

TEXPO 2023 Participants

	Authors/Presenters	Faculty	University	Title	E i M F x n i a c b e r r l o i l s c e y a n s t c t i e e o m n s	M l b i n y c n r o w o v o s a m y t e s i n t o e n m s	A E i M C a M w x n i A n e a c c D d t r e r h d l o T D o l s o e d f e y o s o o n s l i l r c t s g o e e n g m y s	B B M I R A I N I R C T A G R E N E O G S R L Y A S T T I E O M N S
3	Andrew Gunter	Steven Wilton	University of British Columbia	Using Machine Learning to Reduce Wasted Time in FPGA CAD Routing			1	
4	Farshideh Kordi	Amine Miled	Université Laval	FPGA-Based Hardware-in-the-Loop Real-Time Implementation		1		
5	Zahra Sarpanah Sourkhouhi	Dima Kilani	University of British Columbia	A 700-nA Tunneling Current-Based Amplifier in 22-nm FDSOI		1		
6	Tyler Hornsby	Jahan Tavakkoli	Toronto Metropolitan University	Multiphysics Modeling of Low-Intensity Pulsed Ultrasound Induced Chemotherapeutic Drug Release from the Surface of Gold Nanoparticles			1	
7	Mahyar Ghavami	Roger Zemp	University of Alberta	Fabrication of Transparent Row-column Capacitive Micromachined Ultrasound Transducer (CMUT) Arrays for 3D Photoacoustic Imaging	1			
8	Gabriel Lachance	Amine Miled	Université Laval	Spectrophotomètre hybride portatif pour analyse colorimétrique avec un système d'auto-échantillonnage intégré.				1
9	Ali Poursaadati Zinjanab	Frédéric Nabki	École de technologie supérieure	Impulse Radio Ultra-Wideband (IR-UWB) Transceivers			1	
10	Farzad Mozafari	Majid Ahmadi	University of Windsor	Design of A New Memristive-Based Architecture Using VTM Method			1	
11	Shiva Akhtarian	Pouya Rezaei / Satinder Kaur Brar	York University	Cell Imprinted Polymers Integrated with Microfluidic Biosensors for Electrochemical Detection of Bacteria in Water		1		
12	Pegah Zandi	Seonghwan (Sam) Kim	University of Calgary	Dual Atom-doped Nano Carbon Nitride for Selective CO2 Conversion to Methanol	1			
13	Benjamin Dringoli	David Cooke	McGill University	TRAQC: A New Solution for Quality Control of Printed Electronics	1			
14	Eric Bharucha	Benoit Gosselin / Younès Messaddeq	Université Laval	Waterfall regulators a new topology for powering electronics				1
15	Prashee Arora	Mitra Mirhassani	University of Windsor	Large Integer Multiplication		1		
16	Hassan Kianmehr	Raafat Mansour	University of Waterloo	LC-Integrated Devices Using Microfabrication for Tunable RF and Microwave Applications	1			
17	Ali Maghzian	Pouya Rezaei	York University	Fabrication Of Biomimetic and Flat Collagen Scaffolds Containing Embedded Microchannels Inside 3D Extracellular Matrices With 2D Basement Membrane Linings	1			
18	Yasaman Parvizifard	Ofelia Jianu	University of Windsor	Waste Heat recovery in Heat Exchangers design		1		
19	Yousef Safari	Boris Vaisband	McGill University	ARTSim: A Robust Thermal Simulator for Heterogeneous Integration Platforms			1	

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20	Jalal Dadkhah	Carl Ho	University of Manitoba	Developing an Interleaved GaN-based PFC Converter with a Highly Integrated Package				1
21	Madhan Thirumoorthi	Mitra Mirhassani	University of Windsor	Design of M-Term Overlap-Free Karatsuba Multiplier using CAD Tools			1	
22	Omid Niksan	Mohammad H. Zarifi	University of British Columbia	Microwave Guiding Shown to be Weight and Performance-Efficient by Applying MXene on 3D Lightweight Structures			1	
23	Sepideh Asgari	Sebastian Magierowski	York University	Low-Power and Scalable System on Chip for 3rd Generation of Nanopore-Based DNA Sequencing		1		
24	Weijia Li	David Plant	McGill University	BTO-based Modulators for Next-Generation 200G Optical Transceivers		1		
25	Ayshah Soltansaleki	Garrett Melenka	York University	The validation of Finite Element Analysis of advanced composite material with Digital Volume Correlation method.		1		
26	Alisa Ugodnikov	Craig Simmons	University of Toronto	Development and validation of platforms with integrated electrical sensing for application to in vitro biological barrier modeling		1		
27	Syed Mohammad Hamza	Andy Shih	École de technologie supérieure	Integrating Organic Printed and Flexible Electronics with Conventional Microelectronics for Smart Bandages				1
28	Alireza Geravand	Wei Shi	Université Laval	Ultra-Compact Low-power Silicon Photonic Coherent Modulator				1
29	Parham Pashaei	Peyman Servati	University of British Columbia	High-quality atomically thin heterostructures for electronic and optoelectronic applications	1			
30	Alexi Pauls	Byron Gates	Simon Fraser University	Atomic-Scale Characterization of Microscale Battery Particles Enabled by a High Throughput Focused Ion Beam Milling Technique		1		
31	Santiago Bernal	David Plant	McGill University	TFLN based Modulators and Power Analysis for Next-Generation O-band Intra Datacenters Interconnects				1
32	Chen Li	Christopher Morales	McGill University	Versatile Organ-on-a-Chip: Crafting Organotypic Structures with Dissolvable Microfabricated Templates	1			
33	Emerich Kovacs	Douglas Thomson	University of Manitoba	Lensless Optical Dielectrophoresis Cytometer for Single Cell Analysis				1
35	Lu Luo	Oussama Moutanabbir	Polytechnique Montréal	GeSn nanowire mid-infrared photodetector	1			
36	Vishal Balasubramanian	Mohammad H. Zarifi	University of British Columbia	IoT-Ready Microwave-based Smart Coatings for Real-Time Coating Damage Detection			1	
37	Abel Beyene	Sebastian Magierowski	York University	RISC-V Multicore for Miniature DNA Sequencers				1

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38	Erfan Ghaderi	Behraad Bahreyni	Simon Fraser University	Enhanced Resonant Sensors through Process-Agnostic Structures			1	
39	Matthieu Valdenaire	Dominque Drouin	Université de Sherbrooke	Complete Integration of Semi-Passive Memristor Architecture on CMOS: From Fabrication to Packaging and Custom Test Solution for Neural Computing				1
40	Amel Sassi	Lindan You	University of Toronto	A Novel Bone-Metastasis-on-a-Chip to Investigate Bone Metastasis	1			
41	Mehran Ahadi	Amine Miled	Université Laval	Wearable Vital Signal Monitoring System Using Antenna Sensors				1