

A Facebook video player interface. At the top left is the Facebook logo. The video frame shows a portrait of Renato R. Maaliw, III, a man in a dark suit and tie, standing against a blue and white geometric background. In the top left corner of the video frame is the Southern Luzon State University seal. In the top right corner is the logo for the SLSU Office of Research Services. The video title reads "Renato R. Maaliw, III 2021 Outstanding SLSU Researcher". Below the video frame are standard video control buttons: play, volume, and progress bar.

Renato R. Maaliw, III  
2021 Outstanding SLSU Researcher

A Facebook post from "Southern Luzon State University-MIS ICT". The post is titled "SLSU PRAISE 2022" and includes the text "SLSU PRAISE 2022... See more". It has 52 likes, 18 comments, and 1.4K views. The post is live and was posted on December 16, 2022. Below the post is a comment section with two visible comments:

Eraldwin Dimailig · 30:33 · Watching via online...  
Arvin Natividad · 31:36 · Watching also via FB Live

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SLSU PRAISE 2022 Recorded live  
Southern Luzon State University-MIS ICT



Republic of the Philippines  
**SOUTHERN LUZON STATE UNIVERSITY**  
Lucban, Quezon



...

## Finalists

### 2021 Outstanding SLSU Researcher

**Amalia E. Almazol**

**Wilfredo B. Barrera, Jr.**

**Gino A. Cabrera, Jr.**

**Ronald C. Garcia**

**Renato R. Maaliw, III**

**Zoren P. Mabunga**

**Leomar C. Miano**

▶ 3:16:43 / 3:18:37



— ⚙ CC ⌂ ⌂ 🔍

Republic of the Philippines  
Southern Luzon State University



# 2021 Outstanding SLSU Researcher

is awarded to

## Renato R. Maaliw, III

for his commendable passion, dedication, and commitment to research and for the significant impact of his works in the attainment of the University's RDE goals; thereby, contributing immeasurably in strengthening the research culture in SLSU.

Given on the 16th day of December 2022, during the PRAISE Gawad Parangal  
at Southern Luzon State University, Lucban, Quezon.

A handwritten signature in black ink, appearing to read "Doracie B. Zoleta-Nantes".

**DORACIE B. ZOLETA-NANTES, PhD**  
University President



# Office of Research Services

## ORS Memo No. 21, Series of 2022

**TO** : All SLSU Faculty Members and Employees (Permanent, Contract of Service Instructors, and Job Order)

**THRU:** College Deans and Research Coordinators

**FROM** *M. Guinto*  
: NICANOR L. GUINTO, Ph.D.

: Director, Office of Research Services

**NOTED** *M. Esperal*  
: MARISSA C. ESPERAL, Ph.D.  
: Vice President for Research, Extension, Production, Development, and Innovation

**SUBJECT** : Call for Nominations for the 2021 Outstanding SLSU Researcher

**DATE** : November 23, 2022

- 
1. In line with the upcoming PRAISE Ceremony, the ORS hereby announces the **Call for Nominations for the 2021 Outstanding SLSU Researcher**. This recognition puts emphasis on the fact that besides instruction, the University is also mandated to conduct research as one of its trifocal functions. Thus, it is imperative that those who showed exemplary performance in the field of research be recognized as well.
  2. The Outstanding Researcher Award shall be based on **the research outputs during the preceding year in which the call for nominations was made**. It will be awarded annually to deserving SLSU researcher, either a faculty or an employee, regardless of employment status.
  3. Anyone may submit a nomination in writing via email to [research@slsu.edu.ph](mailto:research@slsu.edu.ph). The email should have the subject: Nomination for 2021 Outstanding SLSU Researcher.
  4. The last day of nominations will be on **November 28, 2022 (Monday), at 5:00 PM**. Kindly refer to the attached documents for the nomination procedure.
  5. After the nomination period, the ORS will contact the nominees and request to submit research-related credentials that cover **FY 2021 (January – December 2021)**. Only the nominees who were able to submit documents until **December 2, 2022 (Friday), 5:00 PM**, shall be included in the shortlisting.
  6. Should you have any questions or concerns, please do not hesitate to contact us.
  7. For your information and guidance. Widest dissemination is hereby advised.



