# Official and Pending Research Publications of SLSU Engineering Faculty (International)

| No. | Faculty | Research | Publisher | Publication Date | ISSN/ISBN Number | DOI | Awards | IEEE Publication Link | Scopus-Indexed |
|---|---|---|---|---|---|---|---|---|---|
| 1 | **Renato R. Maaliw III (SLSU)** <br> Alvin S. Alon (BATSU) <br> Ace C. Lagman (FEU Tech) <br> Manuel B. Garcia (FEU Tech) <br> Marmelo V. Abante (WCC) <br> Rodrigo C. Belleza Jr. (MSEUF) <br> Jose B. Tan Jr. (MSEUF) <br> Roselyn A. Maaño (MSEUF) | Cataract Detection and Grading Using Ensemble Neural Networks and Transfer Learning | IEEE | [For Review] | | | | | |
| 2 | Ryan C. Reyes (TUP) <br> Myriam J. Polinar (BISU) <br> Richardson M. Dasalla (IFSU) <br> Godofredo S. Zapanta Jr. (PLP) <br> Mark P. Melegrito (TUP) <br> **Renato R. Maaliw III (SLSU)** | Computer Vision-Based Signature Forgery Detection System Using Deep Learning: A Supervised Learning Approach | IEEE | [For Publication] | [Pending] | [Pending] | | [Pending] | [Pending] |
| 3 | Ryan C. Reyes (TUP) <br> Rovenson V. Sevilla (TUP) <br> Godofredo S. Zapanta Jr. (PLP) <br> Jovencio V. Merin (TUP) <br> **Renato R. Maaliw III (SLSU)** <br> Al Ferrer Santiago (EARIST) | Safety Gear Compliance Detection Using Data Augmentation-Assisted Transfer Learning in Construction Work Environment | IEEE | [For Publication] | [Pending] | [Pending] | | [Pending] | [Pending] |
| 4 | **Renato R. Maaliw III (SLSU - CPE)** <br> **Julie Ann B. Susa (SLSU - CPE)** <br> Alvin S. Alon (Batangas State) <br> Ace C. Lagman (FEU Tech) <br> Shaneth C. Ambat (FEU Tech) <br> Manuel B. Garcia (FEU Tech) <br> Ma. Corazon Fernando - Raguro (FEU Tech) | A Deep Learning Approach for Automatic Scoliosis Cobb Angle Identification | IEEE | July 13, 2022 | 978-1-6654-8453-4 | 10.1109/AIIoT54504.2022.9817290 | Best Paper on Artificial Intelligence and Machine Learning Track | https://ieeexplore.ieee.org/document/9817290 | Yes (Verified) |
| 5 | **Renato R. Maaliw III (SLSU - CPE)** <br> **Karen Anne C. Quing (SLSU - BAPsych)** <br> **Julie Ann B. Susa (SLSU - CPE)** <br> **Jed Frank S. Marqueses (SLSU - BSMath)** <br> Ace C. Lagman (FEU Tech) <br> Rossana T. Adao (FEU Tech) <br> Ma. Corazon Fernando - Raguro (FEU Tech) <br> Ranie B. Canlas (DHVSU) | Clustering and Classification Models For Student's Grit Detection in E-Learning | IEEE | July 13, 2022 | 978-1-6654-8453-4 | 10.1109/AIIoT54504.2022.9817177 | | https://ieeexplore.ieee.org/document/9817177 | Yes (Verified) |
| 6 | **Laily Mariz A. Bengua (SLSU - EE)** <br> **Vanessa Jane D. De Guzman (SLSU - EE)** <br> **Danica Mae S. Macunat (SLSU - EE)** <br> **Efren D. Villaverde (SLSU - EE)** <br> **Aubee T. Mahusay (SISU - EE)** <br> **Renato R. Maaliw III (SLSU - CPE)** | Salted Egg Cleaning and Grading System Using Machine Vision | IEEE | July 13, 2022 | 978-1-6654-8453-4 | 10.1109/AIIoT54504.2022.9817366 | | https://ieeexplore.ieee.org/document/9817366 | Yes (Verified) |
| 7 | **Julie Ann B. Susa (SLSU - CPE)** <br> **Renato R. Maaliw III (SLSU - CPE)** <br> **Carla May C. Ceribo (SLSU - CPE)** <br> Jonel Macalisang (TUP) <br> Bernard C. Fabro (EARIST) | An Efficient Safety and Authorized Helmet Detection using Deep Learning Approach | IEEE | [Pending] | [Pending] | | | [Pending] | [Pending] |
