler than Standard Arabic, other aspects are more complex. In this workshop, we discuss these challenges, with a focus on word disambiguation. We present and demo a state-of-the-art system for Arabic and Arabic dialect morphological analysis and disambiguation. Knowing Arabic is not a requirement to attend this session.

Technology Workshop 2
Title: Google Technology Showcase
Speakers: Farid Gharzeddine and Alaa Abdo, Google

Abstract:
This session will be two parts:
(1) Machine Learning in the Cloud
(2) App Maker in G suite
Technology Workshop 3

**Title:** Blockchain: What's all the fuss about?

**Speakers:** Dr. Kaoutar El Maghraoui, Research Scientist, IBM Research
& Susan Malaika, Senior Technical Staff, Digital Business, IBM

Abstract: This session provides an overview of blockchain hyperledger technology, its architecture and use cases. And what's coming next. It will also outline how you can get started with the technology.

Technology Workshop 4

**Title:** Introduction to Data Science

**Speakers:** Dr. Ghida Ibrahim - Senior Data Scientist | World Economic Forum Global Shaper & Member of Expert Network | Tech Activist & Social Entrepreneur

Abstract: Do you often hear about Data Science and Machine Learning but do not fully understand what these terms mean?
Do you wish to build an expertise in these futuristic and exciting knowledge domains but do not know where/how to start?
Are you wondering how data science and machine learning can help you become an entrepreneur in the 21st century?

Technology Workshop 5

**Title:** Watson Cognitive Services

**Speakers:** Hans Boef, Bluemix, Watson and IoT Specialist, IBM, Amsterdam Holland

Abstract: This workshop provides an overview of Watson Cognitive Services and show how you can get started incorporating chatbots, language translation and more into your web application.
Technology Workshop 6
Title: Thinking Above and Beyond with Data Visualization
Speakers: Wafa Waheeda Syed, Qatar University, Qatar

Abstract:
Data Visualization has been highly researched and practiced effectively over the years. It is vastly used for communicating and analyzing the quantitative data results. Present, Showcase, Explore, Analyze are the main objectives obtained through visualizations. Though visualizations are highly used, common mistakes are made without being aware of the best practices and aesthetics. Through this workshop, we will cover the robust and well-known data visualization library, D3.js to generate data visualizations. We will also cover the best practices and highlight on obtaining the transition from Excel to D3. Moving from Excel to D3, is a journey which we believe will benefit researchers, developers and employees working in businesses to visualize their complex data effectively. This workshop will also emphasize on why and how to look beyond Bar, Line and Scatterplot for Data Visualization.

Technology workshop 7.1:
Title: Google Play - Android reach, how to start developing an App
Speakers: Mohammad El-Saadi (Google)

Technology workshop 7.2:
Title: Google Play - Google Assistant
Speakers: Mohammad El-Saadi (Google)
Technology Workshop 8

**Title:** Machine Learning Introduction  
**Speaker:** Marwa Ayad, Senior Software Engineer, GDG/WTM Cairo, https://www.linkedin.com/in/marwa-ayad-mohamed-0a405215/

**Abstract:**  
Machine learning is a type of artificial intelligence (AI) that provides computers with the ability to learn without being explicitly programmed. Deep Learning is a new area of Machine Learning research, which has been introduced with the objective of moving Machine Learning closer to one of its original goals. TensorFlow™ is an open source software library for numerical computation and machine learning.

Technology Workshop 9

**Title:** Virtual Reality on the Web  
**Speaker:** Yamama Shaka’A, Mozilla employee and TA at An-Najah National University, Palestine  http://yamama87.wordpress.com

**Abstract:**  
Virtual reality is a very important topic nowadays. WebVR provides a virtual reality platform that works on the web, has the advantages of the web and solves most of the frictions that exist in the virtual reality ecosystem. This makes virtual reality open, connected and instant. The virtual reality apps stay available to everyone with no app stores and no corporations that determine whether the app gets allowed in or not. Furthermore, anyone can publish content just as a regular website. During the talk I'll be covering the importance of creating webVR content, the set of tools and polyfills you need to start the WebVR experience, and the kind of knowledge you need to know before starting to create webVR content. After that, I will be covering A-frame, an open-source web framework created by Mozilla for easily building virtual reality experiences, including some pre-built components available for it. After the session the audience will be able to start creating simple webVR content by using A-frame framework and its components.
**Technology workshop 10**

