

SEMINATEC 2026

Paper ID	Title	Authors	Institution	Presentation (Session I - Wednesday)
5	<i>Performance of different glass/ITO substrates in red light-emitting diodes</i>	Elisa Brito (CTI Renato Archer)* Marcelo Hirata (CTI Renato Archer) Cynthia Barbosa (Universidade Federal de Alagoas) Jilian Freitas (CTI Renato Archer)	CTI Renato Archer	April, 8th
7	<i>Rapid Thermal Processing of RF Sputtered ITO thin films</i>	Leonardo Yojo (CTI Renato Archer)* Lucas Rocha (CTI Renato Archer) Wesley Jalil (CTI Renato Archer) Thebano Santos (CTI Renato Archer)	CTI Renato Archer	April, 8th
9	<i>Effect of Write Time and Voltage on ISFET Memory</i>	Henrique Carvalho (USP)* João Martino (USP) Ricardo Rangel (USP)	USP	April, 8th
11	<i>Dynamic Traceability and Reliability Management: Integrating the Digital Product Passport with Digital Twins and IoT for Batteries and Electronics</i>	Allan Silveira (CTI Renato Archer)* Gabriel Brasil (CTI Renato Archer) Vinicius Peruzzi (CTI Renato Archer) Sebastião Eleuterio (CTI Renato Archer) Carlos Oliveira (CTI Renato Archer) Marcos Pimentel (CTI Renato Archer)	CTI Renato Archer	April, 8th
13	<i>A Didactic Proposal of an I–V Curve Tracer Circuit for Diodes and BJT</i>	Denison Ferreira Silva (FEEC/UNICAMP)* Reimon Sato (FEEC/UNICAMP) Marcos Santos (FEEC/UNICAMP)	UNICAMP	April, 8th
15	<i>Reconstruction Of The Properties Of Two-dimensional Materials From Multiple Characterization Techniques</i>	Isabela Cárdenas (UNICAMP)* Pierre de Assis (UNICAMP) Maria Carolina Volpato (UNICAMP)	UNICAMP	April, 8th
17	<i>Semiconductor Spin Qubits: Materials, Control and Integration</i>	Everton Arrighi (CNPEM)*	CNPEM	April, 8th
19	<i>Impact of FinFET and TFET Technologies on the Performance of Differential Amplifier Design</i>	Pedro Madeira (FESJ - Unesp)* Paula Ghedini Der Agopian (FESJ - Unesp) João Antônio Martino (LSI/EPUSP)	UNESP	April, 8th
21	<i>Review of Artificial Intelligence on Integrated Circuits for Aerospace Applications: An IEEE-Based Perspective</i>	Marcelo Carlos (CTI)*	CTI Renato Archer	April, 8th
23	<i>Characterization of ISFETs with Potassium Ion- Selective Membrane</i>	Pedro Duarte (University of Sao Paulo)* Ricardo Rangel (University of Sao Paulo) Joao Martino (University of Sao Paulo)	USP	April, 8th
29	<i>Development of Multiplexing and Signal Readout Hardware for Gas Detection Using Organic Bipolar Sensors</i>	ANA CAROLINA DOS SANTOS (UNICAMP)* Marco Cavallari (UNICAMP) José Enrique Izquierdo (UFABC)	UNICAMP	April, 8th

31	<i>Radiation reliability analysis of the Cyclone IV FPGA using X-ray</i>	Rafaella Zeron (FEI)* Rodrigo França (Instituto Mauá de Tecnologia) Vanderlei Parro (Instituto Mauá de Tecnologia) Marcilei Guazzelli (FEI) Renato Giacomini (FEI)	Centro Universitário FEI	April, 8th
33	<i>PBTTT-C14 films deposited by blade coating for gas detection: spectroscopy integrity and impedance modeling</i>	Gelson Ferreira (UNICAMP)* Gustavo Antonio Nieri de Barros (UNICAMP) Juan Pablo Medina Bustos (UNICAMP) Jose Enrique Eirez Izquierdo (UFABC) Fernando Josepetti Fonseca (USP) Marco Roberto Cavallari (UNICAMP)	UNICAMP	April, 8th
35	<i>Studies on electron-matter interaction on substrates: effect of non-uniform surfaces on energy distribution</i>	Adauto Neto (Unicamp)* Saulo Alberton (USP)	UNICAMP	April, 8th
37	<i>Study of Micro- and Nanofabrication Techniques for the Development of Aluminum nitride-based dielectric capacitors</i>	Agatha Dutra (Unicamp)* Francisco Rouxinol (Unicamp)	UNICAMP	April, 8th
39	<i>Dispersion Compensation Technique and Self-Phase Modulation for Optical Signal Regeneration at Different Bit Rates</i>	Fabio Barros (UFPA)* Alan dos R. Silva (UFPA) Marcos G. F. dos Santos (UFPA) Simone C. da C. Tavares (UFPA) Lelis A. de Oliveira (UFPA) Fiterlinge M. de Sousa (UFPA) Jorge E. de Oliveira (UFPA) Marcos B. C. Costa (UFPA)	UFPA	April, 8th
41	<i>Mass-Dependent Reliability Assessment of SRIM Damage Calculation Models for HOPG Targets</i>	Lucas Santos (Centro Universitário FEI)* Marcilei Guazzelli (Centro Universitário FEI) Sueli Masunaga (Centro Universitário FEI)	Centro Universitário FEI	April, 8th
43	<i>Engineering the Etch: A Design-of-Experiments Framework for SF₆ Plasma Characterization in MEMS Manufacturing</i>	Franciele Carlesso (INPE) Eduardo Aragão (INPE) Ricardo TEIXEIRA (INPE)*	INPE	April, 8th
45	<i>Decomposition of Drain Current in Conduction Planes of Stacked Nanowire at Low-Temperature</i>	Giovanni Matos (Centro Universitario FEI)* Marcelo Antonio Pavanello (Centro Universitario FEI)	Centro Universitário FEI	April, 8th
47	<i>Autonomous Navigation of Mobile Robots: A Study on Path Planning Algorithms</i>	Murilo Ribeiro (PUC-SP)	PUC-SP	April, 8th
49	<i>Fabrication and Characterization of a Superconducting Transmon Qubit fully fabricated in Brazil</i>	Diego Sanches (UNICAMP)* Francisco Rouxinol (UNICAMP) Gustavo Moreto (UNICAMP) Ednilson Lopes (UNICAMP) Denys Derlian (ITA) Saulo Alberton (UNICAMP)	UNICAMP	April, 8th