# SOUTHERN LUZON STATE UNIVERSITY

## Office of Research Services

### GUIDELINES FOR THE CALL FOR NOMINATIONS FOR 2021 OUTSTANDING SLSU RESEARCHER

The 2021 Outstanding SLSU Researcher Award shall be based on the research outputs during the preceding year in which the call for nominations was made. It will be awarded annually to deserving SLSU researchers, either a faculty or employee, regardless of employment status.

#### Nomination Procedure:

1. The ORS will release a Call for Nominations for Outstanding SLSU Researcher for 2021. Anyone may submit a nomination in writing via email to [research@slsu.edu.ph](mailto:research@slsu.edu.ph), copy furnish [slsuresearchoffice@gmail.com](mailto:slsuresearchoffice@gmail.com). The email should have the subject: Nomination for 2021 Outstanding SLSU Researcher. The nominator should include the following details in the email:
  - a. Name, affiliation, and academic rank/ designation of the researcher being nominated
  - b. Reason/s why s/he is being nominated
  - c. Contact information of the person being nominated (email & mobile number)
2. SLSU faculty/employee researchers may be nominated and may self-nominate, regardless of employment status, as long as they will meet both of these conditions: **a)** the nominee is currently affiliated with the University; and, **b)** the nominee is affiliated with SLSU during the preceding year in which the call for nominations was made.
3. The last day of nomination will be on **November 28, 2022 (Monday), 5:00 PM.**
4. After the nomination period, the ORS will contact the nominees and request to submit research-related credentials that **covers FY 2021 (January – December 2021).**
  - Curriculum Vitae covering research-related accomplishments in 2021
  - Documentary evidences (actual papers published, certificate of presentation, certificate of Best Paper Award, MOA of funded research, etc.)

Only the nominees who were able to submit documents until **December 2, 2022 (Friday), 5:00 PM,** shall be included in the shortlisting.

5. The invited external experts shall do a paper review of the submitted documents of the researchers. They will use the criteria devised by the ORS during their evaluation.

The top 5 nominees that will emerge from the shortlisting shall be considered finalists and will be awarded Certificate of Recognition during the PRAISE Awarding Ceremony. The Outstanding SLSU Researcher for 2021 among the finalists shall receive **PHP 10,000 cash award.**

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Outstanding Research Award 2021

X Until December 31

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Congratulations! You are nominated as 2021 Outstanding SLSU Researcher

SLSU Research Office <research@slsu.edu.ph> to me Fri, Nov 25, 2022, 2:00 PM

Dear Dr. Maaliw.

As early as now, we would like to congratulate you as we received several communications nominating you as the 2021 Outstanding SLSU Researcher!

For our office to facilitate the review of your research-related credentials that cover FY 2021 (January – December 2021), we hereby request that you fill out the CV template attached below and provide the necessary attachments (e.g. actual papers published, certificate of presentation, certificate of Best Paper Award, MOA of funded research, proof of memberships, etc.).

Only the nominees who were able to submit documents until December 2, 2022 (Friday), 5:00 PM, shall be included in the shortlisting.

Please feel free to reach us for queries and concerns.

Respectfully,

  
April Arianne A. de Leon  
Education Program Specialist I, SLSU ORS

SLSU Office of Research Services (O&RS)  
Queen Avenue, Luban, Quezon, PH 4128  
audeleon@slsu.edu.ph | ms.apriledleon@gmail.com  
(042) 540-8700

Visit our website: [www.slusuresearch.info](http://www.slusuresearch.info)  
Follow us on Facebook: <https://www.facebook.com/slusuors>

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W CV\_2021-SLSU-O...

Thank you so much for the great news! Thank you for the great news! Thank you for the information.

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Outstanding Research Award 2021

Until December 31



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Acceptance Notifications

Book Chapter Publications

Certificates

Citations

Huawei



SLSU Research Office &lt;research@slsu.edu.ph&gt;

to me ▾

Wed, Feb 8, 9:49 AM



Dear Dr. Maaliw,

We would like to request a brief message/response from you in relation to the Outstanding Researcher award that you received in December last year. We plan to include it in the ORS Annual Report to serve as an inspiration to other SLSU researchers.