| 8 | **Julie Ann B. Susa (SLSU - CPE)** <br> **Wendy C. Nombrefia (SLSU - Infanta)** <br> **Alfredo S. Abustan Jr. (SLSU - Infanta)** <br> **Renato R. Maaliw III (SLSU - CPE)** <br> Jonel Macalisang (TUP) | Deep Learning Technique Detection for Cotton and Leaf Classification using YOLO Algorithm | IEEE | [For Publication] | [Pending] | | | [Pending] | [Pending] |
| 9 | **Zoren P. Mabunga (SLSU - ECE)** <br> Jennifer De la Cruz (MAPUA) | An Optimized Soil Moisture Prediction Model for Smart Agriculture Using Gaussian Process Regression | IEEE | May 27, 2022 | 978-1-6654-8529-6 | 10.1109/CSPA55076.2022.9781897 | | https://ieeexplore.ieee.org/document/9781897 | Yes (Verified) |
| 10 | Earl Jayson B. Alvaran (FEU Tech) <br> Lourwel P. Alfonso (FEU Tech) <br> **Renato R. Maaliw III (SLSU - CPE)** <br> Rossana T. Adao (FEU Tech) <br> Ace C. Lagman (FEU Tech) <br> Irish C. Juanatas (FEU Tech) <br> Ma. Corazon Fernando - Raguro (FEU Tech) | Web-Based Performance Evaluation System Platform Using Rule-Based Algorithm | IEEE | May 26, 2022 | 978-1-6654-8047-5 | 10.1109/ICIET55102.2022.9778996 | | https://ieeexplore.ieee.org/document/9778996 | Yes (Verified) |

| | Authors | Title | Publisher | Date | ISBN | DOI | Award | Link | Verified |
|---|---|---|---|---|---|---|---|---|---|
| 11 | Mary Ann F. Quioc (PSH)<br>Shaneth C. Ambat (FEU Tech)<br>Ace C. Lagman (FEU Tech)<br>Ronel F. Ramos (FEU Tech)<br>**Renato R. Maaliw III (SLSU - CPE)** | Analysis of Exponential Smoothing Forecasting Model of Medical Cases for Resource Allocation Recommender System | IEEE | May 26, 2022 | 978-1-6654-8047-5 | 10.1109/ICIET55102.2022.9778987 | | https://ieeexplore.ieee.org/document/9778987 | Yes (Verified) |
| 12 | Erickson Santiago (Batangas State)<br>Elenor M. Reyes (Batangas State)<br>Meriam L. Tria (EARIST)<br>**Jerwin V. Obmerga (SLSU - CPE)**<br>Ryan Carreon Reyes (TUP) | Deep Convolutional Neural Network for Detection of Cigarette Smokers in Public Places: A Low Sample Size Training Data Approach | IEEE | May 2, 2022 | 978-1-6654-9501-1 | 10.1109/DASA54658.2022.9765180 | | https://ieeexplore.ieee.org/document/9765180 | Yes (Verified) |
| 13 | Von Cedrick M. Calderon (Batangas State)<br>Jeffrey S. Sarmiento (Batangas State)<br>Christopher Franco Cunanan (Bulacan State)<br>**Carla May C. Ceribo (SLSU - CPE)**<br>Gemma D. Belga (TUP) | Identification of Parasitized Single Cell from Normal Using Deep Learning Approach | IEEE | May 2, 2022 | 978-1-6654-9501-1 | 10.1109/DASA54658.2022.9765258 | | https://ieeexplore.ieee.org/document/9765258 | Yes (Verified) |
| 14 | **Renato Maaliw III (SLSU - CPE)**<br>**Karen Anne C. Quing (SLSU - BAPsych)**<br>Ace C. Lagaman (FEU Tech)<br>Melvin A. Ballera (TIP)<br>Bernard H. Ugalde (UTAS - Oman)<br>Michael Angelo D. Ligayo (QCU) | Employability Prediction of Engineering Graduates Using Ensemble Classification Modeling | IEEE | March 4, 2022 | 978-1-6654-8303-2 | 10.1109/CCWC54503.2022.9720783 | | https://ieeexplore.ieee.org/document/9720783 | Yes (Verified) |