51	<i>X-Ray Ionizing Radiation Effects on OCTO MOSFET On-Resistance for Robust IoT Systems</i>	Vinicius Peruzzi (CTI Renato Archer)* Wellington Romeiro de Melo (CTI Renato Archer) Tatiana Parra Vello (CTI Renato Archer) Luis Eduardo Seixas Júnior (CTI Renato Archer) Saulo Finco (CTI Renato Archer) Salvador Pinillos Gimenez (Centro Universitário da FEI)	CTI Renato Archer	April, 8th
53	<i>Improved Analog Integrated Circuit Design via Enhanced Temperature-Independent Transconductance in HDM MOSFETs</i>	Marco Aurélio Peixoto (CEFET/RJ)* Luciano M. Camillo (CEFET/RJ) Salvador P. Gimenez (FEI)	CEFET/RJ	April, 8th
55	<i>Low Schottky Barrier Height 4H-SiC Ni Schottky Barrier Diodes</i>	Renato Beraldo (UNICAMP)*	UNICAMP	April, 8th
57	<i>A Behavioral Python-Based Framework for Sigma-Delta ADC Design Space Exploration in 130nm Aerospace Systems</i>	Rafael Nunes (CTI)*	CTI Renato Archer	April, 8th
59	<i>Methodology for Developing and Integrating a High-Wall PDMS Microfluidic Chamber in Lab-on-Chip Devices</i>	Jefferson Rocha (CTI Renato Archer)* Serguei Balachov (CTI Renato Archer) Iraci Pereira (CTI Renato Archer) Cyro Cioffi (CTI Renato Archer) Andrea Rodas (UFABC) Juliana Daguano (CTI Renato Archer)	CTI Renato Archer	April, 8th
61	<i>TCAD Simulation of Long Channel SOI Nanowire MOSFET down to 82 K</i>	João Victor da Silveira (Centro Universitário FEI)* Marcelo Pavanello (Centro Universitário FEI)	Centro Universitário FEI	April, 8th
63	<i>Analysis of TID and Dose Rate Effects on the Threshold Voltage and Transconductance of NMOS HEXFET Power Transistors</i>	Anna Pereira Pavan (Centro Universitário FEI)* Larissa Malacrida (Centro Universitário FEI) Paulo Garcia (Centro Universitário FEI) Alexis Vilas-Bôas (Centro Universitário FEI) Marcilei Guazzelli (Centro Universitário FEI)	Centro Universitário FEI	April, 8th
65	<i>Improvement of the measurement system for electronic devices exposed to the effects of Total Ionizing Dose (TID) and testing of graphene transistors under TID</i>	João Vitor Daltoé (FEI)*	Centro Universitário FEI	April, 8th
67	<i>Impact of L-, T-, and Π-Networks on the Performance of a Dickson Charge Pump for RF Energy Harvesting</i>	Ewerton da Fonte (Centro Universitário FEI)* Renan Trevisoli (PUC-SP) Rodrigo Doria (Centro Universitário FEI)	Centro Universitário FEI	April, 8th
69	<i>Characterization of Plasma Etching for the Fabrication Process of Superconducting Quantum Devices</i>	Kawan Pereira (UNICAMP)*	UNICAMP	April, 8th

70	<i>Grayscale Electron Beam Lithography of SU-8 for Fabrication of Suspended Microdevices</i>	Gustavo Pimenta (UNICAMP)* Denys Derlian (ITA) Adalto Borge (UNICAMP) Saulo Alberton (UNICAMP) Francisco Rouxinol (UNICAMP)	UNICAMP	April, 8th
71	<i>DEVELOPMENT OF 3D MICROWAVE RESONANT CAVITIES FOR HYBRID QUANTUM SYSTEMS INVOLVING SUPERCONDUCTING QUBITS AND MAGNETIC MATERIALS</i>	Beatriz Sacramento (UNICAMP)* Francisco Rouxinol (UNICAMP) Ednilson Lopes (UNICAMP)	UNICAMP	April, 8th
73	<i>Radiation-Hardening Overhead in ADC Architectures: A Comparative Analysis for Space Missions</i>	Rafael Nunes (CTI)*	CTI Renato Archer	April, 8th