We understand that this is a busy week for you so we are willing to wait for your message until Monday (February 8).

Thank you very much!

Respectfully,

*April Arianne A. de Leon*

Education Program Specialist I, SLSU ORS

 SLSU Office of Research Services (O&S)  
Quirino Avenue, Lucban, Quezon, PH 4132  
sosl@slsu.edu.ph | ms.apriledeleon@gmail.com  
(042) 546-0000

Visit our website: [www.slssuresearch.info](http://www.slssuresearch.info)

Follow us on Facebook: <https://www.facebook.com/slssuors>



Renato Racelis Maaliw III

Acknowledged.

Wed, Feb 8, 11:38 AM



SLSU Research Office &lt;research@slsu.edu.ph&gt;

to me ▾

Thu, Feb 16, 8:15 AM



Dear Dr. Maaliw,

Greetings!

I am circling back to my previous email requesting for a brief message/response from you as the recipient of the 2021 Outstanding SLSU Researcher Award. Would it be possible for us to get it by tomorrow?

Thank you very much once again.

Respectfully,  
April

\*\*\*



Renato Racelis Maaliw III &lt;rmaaliw@slsu.edu.ph&gt;

to SLSU ▾

Thu, Feb 16, 10:05 AM



Opo, sensya na po. Busy lately..hehehe

\*\*\*

--  
**Dr. Renato Racelis Maaliw III**

*Associate Professor II*

*Southern Luzon State University - Philippines*

[rmaaliw@slsu.edu.ph](mailto:rmaaliw@slsu.edu.ph)



Renato Racelis Maaliw III &lt;rmaaliw@slsu.edu.ph&gt;

to SLSU ▾

Fri, Feb 17, 10:50 AM



I am honored and grateful to receive the SLSU's 2021 research of the year award.

To be recognized among the many talented and dedicated university researchers is a dream come true.

This award is not only a personal achievement but a reflection of the hard work and collaboration of colleagues, mentors, and the institution's support to which I belong.

As researchers, we strive to contribute to the advancement of knowledge and positively impact society.

May this award inspire the continuous pursuit of knowledge generation with even greater enthusiasm and passion.

Again, I extend my sincere gratitude to the selection committee, colleagues, and family for their encouragement and support.

I look forward to advancing science's frontiers with collaborations and creating a better world through research.

\*\*\*



SLSU Research Office &lt;research@slsu.edu.ph&gt;

to me ▾

Fri, Feb 17, 11:48 AM



Thank you very much! 😊

\*\*\*

# Southern Luzon State University

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## History

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From Wikipedia, the free encyclopedia

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**Southern Luzon State University (SLSU; Filipino: Pamantasang Pampamahalaan ng Timog Luzon<sup>[5]</sup>)**, formerly known as Southern Luzon Polytechnic College (SLPC), is the premier, state-funded higher education institution in Quezon Province in the Philippines operating by virtue of Republic Act 9395.<sup>[6]</sup> It is composed of 11 campuses in the province of Quezon, with the main campus situated in the Municipality of Lucban.

SLSU is mandated to provide advanced education, professional, technological instruction in the fields of allied medicine, education, engineering, agriculture, fisheries, forestry, environment, arts and sciences, accountancy, cooperative, business and entrepreneurship, technology and other relevant fields of study in the Province of Quezon and in Region IV-A CALABARZON. It is also mandated to undertake research and extension services and provide progressive leadership in its areas of specialization.<sup>[7]</sup> By virtue of Republic Act 10931 or the Universal Access to Quality Tertiary Education Act signed by President Rodrigo Duterte, SLSU will no longer be collecting tuition fees from its local, first degree undergraduate students.<sup>[8]</sup>

## History [edit]

Southern Luzon State University (SLSU) started as Lucban Municipal Junior High School by virtue of Municipal Resolution No. 5 passed in April 1964. Through the initiative of its founding president, Dr. Angelo Peña, a letter signed by 257 petitioners seeking the establishment of a Municipal Junior High School was favorably received and recommended by the Municipal Council and then Mayor Hobart Dator. The permit to operate was bestowed by Assistant Secretary of Education, Hon. Miguel Gaffud in July 1964. Since then, the Municipal Council allocated funds for its operations. Due to its expanding student population, Municipal Resolution No. 18 series of 1966 effectively expropriated about 4.9 ha of land in Barrio Kulapi - a site which the Council initially allocated for the establishment of a public market - in favor of the Municipal High School.<sup>[9]</sup> This would then become the present site of the main campus of the university.

