## Schedule CCE 2021

**Wednesday November 10th, 2021**

<table>
<thead>
<tr>
<th>Hour</th>
<th>Room 1</th>
<th>Room 2</th>
<th>Room 3</th>
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<tbody>
<tr>
<td>10:00-11:30</td>
<td></td>
<td></td>
<td>Opening Ceremony and Plenary</td>
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<tr>
<td></td>
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<td></td>
<td>Prof. Gildas Besançon, PhD. Professor Grenoble INP / GIPSA-lab, France.</td>
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<tr>
<td>11:30-12:00</td>
<td></td>
<td>Break</td>
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<tr>
<td>12:00-14:00</td>
<td>BIO 1</td>
<td>NANO</td>
<td>AC 1</td>
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<tr>
<td>14:00-16:00</td>
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<td>Break</td>
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<tr>
<td>16:00-18:00</td>
<td>CS 1</td>
<td>SSM 1</td>
<td>AC 2</td>
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**Thursday November 11th, 2021**

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<thead>
<tr>
<th>Hour</th>
<th>Room 1</th>
<th>Room 2</th>
<th>Room 3</th>
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<tbody>
<tr>
<td>9:00-11:00</td>
<td>CS 2</td>
<td>SSM 2</td>
<td>MEC 1</td>
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<tr>
<td>11:00-11:30</td>
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<td>Break</td>
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<tr>
<td>11:30-12:30</td>
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<td>Plenary</td>
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<td></td>
<td>Prof. Jinjun Shan, PhD. Department of Earth and Space Science and Engineering. York University, Toronto, Canada.</td>
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<tr>
<td>12:30-15:00</td>
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<td>Break</td>
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<tr>
<td>15:00-17:20</td>
<td>BIO 2</td>
<td>MEE</td>
<td>AC 3</td>
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**Friday November 12th, 2021**

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<thead>
<tr>
<th>Hour</th>
<th>Room 1</th>
<th>Room 2</th>
<th>Room 3</th>
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<tbody>
<tr>
<td>9:00-11:00</td>
<td>SSM 3</td>
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<td>AU</td>
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<tr>
<td>11:00-11:30</td>
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<td>Break</td>
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<tr>
<td>11:30-12:30</td>
<td></td>
<td>Plenary</td>
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<tr>
<td></td>
<td></td>
<td>Prof. Des McLernon, PhD. School of Electronic and Electrical Engineering. The University of Leeds. United Kingdom.</td>
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<tr>
<td>12:30-13:00</td>
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<td>Break</td>
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<tr>
<td>13:00-14:00</td>
<td>CS 3</td>
<td>POW/COMM</td>
<td>MEC 2</td>
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<tr>
<td>14:15-14:30</td>
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<td></td>
<td>Closing ceremony</td>
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</tbody>
</table>

**AC**: AUTOMATIC CONTROL, **BIO**: BIOMEDICAL ENGINEERING/BIOMIMETICS, **COMM**: COMMUNICATIONS SYSTEMS, **CS**: COMPUTER SCIENCE AND COMPUTER ENGINEERING, **MEC**: MECHATRONICS, **MEE**: MECHANICAL ENGINEERING, **NANO**: NANOTECHNOLOGY, **POW**: POWER ELECTRONICS, **SSM**: SOLID-STATE MATERIALS, ELECTRON DEVICES AND INTEGRATED CIRCUITS, **AU**: AUTONOMOUS NAVIGATION EXOSKELETONS
**Automatic Control (AC)**

**Session AC 1 - IDENTIFICATION/ADAPTABLE**  
**Wednesday November 10th, 2021**  
**12:00-14:00**  
**Room 3**  
**Session Chair:** Dr. Rubén Garrido Moctezuma

<table>
<thead>
<tr>
<th>ID</th>
<th>Hour</th>
<th>Title</th>
<th>Authors</th>
</tr>
</thead>
<tbody>
<tr>
<td>ID 68</td>
<td>12:40-13:00</td>
<td>Parameter identification from hybrid model using PSO and penalty functions.</td>
<td>Ricardo Cortez, Yair Lozano and Ruben Garrido.</td>
</tr>
</tbody>
</table>