**Title:** Serving the Public Through Technology - the Story of Government in the Digital Age  
**Speaker:** Indiana Abboud, Digital Business Architect, SAP

**Bio:**
Indiana Abboud is a Digital Business Architect for the Public Sector at SAP. Her role is to advise government on designing their digital transformation journey so they can run better and improve people’s lives. Indiana has over 11 years of experience with the Government of Canada, where she participated in various SAP implementations. Most recently, with the Treasury Board of Canada Secretariat, she led several initiatives with government departments around Business Intelligence and Financial Management Transformation. She holds a with a Bachelor of Commerce, specialization in Management Information Systems from the University of Ottawa and an MBA from Queen’s University.

**Abstract:**
Digital transformation is changing the way our world operates and government entities across the globe are embracing it. This session will provide real-world examples of ways in which governments have used technologies like IoT (Internet of Things) and Predictive Analytics to better manage their operations, engage their citizens and deliver services to the public like never before. The audience will learn about the innovative ways in which governments are engaging and delivering services to the public using various technologies, and more importantly, the business value achieved for all stakeholders of these government entities.
Abstract:
The discussion about centric is almost always centered around software. We have traditionally assumed the underlying hardware to be trustworthy. However, due to significant changes in the integrated circuit (IC) supply chain, hardware no longer remain trustworthy. Today, the semiconductor industry faces multiple hardware security threats in the form of IC counterfeiting, reverse engineering, overbuilding, IP piracy and hardware Trojans. To counteract these attacks, multiple countermeasures such as watermarking, IC metering, logic locking and IC camouflaging have been developed. This presentation introduces the hardware security threats and presents the state-of-the-art countermeasures.

Session goal:
The audience will gain understanding about the fundamentals of hardware design and the changes in the IC supply chain that had led to the creation of security vulnerabilities. The audience will also learn basic concepts about various security vulnerabilities and how they can be mitigated.
**Title:** Offline-first Apps with Web Components  
**Speaker:** Amahdy Abdelaziz, Vaadin, Finland for Google, http://www.amahdy.net/  

**Abstract:**  
We will explore how to boost the usability of web and mobile-web apps by implementing offline-first functionalities, it's the only way to guarantee 100% always on user experience. Low signal or no connectivity should no longer be a blocker for the user, we will discuss the available solutions for caching, in-browser database, and data replication. We will also take a look at how WC help solving those issues out of the box.  
There will be a live coding demo to see how it's simple to manipulate a large data, completely offline.  
During this session I will cover:  
- Quick Introduction to Web Components  
- Polymer elements  
- Mobile-first concepts  
- Offline-first concept  
- Caching solution  
- Offline storage solution  
- In-browser database solution and showcase of current implementations  
- PouchDB + CouchDB demo
Technology Workshop 13.1
**Speaker:** Roxane Jurkovskaja, theo.io
**Title:** Leadership, courage, entrepreneurship & impact: How to lead like a woman, in a man's world?
**Duration:** 30 min.

**Abstract:**
By sharing my own experiences and my journey within the United Nations, MNCs and the tech startup industry and why I believe that trying to ‘lead like a man’ is a mistake. Working in the area that I am in means that I find myself constantly, if not always, surrounded by men both senior and junior. There are many situations that I have found very challenging, and even though I studied leadership in Business school, I found little help in the theories that we went through, and I had to adapt, through trial and error, my own leadership style in order to successfully navigate in this environment. I would like to share some of these trials and errors and how we can become more conscious regarding this and develop ourselves further as female leaders.

Technology Workshop 13.2
**Speaker:** Vaas Krishnamurthy, Embedded Low Power Wireless Specialist, Nest Labs, Google
**Title: Duration:** 30 min.
**Technology workshop 14**

**Title:** Mobile Cloud Computing and CPU/GPU Integration with Google App Engine

**Speaker:** Marwa Ayad, Senior Software Engineer, GDG/WTM Cairo, https://www.linkedin.com/in/marwa-ayad-mohamed-0a405215/

**Abstract:**
Explosive growth of mobile devices usage and the quick increase of the mobile applications are facing many challenges in their resources as low computing power, battery life, limited bandwidth, and storage. Mobile Cloud Computing (MCC) has been introduced to be a potential technology for mobile services and to solve the mobile resources problem by moving the processing and the storage of data out from mobile devices to the cloud.