| 15 | **Aubee T. Mahusay (SLSU - EE)**<br>Senen Fenomeno (MAPUA) | Electricity Consumption Prediction Model for Southern Luzon State University-Main Campus Using Artificial Neural Network | IEEE | March 4, 2022 | 978-1-6654-8303-2 | 10.1109/CCWC54503.2022.9720829 | | https://ieeexplore.ieee.org/document/9720829 | Yes (Verified) |
| 16 | **Renato Maaliw III (SLSU - CPE)** | A Personalized Virtual Learning Environment Using Multiple Modeling Techniques | IEEE | January 10, 2022 | 978-1-6654-0690-1 | 10.1109/UEMCON53757.2021.9666645 | Best Paper on Big Data Analytics Track | https://ieeexplore.ieee.org/document/9666645 | Yes (Verified) |
| 17 | **Renato Maaliw III (SLSU - CPE)**<br>Melvin Ballera (TIP)<br>**Zoren Mabunga (SLSU - ECE)**<br>**Aubee Mahusay (SLSU - EE)**<br>**Dhenalyn Dejelo (SLSU - BS Nursing)**<br>**Mariebeth Seño (SLSU - BSMath)** | An Ensemble Machine Learning Approach for Time Series Forecasting of COVID-19 Cases | IEEE | December 6, 2021 | 978-1-6654-0066-4 | 10.1109/IEMCON53756.2021.9623074 | Best Paper on Data Analytics & Big Data Track | https://ieeexplore.ieee.org/document/9623074 | Yes (Verified) |
| 18 | **Maurine Panergo (SLSU - ECE)**<br>Febus Reidj Cruz (MAPUA)<br>**Renato Maaliw III (SLSU - CPE)** | A Circuit Design of a Sensor Amplifier for Improving Blood Pressure Measurement in Telehealth System | IEEE | December 6, 2021 | 978-1-6654-0066-4 | 10.1109/IEMCON53756.2021.9623070 | | https://ieeexplore.ieee.org/document/9623074 | Yes (Verified) |
| 19 | **Renato Maaliw III (SLSU - CPE)**<br>**Zoren Mabunga (SLSU - ECE)**<br>**Frederick Villa (SLSU - ELT)** | Time-Series Forecasting of COVID-19 Cases Using Stacked Long Short-Term Memory Networks | IEEE | November 13, 2021 | 978-1-6654-4032-5 | 10.1109/3ICT53449.2021.9581688 | Best Paper on Role of Modern Technologies in Combating COVID-19 track | https://ieeexplore.ieee.org/document/9581688 | Yes (Verified) |
| 20 | Angelica Samortin (MAPUA)<br>Jennifer Dela Cruz (MAPUA)<br>**Zoren Mabunga (SLSU - ECE)** | The Optimization of a 5G Inset-fed Patch Antenna Using the Machine Learning Algorithm Surrogate Model Assisted Differential Evolution for Antenna Synthesis | IEEE | September 30, 2021 | 978-1-6654-3890-2 | 10.1109/CCET52649.2021.9544345 | | https://ieeexplore.ieee.org/document/9544345 | Yes (Verified) |
| 21 | **Zoren Mabunga (SLSU - ECE)**<br>Jennifer C. dela Cruz (MAPUA)<br>Angelica Samortin (MAPUA)<br>**Renato Maaliw III (SLSU)** | Utilization of Different Wireless Technologies' RSSI for Indoor Environment Classification Using Support Vector Machine | IEEE | August 20, 2021 | 978-1-6654-4011-0 | 10.1109/ICSGRC53186.2021.9515242 | | https://ieeexplore.ieee.org/document/9515242 | Yes (Verified) |
| 22 | **Renato Maaliw III (SLSU - CPE)** | Early Prediction of Electronics Engineering Licensure Examination Performance using Random Forest | IEEE | July 22, 2021 | 978-1-6654-3568-1 | 10.1109/AIIoT52608.2021.9454213 | Best Paper on Big Data, Data Management & Analytics | https://ieeexplore.ieee.org/document/9454214 | Yes (Verified) |