**Session AC 2 - CONTROL APPLICATIONS**  
**Wednesday November 10th, 2021**  
**16:00-18:00**  
**Room 3**  
**Session Chair:** Dr. Javier Ruiz León

<p>| ID 15 | 16:00-16:20 | Control Scheme for Rotary Base Inverted Pendulum by Means of Nested Saturation Functions. | Cesar Alejandro Villaseñor Rios and Octavio Gutierrez-Frias. |</p>
<table>
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<tr>
<th>ID</th>
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<th>Title</th>
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<tbody>
<tr>
<td>101</td>
<td>16:40-17:00</td>
<td>Modeling and simulation of a Furuta pendulum actuated by an inertial Wheel.</td>
<td>Israel Alejandro Cadena Luqueño, Martin Bustamante Enciso and Rafael Stanley Nuñez Cruz</td>
</tr>
<tr>
<td>39</td>
<td>17:00-17:20</td>
<td>Simplified Reactive Power Control of a Multilevel Inverter for Grid-Connected Photovoltaic Applications.</td>
<td>Jose Francisco Perez, Roberto Morales and Marco A. Morales-Caporal.</td>
</tr>
<tr>
<td>60</td>
<td>15:00-15:20</td>
<td>Concurrent Fault Diagnosis Based on an Extended Kalman Filter.</td>
<td>Adrian Lizarraga, Ofelia Begovich and Antonio Ramírez.</td>
</tr>
<tr>
<td>42</td>
<td>16:00-16:20</td>
<td>A Disturbance Observer Based Control scheme using an Active Disturbance Rejection Controller: An underactuated moving crane example.</td>
<td>Brian Camilo Gomez Leon, Mario Andres Aguilar-Orduña and Hebertt José Sira-Ramírez.</td>
</tr>
<tr>
<td>65</td>
<td>16:40-17:00</td>
<td>A Novel Method to Analyze Input-Output Controllability.</td>
<td>Muhammad Ibrahim and Imran Hameed.</td>
</tr>
</tbody>
</table>

**Session AC 3 - NONLINEAR/DIAGNOSIS**
**Thursday November 11th, 2021**
**15:00-17:00**
**Room 3**
**Session Chair: Dr. Antonio Ramírez Treviño**

**Autonomous Navigation - Exoskeletons**
**Session AU**
*Friday November 12th, 2021*
*9:00-11:00*
*Room 3*
**Session Chair:** Dra. Fátima Oliva

**ID 44**  **9:00-9:20**  
**A New Positioning Algorithm Robust to Measured Distances Errors for Non-Overdetermined Systems.**  
Luis Angel Arellano Cruz, Giselle Monserrat Galvan Tejada and Rogelio Lozano Leal.

**ID 109**  **9:20-9:40**  
**Collision-Free Path Planning Applied Robotic Arms Using Homotopy Continuation Methods for Embedded Systems.**  
Gerardo César Vélez López, Luis Hernández Martínez and Héctor Vázquez Leal.

**ID 61**  **9:40-10:00**  
**Toward a single-pixel near-infrared low-resolution 2D image reconstruction strategy.**  
Carlos Alexander Osorio Quero, Andrés Mauricio García, Daniel Durini Romero Romero, José de Jesús Rangel Magdaleno, Jose Martinez-Carranza and Rubén Ramos-Garcia.

**ID 110**  **10:00-10:20**  
**Development of an Efficient Path Planning Algorithm for Indoor Navigation.**  
Omar Vicente Perez Arista, Oscar Rafael Vargas Barona and Rafael Stanley Nuñez Cruz.

**ID 105**  **10:20-10:40**  
**Control and cable deployment of a tethered PVTOL aircraft.**  
Carlos Guillermo Valerio Naranjo, Eduardo Steed Espinoza Quesada and Rogelio Lozano Leal.

**ID 126**  **10:40-11:00**  
**Autonomous navigation of a mobile robot using a network of Hindmarsh-Rose (HR) neurons.**  
Enrique Martinez Sanchez, Alejandro Rodriguez Angeles and Jonatan Pena Ramirez.