The cloud enables the integration with additional development tool as graphical processing power (GPU) to increase the computational power. This paper presents a novel approach for real time face detection using GPU acceleration.

Using google cloud app engine provide very high performance. Google App Engine is a fully managed platform that completely abstracts away infrastructure so you focus only on code. Google Cloud now offers virtual machines with GPUs capable of tens of teraflops of performance.

The results of developed Applications demonstrate that the proposed Mobile GPU cloud computing increase both speed and accuracy of facial detection systems.
Technology Workshop 15
Title: Hands on workshop on IoT, focusing on Thread and Works With Nest
Speaker: Vaas Krishnamurthy, Nest, Google, USA https://www.linkedin.com/in/vaasanthy/

Abstract:
Thread workshop: Attendees will create a Thread network in simulation (form, scan, join two Thread devices and ping each other)
Works with Nest workshop: Attendees will create an IoT product and interact with a simulated Nest Thermostat to set/get temperature, etc, using POST/GET commands.
Additional interactive demos: 1) Camera capturing images fed to Tensorflow library for identification.
2) Remove wakeup of one smoke detector from another.
3) Development boards running OpenThread (same version/commands used in simulation above)
4) Works With Nest demo showing interaction of Thermostat with Third party light bulb and plug.

Technology Workshop 16a - 2 hours
Title: Robotics (Transporter), The Little Engineer
Speaker: Rana Chemaitelly

Abstract:
The aim of the Little Engineer is to expose the largest number of kids and teens to the world of Robotics and renewable energy, introducing them to the how and wow of science, technology, engineering and mathematics in a friendly atmosphere, preparing them for the challenging future. For more details see https://developer.ibm.com/opentech/wp-content/uploads/sites/43/2017/08/concept-note-Transporter-ArabWIC-1.pdf
Technology Workshop 16b - 2 hours
Title: IoT, The Little Engineer
Speaker: Rana Chemaitelly

Abstract:
The aim of the Little Engineer is to expose the largest number of kids and teens to the world of Robotics and renewable energy, introducing them to the how and wow of science, technology, engineering and mathematics in a friendly atmosphere, preparing them for the challenging future. See for more details: https://developer.ibm.com/opentech/wp-content/uploads/sites/43/2017/08/concept-note-IoT-ArabWIC-1.pdf

Technology Workshop 17
Title: Building RESTful service APIs - Development aspects
Speaker: Nariman Ammar, Assistant Professor, BirZeit University - Palestine

Abstract:
The tutorial will go over the design, implementation, deployment, and documentation of a RESTful service API. The session will go over development aspects of service-oriented computing as a distributed object-oriented computing paradigm. The session will also cover OpenAPI documentation framework. The audience may download the Eclipse plugin of Spring boot framework or Spring boot IDE, Android studio instrumented with Google cloud endpoints, and the swagger UI or editor.

Technology Workshop 18
Title: Web Payments Information
Speaker: Amahdy Abdelaziz, Google Developer Expert

Abstract:
Implementing Mobile Payment APIs will not just improve the user experience, but increase the chance of maintaining your users. Thanks to the safety nature of the process of payment, the APIs will make the decision of clicking "pay" easier like never before. In this presentation we will discuss the basics of implementing the APIs, the available gateways, and show some demos and how they resonate in the era of PWA. We will also discuss the current limitations, and how the future will look like towards standardizing those APIs.
Design Thinking Workshops Track

Design Thinking Workshop
Title: Design Thinking for Arabic Chapters (maximum 5 attendees from a single chapter)
Speaker: Joud Odeh, Managing Consultant, IBM,

Abstract:
Design Thinking for ArabWIC Chapters - Maximum 5 people from an ArabWIC chapter attend each workshop -
The workshop is repeated to offer the opportunity to maximum number of chapters to benefit from the
methodology. A chapter best practices blog will be created as a result of the workshops.