| 23 | Angelica Samortin (MAPUA)<br>Jennifer C. Dela Cruz (MAPUA)<br>Ramon Garcia (FEU Tech)<br>**Zoren Mabunga (SLSU - ECE)** | The Analysis of Staphylococcus aureus Bacteria after Exposure to Electromagnetic Radiation via Support Vector Machine | IEEE | April 16, 2021 | 978-1-6654-1971-0 | 10.1109/HNICEM51456.2020.9400030 | | https://ieeexplore.ieee.org/document/9400030 | Yes (Verified) |

| No. | Faculty | Research | Publisher | Publication Date | ISSN/ISBN Number | DOI | Publication Link | Verified |
|---|---|---|---|---|---|---|---|---|
| 24 | **Zoren Mabunga (SLSU - ECE)**<br>Jennifer C. dela Cruz (MAPUA)<br>Glenn Magwili (MAPUA)<br>Angelica Samortin (MAPUA) | Development of Sanitary Landfill's Groundwater Contamination Detection Model Based on Machine Learning Algorithms | IEEE | April 16, 2021 | 978-1-6654-1971-0 | 10.1109/HNICEM51456.2020.9400140 | | https://ieeexplore.ieee.org/document/9400140 | Yes (Verified) |
| 25 | Angelica Samortin (MAPUA)<br>Jennifer C. Dela Cruz (MAPUA)<br>Ramon Garcia (FEU Tech)<br>**Zoren Mabunga (SLSU - ECE)** | The Effect of Various Ultra High Frequency Radiation on the Evolution of the Staphylococcus aureus | IEEE | April 16, 2021 | 978-1-6654-1971-0 | 10.1109/HNICEM51456.2020.9400142 | | https://ieeexplore.ieee.org/document/9400142 | Yes (Verified) |
| 26 | **Zoren Mabunga (SLSU - ECE)**<br>Jennifer C. dela Cruz (MAPUA)<br>Glenn Magwili (MAPUA)<br>Angelica Samortin (MAPUA) | Development of Sanitary Landfill's Carbon Dioxide Concentration Models Using Machine Learning Algorithms | IEEE | April 16, 2021 | 978-1-6654-1971-0 | 10.1109/HNICEM51456.2020.9400077 | | https://ieeexplore.ieee.org/document/9400077 | Yes (Verified) |
| 27 | **Zoren Mabunga (SLSU - ECE)**<br>Glenn Magwili (MAPUA) | Greenhouse Gas Emissions and Groundwater Leachate Leakage Monitoring of Sanitary Landfill | IEEE | April 23, 2020 | 978-1-6654-1971-0 | 10.1109/HNICEM48295.2019.9072872 | | https://ieeexplore.ieee.org/document/9072872 | Yes (Verified) |
| 28 | **Renato Maaliw III (SLSU - CPE)** | Classification of Learning Styles in Virtual Learning Environment Using J48 Decision Tree | IADIS Press | 16-Jan-18 | 978-989-8533-68-5 | | | https://eric.ed.gov/?id=ED579490<br>https://files.eric.ed.gov/fulltext/ED579395.pdf | Yes (Verified) |

**Officially Published Researches of SLSU Engineering Faculty (Non - IEEE & Non IADIS)**

| No. | Faculty | Research | Publisher | Publication Date | Journal/Conference | ISSN/ISBN Number | Publication Link | Current Citations |
|---|---|---|---|---|---|---|---|---|
| 1 | **Renato R. Maaliw III (SLSU - CPE)** | Adaptive Virtual Learning Environment based on Learning Styles for Personalizing E-learning System: Design and Implementation | Blue Eyes Intelligence Engineering & | March 2020 | International Journal of Recent Technology & Engineering | ISSN: 2277-3878, Volume 8, Issue 6 | tps://eric.ed.gov/?id=ED6109- | 29 |
| 2 | **Renato R. Maaliw III (SLSU - CPE)**<br>Melvin A. Ballera (TIP)<br>Shaneth C. Ambat (FEU Tech)<br>Mechita F. Dumlao (PWU) | Comparative Analysis of Data Mining Techniques for Classification of Student's Learning Styles | Universal Researchers Association | September 2017 | MANILA - ICASET 17 | ISBN: 978-93-86878-01-4 | ae.org/siteadmin/upload/AE0 | 4 |