**ID  Hour**  

**Biomedical Engineering/ Biomimetics (BIO)**

**Session BIO 1**
*Wednesday November 10th, 2021*
*12:00-14:00*
*Room 1*
**Session Chair:** Dra. Blanca Tovar Corona

**ID 5**  **12:00-12:20**  
**An objective analysis of human snoring based on an acoustic technique to determine the obstruction site.**  
Judith Guzman, Eladio Cardiel, Laura I. Garay-Jimenez and Pablo Rogelio Hernandez.

**ID 8**  **12:20-12:40**  
**Vestibulo Ocular Reflex Analysis while Using a Virtual Reality Headset.**  
Geovanny Palomino-Roldan and Ernesto Suaste-Gomez.

**ID 10**  **12:40-13:00**  
**Phoniatric system based on acoustical analysis for early detection of anomalies in voice production.**  
Ana Laura Cazarín, Eladio Cardiel, Laura I. Garay-Jimenez and Pablo Rogelio Hernández.
ID 69  13:00-13:20  EEG motor/imagery signal classification comparative using machine learning algorithms.  
Alicia Guadalupe Lazcano-Herrera, Rita.Q. Fuentes-Aguilar and Mariel Alfaro-Ponce.

Rodrigo Leite-Prates, Wilfrido Gómez-Flores and Wagner Coelho de Albuquerque Pereira.

ID 83  13:40-14:00  Temperature prediction based on ANN linear regression with an LWIR sensor for the study of diabetic foot.  
Rafael Bayareh Mancilla, Christian Daul, Josefina Gutiérrez Martínez, Arturo Vera Hernández, Didier Wolf and Lorenzo Leija Salas.

Session BIO 2  
Thursday November 11th, 2021  
15:00-17:20  
Room 1  
Session Chair: Dra. Blanca Tovar Corona

ID 7  15:00-15:20  Design and Manufacture of a Training System for Ventriculostomy.  
Abimael Terrones Acosta, Daniel Lorias-Espinoza, Vicente González Carranza, Fernando Pérez-Escamirosa, Jose Antonio Gutiérrez-Gneché and Rigoberto Martínez Méndez.

Jose Ruben Huerta Osnaya.

ID 63  15:40-16:00  Anisotropy properties of chicken muscle tissues with bioimpedance measurements via AD5933EBZ.  
Karla Itzel Suárez Pérez, Daniel Sarir Apátiga Pérez, Antonio Héctor Dell'Osa and Miguel Ramírez-Barrios.

ID 17  16:00-16:20  Ictal Periods Detection in Photoplethysmographic and Electrodermal Signals.  
María Fernanda Ramírez-Peralta, María Fernanda Romo-Fuentes, Blanca Tovar-Corona, Martin Arturo Silva-Ramírez and Laura Ivoone Garay-Jiménez.

ID 104  16:20-16:40  Artifacts removal in electrodermal signals.  
Rosario Ríos-Prado, Blanca Tovar-Corona and Laura Ivoone Garay-Jiménez.

ID 114  16:40-17:00  Prototype of an Ambulatory Long-Term ECG Monitoring System For Real-Time Detection Of QRS Complex and T-Wave end Based on an FPGA.  
Jose Alberto García Limón, Frank Martínez Suárez and Carlos Alvarado Serrano.

ID 37  17:00-17:20  Open-Ended Coaxial Probe Technique for the measurement of the ionic strength due to magnesium sulfate heptahydrate in water.  
Edel-Serafín Hernandez-Gomez, Jose-Luis Olvera-Cervantes, Benito Corona-Vasquez, Alonso Corona-Chavez, Tejinder-Kaur Kataria and Maria-Elena Sosa-Morales.
**Computer Science and Computer Engineering (CS)**

**Session CS 1**  
*Wednesday November 10th, 2021*  
*16:00-18:00*  
*Room 1*  
**Session Chair:** Dra. Alicia Morales Reyes

**ID 22**  
**16:00-16:20**  
**Visual-based Real Time Driver Drowsiness Detection System Using CNN.**  
Jonathan Flores-Monroy, Mariko Nakano-Miyatake, Gabriel Sánchez-Pérez and Hector Pérez-Meana.

**ID 72**  
**16:20-16:40**  
**Discovering Structurally Simple Workflow Nets by Vector-Based Trace Clustering.**  
Cesar Barron-Rubio and Ernesto Lopez-Mellado.

