



TEXPO 2024 Participants

	Authors/Presenters	Faculty	University	Title	Excellence in Microsystems Fabrication	Gayathri Singh Award for Microsystems Innovation by Women	Award for Excellence in Microsystems CAD Tools and Design Methodology
1	Shiva Akhtarian	Pouya Rezai, Satinder Kaur	York University	Cell Imprinted Polymers Integrated with Microfluidic Biosensors for Electrochemical Detection of Bacteria in Water		X	
2	Milad Seifnejad Haghghi	Behraad Bahreyni	Simon Fraser University	A New Anti-Spring Mechanism Used in MEMS Inertial Sensor for Improving Sensitivity			X
3	Hanieh Ashrafi	Virgilio Valente	Toronto Metropolitan University	Design of a CMOS Wireless Potentiostat ASIC for mm-Scale Injectible ISF Biosensors			X
4	Mohammad Abdolrazzaghi	Roman Genov	University of Toronto	Focused Wireless Powering for Deep Brain Stimulation: Leveraging Low-GHz RF Systems to Enhance Neural Implant Efficiency			X
5	Pouya Taghipour	Yves Blaqui�re	�cole de Technologie Sup�rieure	A Multi-GNN Multi-Fidelity Framework for Agile Hardware Acceleration in High-Level Synthesis			X
6	Aya Abu-Libdeh	Arezoo Emadi	University of Windsor	State-of-the-art Transistor Design Approach for Enhanced Sensing Performance		X	
7	Peyman Firoozy	Behraad Bahreyni	Simon Fraser University	A highly sensitive fiber-optic MEMS gravimeter with large dynamic range using buckling-beam nonlinear springs	X		
8	Fatemeh Niknahad	Mohammad Zarifi	University of British Columbia	Smart Ice Detection: Wireless Microwave Sensor Networks		X	
9	Xinyue Hu	Sebastian Wachsmann Hogiu	McGill University	Point-of-Care Microfluidic Colorimetric Test on a CMOS Image Sensor for Monitoring Kidney Health Biomarkers		X	
10	Hassan Rekabi Bana	Mitra Mirhassani	University of Windsor	The Benefit of Sparsity for Fully Homomorphic Encryption			X
11	Shiva Nejati	Mitra Mirhassani	University of Windsor	Hardware Implementation of Post-Quantum Cryptography Algorithms: A Focus on CRYSTALS-KYBER			X
12	Sima Darbasi	Virgilio Valente	Toronto Metropolitan University	Design and Fabrication of a Force-Balanced Pressure Sensor			X
13	Jonas Welsch	Edmond Cretu	University of British Columbia	SenCMUTs, Polymer-based Micromachined Ultrasound Sensors for Acoustic Emission Detection	X		
14	Zahra Sarpanah Sourkouhi	Mohammad Zarifi	University of British Columbia	A 20 Gram- 3D Printed MXene Horn Antenna For Space Communication Applications			X
15	Tadeas Hanus	Abderraouf Boucherif	Universit� de Sherbrooke	Fabrication Process for Germanium Based Flexible Electronic and Optoelectronic	X		
16	Batoul Hashemi	Jonathan Bradley	McMaster University	Amplification in a hybrid rare-earth Silicon waveguide		X	