| 3 | **Renato R. Maaliw III (SLSU - CPE)** | Classification of Learning Styles in Virtual Learning Environment using Data Mining: A Basis for Adaptive Course Design | Blue Eyes Intelligence Engineering & Sciences Publication | July 2016 | International Research Journal of Engineering and Technology | ISSN: 2395 -0056, Volume 03, Issue 7 | https://bit.ly/36paSDi | 12 |
| 4 | **Renato R. Maaliw III (SLSU - CPE)** | Web and Mobile Enabled IT Asset Management System for Distributed Enterprises | Blue Eyes Intelligence | Arpil 2017 | International Journal of Advanced Research in | ISSN: 2277 128X, , Volume 7, Issue 7 | https://bit.ly/3taJHVT | 0 |

**Research Presentations (International)**

| No. | Faculty | Research | ch Conference/Ho | Awards |
|---|---|---|---|---|
| 1 | **Renato R. Maaliw III (SLSU - CPE)**<br>**Julie Ann B. Susa (SLSU - CPE)**<br>Alvin S. Alon (Batangas State)<br>Ace C. Lagman (FEU Tech)<br>Shaneth C. Ambat (FEU Tech)<br>Manuel B. Garcia (FEU Tech)<br>Ma. Corazon Fernando - Raguro (FEU Tech) | A Deep Learning Approach for Automatic Scoliosis Cobb Angle Identification | IEEE AIIoT 2022<br><br>Seattle, Washington, USA and Virtual<br>(Host: University of Washington)<br>(June 6 to 9, 2022) | Best Paper on Artificial Intelligence and Machine Learning Track |
| 2 | **Renato R. Maaliw III (SLSU - CPE)**<br>**Karen Anne C. Quing (SLSU - BAPsych)**<br>**Julie Ann B. Susa (SLSU - CPE)**<br>**Jed Frank S. Marqueses (SLSU - BSMath)**<br>Ace C. Lagman (FEU Tech)<br>Rossana T. Adao (FEU Tech)<br>Ma. Corazon Fernando - Raguro (FEU Tech)<br>Ranie B. Canlas (DHVSU) | Clustering and Classification Models For Student's Grit Detection in E-Learning | IEEE AIIoT 2022<br><br>Seattle, Washington, USA and Virtual<br>(Host: University of Washington)<br>(June 6 to 9, 2022) | |
| 3 | **Laily Mariz A. Bengua (SLSU - EE)**<br>**Vanessa Jane D. De Guzman (SLSU - EE)**<br>**Danica Mae S. Macunat (SLSU - EE)**<br>**Efren D. Villaverde (SLSU - EE)**<br>**Aubee T. Mahusay (SlSU - EE)**<br>**Renato R. Maaliw III (SLSU - CPE)** | Salted Egg Cleaning and Grading System Using Machine Vision | IEEE AIIoT 2022<br><br>Seattle, Washington, USA & Virtual<br>(Host: University of Washington)<br>(June 6 to 9, 2022) | |
| 4 | **Zoren P. Mabunga (SLSU - ECE)**<br>Jennifer De la Cruz (MAPUA) | An Optimized Soil Moisture Prediction Model for Smart Agriculture Using Gaussian Process Regression | IEEE CSPA 2022<br><br>Selangor, Malaysa and Virtual<br>(May 12, 2022) | |
| 5 | **Julie Ann B. Susa (SLSU - CPE)**<br>**Renato R. Maaliw III (SLSU - CPE)**<br>**Carla May C. Ceribo (SLSU - CPE)**<br>Jonel Macalisang (TUP)<br>Bernard C. Fabro (EARIST) | An Efficient Safety and Authorized Helmet Detection using Deep Learning Approach | IEEE SIST 2022<br><br>Nur-Sultan, Kazakhstan & Virtual<br>(Host: Astana IT University)<br>(April 28 - 30, 2022) | |