**ID 74**  
**16:40-17:00**  
**Instance Selection Based on Linkage Trees.**  
Wilfrido Gómez-Flores, Samuel Omar Tovias-Alanis and Gregorio Toscano-Pulido.

**ID 121**  
**17:00-17:20**  
**Comparison of performance of two virtual screening software on acetylcholinesterase protein molecular docking.**  
Aldo Yair Tenorio Barajas, Dulce Estefanía Nicolás Álvarez, Andres Reyes Chaparro, Claudia Oliva Mendoza Barrera, Brenda Magaña Trejo and Víctor Manuel Altuzar Aguilar.

**ID 87**  
**17:20-17:40**  
**Automatic Generation of Test Cases from Formal Specifications using Mutation Testing.**  
Román Jaramillo, Raúl González and Pedro Mejía.

**Session CS 2**  
*Thursday November 11th, 2021*  
*9:00-11:00*  
*Room 1*  
**Session Chair:** Dr. Wilfrido Gómez Flores

**ID 12**  
**9:00-9:20**  
**Multimodal Deep Learning via Late Fusion for Non-destructive Papaya Fruit Maturity Classification.**  
Cinmayii Garillos-Manliguez and John Chiang.

**ID 20**  
**9:20-9:40**  
**A Comparative Study with Different Machine Learning Algorithms for Diabetes Disease Prediction.**  
Hafsa Binte Kibria, Abdul Matin, Nusrat Jahan and Sanzida Islam.

**ID 81**  
**9:40-10:00**  
**A Novel Hybrid Gene Selection Based on Random Forest Approach and Binary Dragonfly Algorithm.**  
Sayed Pedram Haeri Boroujeni and Elnaz Pashaei.
ID 92  10:00-10:20  Quantitative Comparisons of Edge Based and Region Based Feature Detection in Digital Aerial Imagery Analysis.
Zhengmao Ye.

ID 111  10:20-10:40  Effect of Rate of Change of Stock Prices with News Sentiment Analysis.
Sashank Sridhar and Sowmya Sanagavarapu.

ID 123  10:40-11:00  Supervised Neural Network for Offline Forgery Detection of Handwritten Signature.
Muhammad Aslam, Ana Maria Martinez Enriquez and Saleem Summra.

Session CS 3
Friday November 12th, 2021
13:00-14:00
Room 1
Session Chair: Dr. Miguel Morales Sandoval

ID 38  13:00-13:20  A Lightweight Security Protocol for Beacons BLE.
Karla J. Campos-Cruz, Cuauhtemoc Mancillas-López and Brisbane Ovilla-Martínez.

Sara Eugenia Rodríguez Reyes, Pablo Benavides Herrera, Gregorio Alberto Álvarez Álvarez, Riemann Ruiz Cruz and Juan Diego Sánchez Torres.

ID 77  13:40-14:00  Edge computing SoC implementation of compressive sensing algorithm for single-pixel cameras.
Andres Manjarrés García, Carlos Osorio Quero, Jose Rangel-Magdaleno, Jose Martinez-Carranza and Daniel Durini.

ID  Hour  Mechanical Engineering (MEE)

Session MEE
Thursday November 11th, 2021
16:00-17:00
Room 2
Session Chair: Dr. Manuel Arias Montiel

ID 2  16:00-16:20  Influence of MMT Reinforcement Fraction Variation on the Mechanical Properties of a Polycarbonate Polymer Matrix with an ABS Additive.
Jean Carlos Criado Jiménez, Carolina Abril Carrascal and Carlos Steven Sánchez Rincón.

Andres Rodríguez-Torres, Jesús Morales Valdez and Wen Yu.
Soft computing tools for multiobjective optimization of offshore crude oil and gas separation plant for the best operational condition.
José H. Mendoza, Rasikh Tariq, Luis F Santis Espinosa, Francisco Anguebes and A. Bassam.

**Mechatronics (MEC)**

**Session MEC 1**
*Thursday November 11th, 2021*
9:00-11:00
Room 3
*Session Chair: Dr. Alejandro Rodríguez Ángeles*

**ID 50 9:00-9:20**
Comparative performance of two 2-D detectors in the case of multipixel low contrast object on a real sea surface.
Maria Karen Gonzalez, Victor Golikov, Hussain Alazki and Oleg Samovarov.