Joud Odeh is a design thinking leader. She works with clients (that is large or small companies, universities,
consortia, startups etc) as a consultant to help them reach resolution on any problem in 2 hours. Example of
problems include:
- what are the side effects of raising the price of product X by 20%?
- should we adopt machine learning technologies in our upcoming offerings?
- how can we engage our students in data science background when they have no math background?
- what's the best way to raise funds for our upcoming hackathon?
If your chapter would like to have a design thinking session at the conference to work on a problem, please send
Manar Abu Talib the name of your chapter, your problem statement, and the members of your chapter who will
participate in the design thinking session (5 people max). It may be possible for a couple of chapters to be in the
same design thinking session if they have a similar problem statement.
Technology Lightning Talks Track

Technology Lightning Talks 1
Session Chair: Susan Malaika

Sessions & Speakers:
- Diabetes Technologies: Sensor Augmented Insulin Pump with Advanced Smart Guard, Claudia Matta, Diabetes Senior Training and Education Specialist in Medtronic, Lebanon, https://www.linkedin.com/in/claudia-matta-7187b516/

- TensorFlow - Lightning Talk, Rula Mikkawy, Palestine An-Najah National University

- Skype Bot, Christian Roustem, Diaa Zaiter; Moustafa Wehbe; Dania Othman, Lebanon AUB

- Transfer Learning for Medical Image Analysis, Samr Ali, United Arab Emirates Abu Dhabi University

- Transformation of sifr (صفر) to cipher within the human life cycle to be reflected within the system development life cycle, Heba Tannous, Lebanon Lebanese International University http://www.liu.edu.lb

- Innovative Technology-Supported Pedagogic Models in STEAM Education, Sereen Itani, AUB, Lebanon

- 6 things every web developer should know about accessibility, Dalal Alrayes CEO Caravan, Kuwait http://www.dalrayes.com

- Ethics in Bots: Lessons learned when creating a coach bot., Roxane Jurkovskaja, Thed.io
Career/Coaching Workshops Track

Career/Coaching Workshop 1
Title: #IamRemarkable
Speakers: Anna Klimaszewska, Learning and Development Business Partner, EMEA Emerging Markets, Google

Abstract:
(15 attendees max - This session is repeated - Runs on Day 1 & Day 2)

Career/Coaching Workshop 2
Title: Think Business, Sketch like a designer, Code like a Geek,
Speakers: Rayan Al Zahab http://www.rayanzahab.com ; Ahmad Zein ; Lebanon GDG Coast Lebanon

Abstract:
Section 1: Business
Presenting Challenges of Technical Projects for all parties: Programmers, Designers, PM and Clients
Presenting a solution:
1) Best practices to start any new project
2) Demonstrate the responsibilities of each: Dev/ Designer/ Product Owner into extracting needed information from clients
3) How to stay aligned with the clients' specifications
Section 2: Designing
1) Sketching and Prototyping between designers and Devs
2) Validation and moving to Development
Section 3: Technical Section
1) Introduction to Android Studio
2) Introduction to development using Google Firebase
Careers & Coaching Workshop 3

**Title:** Career Development Workshop

**Speaker:** Anna Klimaszewska, Learning and Development Business Partner, EMEA Emerging Markets, Google

**Abstract:**

This session will be two parts: The first part will discuss career development (30-40 attendees).
The second part will be a workshop for women empowerment
Career & Coaching Workshop 4

Title: Gamification of Learning

Speaker: Dr. Mamoun Nawahdah, Assistant Professor and Chair, BirZeit University, Palestine

Bio:
Mamoun Nawahdah has a B.Eng. degree in Computer System Engineering from PPU, Palestine, in 1997, a M.S. degree in Scientific Computing from Birzeit University, Palestine, in 2005, and a Ph.D. degree in Information Science from the University of Tsukuba, Japan, in 2013.
In 2006, he joined the Faculty of Engineering and Technology, Birzeit University, as a Lecturer, and in 2013 became an Assistant Professor. In 2016 he became the chair of computer science department. His current research interests include Gamification, Pair-programming, Human computer interaction (HCI), and Mixed Reality.