| 6 | **Julie Ann B. Susa (SLSU - CPE)**<br>**Wendy C. Nombrefia (SLSU - Infanta)**<br>**Alfredo S. Abustan Jr. (SLSU - Infanta)**<br>**Renato R. Maaliw III (SLSU - CPE)**<br>Jonel Macalisang (TUP) | Deep Learning Technique Detection for Cotton and Leaf Classification using YOLO Algorithm | IEEE SIST 2022<br><br>Nur-Sultan, Kazakhstan & Virtual<br>(Host: Astana IT University)<br>(April 28 - 30, | |

| 7 | **Renato Maaliw III (SLSU - CPE)**<br>**Karen Anne C. Quing (SLSU - BAPsych)**<br>Ace C. Lagaman (FEU Tech)<br>Melvin A. Ballera (TIP)<br>Bernard H. Ugalde (UTAS - Oman)<br>Michael Anthony D. Ligayo (QCU) | Employability Prediction of Engineering Graduates Using Ensemble Classification Modeling | IEEE CCWC 2022<br><br>Las Vegas, Nevada, USA and Virtual<br>(Host: University of Nevada, Las Vegas) | |

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| 8 | **Aubee T. Mahusay (SLSU - EE)** | Electricity Consumption Prediction Model for Southern Luzon State University-Main Campus Using Artificial Neural Network | IEEE CCWC 2022<br><br>Las Vegas, Nevada, USA and Virtual<br>(Host: University of Nevada, Las Vegas)<br>(January 26 to 29, 2022) | |
| 9 | **Renato Maaliw III (SLSU - CPE)** | A Personalized Virtual Learning Environment Using Multiple Modeling Techniques | IEEE IEMCON 2021<br><br>New York, USA and Virtual | Best Paper on Big Data Analytics Track |
| 10 | **Renato Maaliw III (SLSU - CPE)**<br>Melvin Ballera (TIP)<br>**Zoren Mabunga (SLSU - ECE)**<br>**Aubee Mahusay (SLSU - EE)**<br>**Dhenalyn Dejelo (SLSU - BS Nursing)**<br>**Mariebeth Seño (SLSU - BSMath)** | An Ensemble Machine Learning Approach for Time Series Forecasting of COVID-19 Cases | IEEE IEMCON 2021<br><br>Vancouver, Canada and Virtual | Best Paper on Data Analytics & Big Data Track |
| 11 | **Maurine Panergo (SLSU - ECE)**<br>Febus Reidj Cruz (MAPUA)<br>**Renato Maaliw III (SLSU - CPE)** | A Circuit Design of a Sensor Amplifier for Improving Blood Pressure Measurement in Telehealth System | IEEE IEMCON 2021<br><br>Vancouver, Canada and Virtual<br>(Host: University of British Columbia)<br>(October 27 to 30, 2021) | |
| 12 | **Renato Maaliw III (SLSU - CPE)**<br>**Zoren Mabunga (SLSU - ECE)**<br>**Frederick Villa (SLSU - ELT)** | Time-Series Forecasting of COVID-19 Cases Using Stacked Long Short-Term Memory Networks | IEEE 3ICT 2021<br>Zallaq, Bahrain and Virtual<br>(Host: University of Bahrain)<br>(September 29 - 30, 2021) | Best Paper on Role of Modern Technologies in Combating COVID-19 track |
| 13 | Angelica Samortin (MAPUA)<br>Jennifer Dela Cruz (MAPUA)<br>**Zoren Mabunga (SLSU - ECE)** | The Optimization of a 5G Inset-fed Patch Antenna Using the Machine Learning Algorithm Surrogate Model Assisted Differential Evolution for Antenna Synthesis | IEEE CCET 2021<br>Beijing, China<br>(August 13 - 15, 2021) | |
| 14 | **Zoren Mabunga (SLSU - ECE)**<br>Jennifer C. dela Cruz (MAPUA)<br>Angelica Samortin (MAPUA)<br>**Renato Maaliw III (SLSU)** | Utilization of Different Wireless Technologies' RSSI for Indoor Environment Classification Using Support Vector Machine | IEEE ICSGRC 2021<br>Shah Alam, Malaysia (August 7, 2021) | |