**ID 54 9:20-9:40**
Obstacle avoidance in leader-follower formation using artificial potential field algorithm.
Javier Lagunas, Rafael Castro and Jaime Alvarez.

**ID 94 9:40-10:00**
Jetzael Cuazoson, Daniel Ferrusca, Jesus Contreras, Eduardo Ibarra-Medel, Miguel Velázquez, Stanley Kurtz and David Hiriart.

**ID 95 10:00-10:20**
Automotive engine fault detection and isolation using LSTM for model-based residual sequence classification.
Mohammed Youssef and Hesham Ibrahim.

**ID 108 10:20-10:40**
Tuning, Control and Path Planning of a Spherical Robot using Stochastic Signals.
Sergio Daniel Sanchez Solar, Gustavo Rodriguez Gomez, Angelica Muñoz Melendez and Jose Martinez Carranza.

**Session MEC2**
*Friday November 12th, 2021*
13:00-14:00
Room 3
*Session Chair: Dr. Jesús Linares-Flores*

**ID 24 13:00-13:20**
Implementation of a BLDC Motor Observer Scheme using the INSTASPIN Platform.
Axel Coronado, Alejandra de la Guerra Carrasco and Luis Alvarez-Icaza.

**ID 102 13:20-13:40**
FPGA-based accuracy mechatronics of a feed-drive system with ball screw.
Carlos Emilio Márquez García, Jesus Lopez Gomez, Fermin Marinez Solis, M. A. Díozcora Vargas Treviño, Sergio Vergara Limon and Victor Manuel Velazquez Aguilar.
ID 113  13:40-14:00  Rotor position estimation in a bldc motor at low speed using g-functions and extended state observers.
Isaí Jiménez Hernández, Carlos García Rodríguez and Jesús Linares Flores.

ID  Hour  Nanotechnology (Materials and Applications) (NANO)

Session NANO
Wednesday November 10th, 2021
12:00-14:00
Room 2
Session Chair: Dra. Eugenia Paola Arévalo-López

ID 56  12:00-12:20  Effect of argon plasma treatment on electronic properties of doped hydrogenated Silicon thin films for photovoltaic applications.
Manmohan Jain, Sucheta Juneja, Mohit Jain, Kalpana Lodhi, Chander Kant, Ateet Dutt, Yasuhiro Matsumoto and Sushil Kumar.

ID 16  12:20-12:40  Photoluminescence properties of SiOxCy-films deposited under argon atmosphere and Si-based organometallic precursor by O-Cat-CVD.
Manmohan Jain, Andrés Galdámez-Martínez, Ateet Dutt and Yasuhiro Matsumoto.

ID 70  12:40-13:00  Bandgap dependence on facet and size engineering of TiO2: A DFT Study.

ID 97  13:00-13:20  Synthesis and Characterization of Ge Nanoclusters in Amorphous GeOx (x~0.1) Nano-Films Grown by Magnetron Sputtering.
Javier Sotelo Medina, Daniel Ortiz Gutiérrez, Vyacheslav Elyukhin and Ramón Peña Sierra.

Patricia Guadalupe López-Cárdenas, Emmanuel Alcalá, Juan Diego Sánchez-Torres and Elsie Araujo.

ID 75  13:40-14:00  Improvement the optical properties of the P3HT:PC70BM film using CdSe QD.
Jorge Cruz-Gómez, Aruna Devi Rasu-Chettiar, Francisco Javier de Moure-Flores, Sandra Andrea Mayén-Hernández, Adrián Sosa-Domínguez and José Santos-Cruz.

ID  Hour  Power Electronics /Communications Systems

Session POW/COMM
Friday November 12th, 2021
13:00-14:00
Room 2
Session Chair: Dr. Adrián René Ramirez López
Model Predictive Current Control of a Permanent Magnet Synchronous Machine with Exponential Cost Function.
Francisco B. González Sáenz and Omar Sandre Hernández.

DFT-based phasor estimator using a MAF with a phase-lead compensator.
Rafael Escudero, Luis Ibarra, Pedro Ponce and Arturo Molina.

5G Connectivity for Aerial Scenarios: a New Spatial and Temporal Perspective for Wireless Networks.
Giselle Galvan-Tejada and Jorge Aguilar-Torrentera.

