

Doors Open at 7:00 AM	Internet of Things <i>Room 1</i>	Software and Systems Engineering <i>Room 3</i>	Developing and Deploying Secure Systems <i>Room G/H</i>	Power and Energy <i>Room E/F</i>	Computational Intelligence <i>Room 4</i>	Biotechnologies <i>Room F</i>	Autonomous and Vehicle Systems <i>Room 2</i>	Photonics <i>Room 5</i>	Engineering & Financial Planning <i>Room 6</i>
7:30	Welcome Address: Mike Bishop, IEEE MetroCon 2024 General Chair								
7:45	Plenary Address - SALON A: Julian Beecker, Design Fiction								
8:30 - 9:25	Soft Actuation Technologies for Physical Human-Robot Interactions Amir Jafari UNT	An MBSE Test-Integrated Descriptive Modeling Framework to Support Early Phase T&E Decision Making Awele Anyanahun Georgia Tech Research Institute	Developing and Secure Systems Sharon Reynolds Kudelski Security	Complementary Role of Partial Discharge Monitoring in Transformer Health Assessment Emilio Morales Qualitrol Company LLC	Dreams, Dilemmas, and Data: Envisioning AI's Future Trajectory Lorenzo Jaques Lockheed Martin	Advances in Nano-Therapeutics and Diagnostics with Graphene Quantum Dots Anton V. Naumov TCU	Cockpits In The Next Decade Mike Skaff Lockheed Martin	High power high speed semiconductor photonic crystal lasers and spatial light modulators for space and defense applications Weidong Zhou UTA	Taxes In Retirement David Sandu
9:25	Break - Student Poster Presentations								
10:00-10:55	Facilitating AI/ML Translation in Healthcare Sagnik Dakshit University of Texas at Tyler	Jumpstarting Automation on a Challenged Program Jim Meby and Sandra Dawson Lockheed Martin	Network Intrusion Forensics Analysts US Secret Service	The Silicon Standoff: Exploring VLSI's Billion-Dollar Verdict Against Intel Lyell Anderson Eastern District of Texas	Introduction to Design of Datapaths for Quantum Computation Edgard Munoz-Coreas UNT	Intraocular lens surgery and development Liping Tang UTA	An e-Pilot: Using a Virtual Co-Pilot to Prevent Mishaps Keith Higginbotham	Concatenation of Kerr solitary waves in Ceramic YAG: application to coherent Raman imaging Alejandro Aceves SMU	Retirement Planning Bill Swoboda Edward Jones
11:00 - 11:55	Safety and Security for IoT with Autonomy, Artificial Intelligence, and Distributed Applications Stephen Olsen BlackBerry QNX	Strategies for Integrating Complex Aircraft Software Systems Jennifer Klenka and Stephanie Figueroa Lockheed Martin	Cryptographic modules: hardware, software, and firmware requiring certification... explained Chris Wood Lockheed Martin	Two-Ended Fault Location in Transmission Lines with a Fault Current Limiting Reactor at One End Frankin Quilumba Gudino Oncor	Bringing High Temperature Computing to the Edge in Aerospace Defense and Energy Applications Matt Francis Ozark IC	Potential Roles of Artificial Intelligence in Molecular Imaging Probe Design and Development Xiankai Sun UT Southwestern Medical Center	Autonomy + AI to Support the Military Pilot Kasey Dixon Lockheed Martin	Beating Moore's Law with two unconventional lithography tools John Randall Zyvxex Labs	College Planning Melissa Cox
12:00 - 1:15	Keynote Address– Salon A: Swaroop Darbha, Routing a Collection of UAVs Platinum Sponsor Recognition Student Poster Competition Awards								
1:15	Exhibits and Networking								
2:00 - 3:10	When Generative AI Meets IoT: A Match Made in Data Heaven! Yeshwant Muthusamy Yeshvik Solutions, LLC	INCOSE Certification and SE Vision 2035 Dawn Handley INCOSE Managing Complex System Architectures Sean Densford and Javier Villafane	Systems and Software Engineering Techniques to Develop and Deploy Secure Systems Jeff Daniels Lockheed Martin Dan Wittliff GDS Associates	Impacts of EV Charging on Commercial Fleets and Utilities John Nemec Burns & McDonnell	How AI Transforms the IP Landscape Raphael Chabaneix King & Spalding	Unlocking the Secrets of Aging: Insights from Glutaredoxin Double Knockout (DKO) Mice and Their Implications for Cellular Senescence Qin Ying UNTHSC	Replacing Pilots with AI: Evaluating Single Pilot Operations Jason Taylor Lockheed Martin	High Energy Laser Weapon Systems and Controls Liam Skoyles Raytheon Technologies	Navigating AI & Personal Finances Arash Shariatzadeh
3:10	Break in Exhibits Area								
3:45-4:40	Navigating the Quantum Landscape in Real-life applications: Trends, Challenges, and Future Directions Bhaskar Gaur UT Tyler	Women in Engineering Panel Morgan Kiani TCU	Digitalization of working/ everyday environments Thomas Taylor Nozoomi Networks	Data Center Generator Design Considerations Patrick McBrayer Rehlko	Optimizing Data Efficiency and Visual Quality through Color Reduction Encoding Art Depoian UNT	Hyperspectral imaging for cancer detection and image-guided surgery Baowei Fei UTD	Solving Autonomous Challenges in Defense Vehicles and Robotics by Leveraging Commercial Technologies Rich DesMarais Blackberry	Optical emission and absorption properties in 2D layered selenides of tungsten and niobium for sensor devices Anupama Kaul UNT	Understanding Money, Blockchain & Bitcoin Sam Konigsberg
5:00	Reception								