Keynote Speaker, Romelia Flores is one of IBM’s top 500 technical executives, earning the titles of IBM Distinguished Engineer and IBM Master Inventor. She has collaborated with some of IBM’s largest clients around technology innovation, and holds 25 patents with an additional 25 patents pending. Romelia is an alumnus of the University of Texas, Austin and a Baylor Honorary alumnus. In 2015, Romelia was named Dallas Metroplex’s Inventor Tech Titan Finalist. Recently she was honored with a HENAAC Great Minds in STEM 2016 Lifetime Achievement Award and named as one of Dallas Business Journal’s Women in Technology. In her presentation, Romelia will discuss the history of IBM’s Watson Cognitive technology along with today’s IBM Quantum Experience, both of which are driving discovery-based innovation.

Plenary Speaker, Ali Abedi is Professor of Electrical and Computer Engineering and Director of the Center for Undergraduate Research (CUGR) at the University of Maine, Orono. Ali served as Principal Investigator on several NASA, Army, and NSF funded projects including Wireless Sensing of Lunar Habitat and Leak Detection for the International Space Station. His presentation discusses hardware, software, and algorithmic challenges for localizing leaks on the ISS using an array of ultrasonic sensors. Three devices were built, flight certified, and scheduled to deploy to the ISS for data collection in the Fall of 2016.

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<th>Emerging Technologies</th>
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<td><strong>7:30</strong></td>
<td>Welcome Address: Diane Bowen Collier, IEEE MetroCon 2016 General Chair</td>
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| **7:45 - 8:25** | **Plenary Address : Wireless Ultrasonic Leak Detection for International Space Station**  
Ali Abedi, Professor & Director, Center for Undergraduate Research, University of Maine, Orono |
| **8:30 - 9:25** | **A Mobile Application Design That Eliminates Government Data At Rest**  
Paul Nelson, Thursby Software  
Mutuation Testing: Biggest Benefit to Software Testing in 40 Years  
John H. Robb, UT Arlington  
Structure Assurance Modeling  
Ben Calloni, Lockheed Martin  
Power System Physical & Cyber Security  
Colin Gordon, SEL  
Panel: What is Computational Intelligence Compared to AI  
Unlocking Your Professional Network:  
The Secrets to a Successful Career  
Tim Worboys, LinkedIn |
| **9:25 - 9:55** | **Low Power Wide Area Network (LPWAN) Technologies**  
Ed Hightower, Ingenu, Inc.  
Aero/Vs Flight Visualization: Enabling the Engineer  
Kyle Ringenberg, Lockheed Martin  
Current Cyber Threats and Trends  
Dallas FBI Office  
Integrating Big Data and Deep Renewables in Power Systems  
Le Xin, TANU  
Intelligent Autonomy in Long-Duration Persistent Activities  
Michael T. Cox, Wright State University  
Biodegradable Elastomers for Tissue Repair and Replacement  
Yi Hong, UT Arlington  
ETF Education  
Matt Diggles, Pacer Financial |
| **10:00 - 10:55** | **Vehicle-to-Vehicle Secure Communications and Infotainment Platforms**  
Clayton Weimer, ACAS Runtime  
Reference Security Architecture for Private and Public Cloud  
Micki Boland, Check Point  
Considerations for a Multi-Disciplinary Approach to the Engineering of Secure Systems  
Dawn Beyer, Lockheed Martin  
Cloud Computing for Power System Applications  
Xiaochuan Luo, ISO New England  
Perceptive Emotive  
Spoken Dialogue Companion Robots  
Rodney Nielsen, UNT  
Study of Age-Related Macular Degeneration – Development of a Novel Mouse Model  
HONGLI “Catherine” Wu, UNTHSC  
Maximizing Retirement Planning through Life Insurance Retirement Plans  
Kevin Cox, Lincoln Financial |
| **11:00 - 11:55** | **Break**  
- **Student Poster Presentations**  
The Poster Session is open to IEEE Student Members who are either undergraduate or graduate students at the time of the competition |
| **12:00 - 1:15** | **Luncheon - Keynote Address: Engineering Through Discovery**  
Romelia H. Flores, IBM Global Solution Center  
**Exhibits and Networking** |
| **2:00 - 2:30** | **Directional Vehicle-to-Vehicle Signaling with Intervening Vehicle Relay**  
John Lindsay, Lindsay Patent Law  
Data Analytics: A 10-Step Recipe for Quantitative Decision Support  
Walter Storm, Lockheed Martin  
Tool Output Integration Framework (TOIF)  
Trey Jones, Lockheed Martin  
Data Analytics and Machine Learning Approaches for Utility Companies  
Yannan Sun, PNNL  
Evolution of Neural Networks  
Risto Mikkelainen, UT Austin  
The Lazy Man’s Exercise: Intermittent Hypoxia and Its Health Benefits  
Robert Mallet, UNTHSC  
The Secret to Proper Estate Planning  
Gary Haynes, The Wynne Law Firm |
| **2:30 - 3:10** | **Break in Exhibits Area** |
| **3:10 - 3:40** | **Spiral Modulation**  
David Shaw, Astrapi Corporation  
Structured Data Archiving and Retirement  
All El Kortobi, Hewlett-Packard  
Leveraging Splunk for Cyber Security  
Rich Voninski, Splunk, Inc.  
Energy Storage as a Smart Grid Strategy  
William Muxton, ONCOR  
Re-Inventing Unstructured Data Analysis by Using Machine Learning  
Dave Copps, Brainspace  
Application of Scaffolds for Tissue Regeneration  
Ashwar M Nair, UT Arlington  
I Need to Get a Job Now  
Debbie Mrazek, The Sales Company |
| **3:45 - 4:40** | **Structured Data Archiving and Retirement**  
All El Kortobi, Hewlett-Packard  
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Rich Voninski, Splunk, Inc.  
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I Need to Get a Job Now  
Debbie Mrazek, The Sales Company |
| **5:00 - 7:00** | **Reception** |
MetroCon 2016 features seven tracks on the latest technology developments in the Dallas/Fort Worth Metroplex. This year’s event features an industry exhibits program and a poster competition for area college students.

MetroCon takes place at the Arlington Convention Center located mid-way between Dallas and Fort Worth, immediately off of I-30 in front of Globe Life Park in Arlington. From both Dallas and Fort Worth, take the Ballpark Way exit. See map for further directions.