Improving thermal stability of perovskite solar cell through interface modification by PbS quantum dots.
Evelyn B. Díaz-Cruz, E. Regalado-Pérez, Jorge Cruz-Gómez, X. Mathew, F. J. de Moure-Flores, Francisco Paraguay-Delgado and José Santos-Cruz.

Numerical Optimization of Materials Properties for High-Efficiency CIGSe Thin Film Solar Cells Using SCAPS-1D Simulator.
Ashok Adhikari, Ganesh Regmi, Dr. Velumani Subramaniam, Luis Dorian Valencia Ordonez, Jorge Evaristo Conde Díaz and Homero Castaneda-Lopez.

Double ETL in ITO-free poly-3-hexylthiophene-based organic solar cells.
Jesus Fernando Solís Vivanco, Rasu Chettiar Aruna Devi, Maria Concepcion Arenas Arroccena, Adrian Sosa Domínguez, Francisco Javier De Moure Flores and Jose Santos Cruz.

Graphene for a green-environmentally methodology with organic surfactants.
Bruno Renato Flores-Hernández, Francisco Javier de Moure-Flores, Sandra Andrea Mayén-Hernández and José Santos-Cruz.

Molecular Dynamics simulation of Cu-Se interactions for CIGS solar cells growth process.
Citlalli Vázquez, César Camas, Jorge Conde and Héber Vilchis.

Session SSM 2
Thursday November 11th, 2021
9:00-11:00
Room 2
Session Chair: Dr. Yasuhiro Matsumoto

Optimized Graphene Nanoribbon UV Phototransistor Based on ZnO Sensitive Gate for Optical Wireless Communications.
Faycal Djeffal and Hichem Ferhati.

Optoelectrothermoelectric properties of ternary chalcogenides thin films of CuSbS2 and Cu12Sb4S13.
Daniel Trejo-Zamudio, Sandra Andrea Mayén-Hernández, José Guadalupe Quiñones-Galván, Francisco Javier de Moure-Flores, María Lucero Gómez-Herrera and José Santos-Cruz.

Structural, optical and morphological characterization of Sb2S3 thin films grown by Physical Vapor Deposition.
David Santos Cruz, Maria de La Luz Olvera Amador, Sayda Dinorah Coria Quiñones, Francisco Javier de Moure Flores and Jose Santos Cruz.

Optoelectronic properties of Sb2S3 thin films grown by Physical Vapor Deposition.
Jorge Cruz-Gómez, Enrique Hernández-Cantero, David Santos-Cruz, Sandra Andrea Mayén-Hernández, Francisco Javier De Moure-Flores and José Santos-Cruz.

Synthesis, characterization, and structure computational calculations of the oxycalcogenide LaCuOSe for thermoelectric applications.
J.A. Melchor-Robles, T.G. Díaz-Rodríguez, Jacobo Martínez-Reyes, A. Maldonado-Álvarez and María de La Luz Olvera-Amador.

Dr. Ramakrishna V.

Session SSM 3
Friday November 12th, 2021
9:00-11:00
Room 2
Session Chair: Dra. Griselda Stephany Abarca-Jiménez

High Transconductance Gain Low Voltage Class AB OTA.
Jasiel Hernandez and Ivan Padilla.

A Two-level Modeling Methodology for Memristive Devices.
Jesús Jiménez-León, Arturo Sarmiento Reyes and Pedro Rosales Quintero.
<table>
<thead>
<tr>
<th>ID</th>
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<th>Title</th>
<th>Authors</th>
</tr>
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<tbody>
<tr>
<td>ID 62</td>
<td>9:40-10:00</td>
<td>Micromotors unit based on CMOS-MEMS technology integrated on a single chip.</td>
<td>Andrea López-Tapia, Luis Sánchez-Márquez, Mario Alfredo Reyes-Barranca, Griselda Stephany Abarca-Jiménez and Luis Martín Flores-Nava.</td>
</tr>
<tr>
<td>ID 49</td>
<td>10:20-10:40</td>
<td>Genetic Algorithm-based Approach to Enhance the Performance of Gate Engineered InGaZnO UV Thin-Film Phototransistor.</td>
<td>Hichem Ferhati and Fayçal Djeffal.</td>
</tr>
</tbody>
</table>