Abstract:
These days, the conventional ways of teaching programming are not attractive to students. For instance, classical lecture and tutorial classes are not sufficient and provides only one-way learning environment. Most of the students nowadays prefer to have more engaging, fun, competitive, collaborative, and instant feedback learning environment. These elements can be achieved using gamification to increase students’ interest in computer programming courses.
We believe that gamifying teaching and learning process has great potential to assist teachers and engage students in a new and challenging way.
In this workshop we will present gamification techniques can be applied to learning and instruction.
Expected Outcomes:
- At the end of the workshop participants will be able to:
- Understand game elements.
- Apply gamification in real life activities.
- Identify the theories behind gamifying the learning and instruction.
- Using ClassDojo application to gamify university classes.
2017 ArabWIC Conference
Research Track

Research Presentation 1
Session Chair: Dr. Dalila Chiadmi
Title: Research Presentations (15 min each)

Speakers:

- Layali Zidan, BirZeit University, Palestine, Gamifying the Teaching and Learning Process in an Advanced Computer Programming Course. An empirical study that was carried out in an advanced computer programming course in which several gamification techniques were applied. LinkedIn: https://www.linkedin.com/in/layalizidan/

- Wafaa Ihmoudah, BirZeit University, Palestine, Implementing a Serious Game for Children with Autism in Palestine. A serious game design that empowers communication and social skills of autistic children in by taking benefits from special needs augmentative and assistive communication (AAC) systems and social cooperative games. LinkedIn: https://www.linkedin.com/in/wafaa-ihmouda-97b252107/

- Wafaa Radwan, BirZeit University, Palestine, A GA-based Optimization Tool for Assisting Software Engineers in Service Composition Tasks. A tool that extends the Jmetal framework and utilizes a search based software engineering technique to assists software Engineers to map the optimized service composition to a desired business process model based on security and cost. LinkedIn: https://www.linkedin.com/in/wafaa-radwan-94231796/

- Hajar El Maghraoui, EMI, Morocco, Dynamic web service composition using directed graph.
Research Presentations 2
Session Chair: Dr. Kaoutar El Maghraoui
Title: Research Presentations (20 min each)

Speakers:

- Nariman Ammar, BirZeit University, Palestine. Decision-Support System Based on K-Anonymous API invocation Graphs

- Salam Khalifa, New York University Abu Dhabi, UAE, A Large Scale Corpus of Gulf Arabic

- Shady Elbassuoni, American University of Beirut, Lebanon, Fact Detector: Predicting the Validity of Facts in Wikipedia-based Knowledge Graphs
2017 ArabWIC Conference
Research and Technology Poster Session

Session Chairs: Dr. Nariman Ammar & Dr. Kaoutar El Maghraoui

- Taj Alwaqar for Memorizing Quran; Ala’A Zuhour, Amany Sadaqa, Duha Shehadeh; Palestine, BirZeit University
- Detecting Brain Tumors in Magnetic Resonance Imaging (MRI); Latifa Aldhafeeri, Kuwait, Kuwait University
- CodeVentures Serious Game; Suzan Yeaqba, Mohammad Nairat, Ibraheem Sami, Yousef Hassouneh, Birzeit University, Palestine
- A Real Time Recommender System for IBM Watson Summit European Events; Wafa Ayad, IBM, France
- Video Summarization Using High-Level Visual Concepts; Tala Tarazi, Yaman Qendah, Saja Hazem, Radi Jarrar, BirZeit University, Palestine
- ASL Translator: A Mobile App for American Sign Language; Tala Moin, Sleman Shaloudi, Mohamad Rateb, Iyad Jaber, Palestine Birzeit University
- RF Energy Harvesting In Wireless Sensor Networks, Imene Henni Mansour and Roufaida Laidi, CERIST, University of Blida, Cerist and ESI
- Universal Dependencies for Arabic; Dima Taji, New York University Abu Dhabi
- Speech/Non-Speech Classification in Hearing Aids Driven by Tailored Neural Networks, Either Elbasheer, Olla Eltiraifi, Mustafa Nawari, Sudan University of Khartoum
- Trust- and Risk-Based Privacy Preserving Access Control, Nadia Metoui, Italy University of Trento (https://nadia-metoui.github.io)
- Botta: an Arabic Dialect Chatbot, Dana Abu Ali, Nizar Habash, United Arab Emirates, New York University Abu Dhabi (NYUAD)
- Software Energy Consumption, Hawraa Sweidan, Lebanon Lebanese American University
- Enhancing Zoom and Pan in Ultrasound Machines with a Multimodal Gaze-based Interface, Yasmin Halwani, Victoria A. LessowayCanada, Septimiu E. Salcudean, Sidney S. Fels, University of British Columbia, Canada