

Award for Excellence in Microsystems CAD Tools and Design Methodology

Sponsored by COMSOL

Judges: Akhil Vijay - COMSOL, Charles Matte-Breton - Ciena Quebec, Ebrahim Ghafar-Zadeh - York University

CMC Host/Moderator: Sandra Poulin, Maxan Ferguson-Dyer

Presentation Times	Presenter	University	Title
12:00-12:15	Madhan Thirumoorthi	University of Windsor	Design of M-Term Overlap-Free Karatsuba Multiplier using CAD Tools
12:20-12:35	Tyler Hornsby	Toronto Metropolitan University	Multiphysics Modeling of Low-Intensity Pulsed Ultrasound Induced Chemotherapeutic Drug Release from the Surface of Gold Nanoparticles
12:40-12:55	Ali Poursaadati Zinjanab	École de technologie supérieure	Impulse Radio Ultra-Wideband (IR-UWB) Transceivers
1:00-1:15	Farzad Mozafari	University of Windsor	Design of A New Memristive-Based Architecture Using VTM Method
1:20-1:35	Yousef Safari	McGill University	ARTSim: A Robust Thermal Simulator for Heterogeneous Integration Platforms
1:40-2:00	~~~~~ BREAK ~~~~~		
2:00-2:15	Andrew Gunter	University of British Columbia	Using Machine Learning to Reduce Wasted Time in FPGA CAD Routing
2:20-2:35	Omid Niksan	University of British Columbia	Microwave Guiding Shown to be Weight and Performance-Efficient by Applying MXene on 3D Lightweight Structures
2:40-2:55	Vishal Balasubramanian	University of British Columbia	IoT-Ready Microwave-based Smart Coatings for Real-Time Coating Damage Detection
3:00-3:15	Erfan Ghaderi	Simon Fraser University	Enhanced Resonant Sensors through Process-Agnostic Structures
3:20-3:40	~~~~~ DELIBERATION PERIOD ~~~~~		