| 15 | **Renato Maaliw III (SLSU - CPE)** | Early Prediction of Electronics Engineering Licensure Examination Performance using Random Forest | IEEE World AI & IOT 2021<br><br>Seattle, Washington, USA and Virtual<br>(Host: University of Washington) | Best Paper on Big Data, Data Management & Analytics Track |
| 16 | Angelica Samortin (MAPUA)<br>Jennifer C. Dela Cruz (MAPUA)<br>Ramon Garcia (FEU Tech)<br>**Zoren Mabunga (SLSU - ECE)** | The Analysis of Staphylococcus aureus Bacteria after Exposure to Electromagnetic Radiation via Support Vector Machine | 2020 IEEE HNICEM<br><br>Manila, Philippines<br>(December 3 - 7, 2020) | |
| 17 | **Zoren Mabunga (SLSU - ECE)**<br>Jennifer C. dela Cruz (MAPUA)<br>Glenn Magwili (MAPUA)<br>Angelica Samortin (MAPUA) | Development of Sanitary Landfill's Groundwater Contamination Detection Model Based on Machine Learning Algorithms | 2020 IEEE HNICEM<br><br>Manila, Philippines<br>(December 3 - 7, 2020) | |

| No. | Faculty | Research | Conference | Date | Location | Awards |
|---|---|---|---|---|---|---|
| 18 | Angelica Samortin (MAPUA)<br>Jennifer C. Dela Cruz (MAPUA)<br>Ramon Garcia (FEU Tech)<br>**Zoren Mabunga (SLSU - ECE)** | The Effect of Various Ultra High Frequency Radiation on the Evolution of the Staphylococcus aureus | 2020 IEEE HNICEM<br><br>Manila, Philippines (December 3 - 7, 2020) | | | |
| 19 | **Zoren Mabunga (SLSU - ECE)**<br>Jennifer C. dela Cruz (MAPUA)<br>Glenn Magwili (MAPUA)<br>Angelica Samortin (MAPUA) | Development of Sanitary Landfill's Carbon Dioxide Concentration Models Using Machine Learning Algorithms | 2020 IEEE HNICEM<br><br>Manila, Philippines (December 3 - 7, 2020) | | | |
| 20 | **Zoren Mabunga (SLSU - ECE)**<br>Glenn Magwili (MAPUA) | Greenhouse Gas Emissions and Groundwater Leachate Leakage Monitoring of Sanitary Landfill | 2019 IEEE HNICEM<br><br>Laoag, Philippines (Nov. 29 to Dec. 1, 2019) | | | |
| 21 | **Renato Maaliw III (SLSU - CPE)** | Classification of Learning Styles in Virtual Learning Environment Using J48 Decision Tree | IADIS CELDA 2017<br><br>Vilamoura, Algarve, Portugal (October 18 to 20, 2017) | | | |
| 22 | **Renato Maaliw III (SLSU - CPE)** | Comparative Analysis of Data Mining Techniques for Classification of Student's Learning Styles | MANILA - ICASET 17<br>Hotel Benilde Maison De La Salle, Malate, Manila | | | |

**Research Presentations (National/Regional)**

| No. | Faculty | Research | Conference | Date | Location | Awards |
|---|---|---|---|---|---|---|
| 1 | **Renato R. Maaliw III (SLSU - CPE)** | Classification of Learning Styles in Virtual Learning Environment Using Educational Data Mining | Integrative Research Summit 2019 | December 4 to 6, 2019 | City Garden Suites, Ermita, Manila | Best Conference Paper |
| 2 | **Renato R. Maaliw III (SLSU - CPE)** | Adaptive Virtual Learning Environment for Different Learning Styles | 2017 Research Conference on Information Technology Management, | July 6 to 7, 2017 | AMA University, Project 8, Quezon City | |
| 3 | **Renato R. Maaliw III (SLSU - CPE)** | Classification of Learning Styles in Virtual Learning Environment using Data Mining | 2016 Research Conference on Information Technology Management | June 30 to July 1, 2016 | AMA University, Project 8, Quezon City | |