In May 1965, Municipal Resolution No. 86 was passed requesting the change of name to Lucban Municipal High School to accommodate students into the third and fourth year levels. The Director of Public Schools at the time approved the resolution in August 1965. On June 14, 1968, the Lucban Community College was created and was made part of Lucban Municipal Junior School as an adjunct institution for its School of Education, despite resistance from then Municipal and Provincial Councils for the school to operate as a college. The Municipal and Provincial Councils deemed it to be outside their authority to enact a law that would ensure the continued operation of the Community College.<sup>[10]</sup>

The Lucban School for Philippine Craftsmen formally started in July 1970. By virtue of Republic Act 4345 also known as the merger law, the Lucban Municipal High School and Lucban School of Philippine Craftsmen became the Lucban National High School in July 1972 (with the continuous operation of Lucban Community College).

On August 30, 1977, President Ferdinand Marcos approved the conversion of the Lucban National High School and Lucban Community College into Lucban National College (LNC). This was in line with his administration's approach to countryside development by bringing Colleges and Universities to the provinces and rural areas. At the time, the LNC was the only government-run and funded College in the Southern Tagalog region.<sup>[11]</sup>

In 1981, 20 Assemblymen of the Southern Tagalog Region sponsored the Parliamentary Bill No. 173 for the conversion of Lucban National College into Southern Luzon Polytechnic College (SLPC). The bill was approved in December 1981 and was signed into law known as Batas Pambansa No. 145 by President Marcos.

Since then, SLPC grew to establish seven satellite campuses located in various parts of the province of Quezon. The first satellite campus was inaugurated in Alabat in July 1991. In 1991, SLPC-Polillo was created by virtue of Board Resolution No. 19, Series of 1992. In the following year, two additional campuses were established: SLPC-Sampaloc in Brgy. Caldong, Sampaloc, Quezon (BOT Res. No. 33, series of 1993) and SLPC-Infanta. In 1996, another campus, the SLPC-Lucena Dual Training and Livelihood Center, was established under Board Resolution No. 130, series of 1996. Judge Guillermo Eleazar Polytechnic College was integrated in February 2002 under Board Resolution No. 352, series of 2002.

## Judge Guillermo Eleazar Polytechnic College [edit]

**Judge Guillermo Eleazar Polytechnic College** was the former name of the college's satellite campus in Tagkawayan, Quezon. The satellite started as the Tagkawayan School of Fisheries under the Commission on Fisheries by virtue of Republic Act No. 4290 passed by the legislature on June 19, 1965.<sup>[12]</sup> After 12 years, the school name was changed to Judge Guillermo Eleazar Memorial School of Fisheries by Presidential Decree No. 1273 issued by then president Ferdinand E. Marcos on December 27, 1977.<sup>[13]</sup> Eventually, with the passage of Republic Act No. 8728, the school was converted into a state college known as Judge Guillermo Eleazar Polytechnic College.<sup>[14]</sup> On March 17, 2007, through Republic Act No. 9395, it became part of the Southern Luzon State University.<sup>[15]</sup>

## Awards and Recognitions [edit]

SLSU is the Commission on Higher Education (CHED) Center of Development in Teacher Education<sup>[16]</sup> and Forestry.<sup>[17][18]</sup> It is also an accredited "Dark Green School", which means that SLSU's instruction, research, and extension activities are geared towards environmental awareness and protection.

In 2018, the university is assessed as a Level III State University by the CHED, a level higher than in the 2007 evaluation.<sup>[19]</sup> Based on the CHED-Department of Budget and Management Joint Circular, a Level III SUC is "very good in undertaking the functions of a state university/college".<sup>[20]</sup> That is, instruction, research, and extension. In 2018, the AACUP recognized SLSU as a top ranking SUC in the Philippines in terms of number of degree programs accredited.<sup>[21]</sup>

Southern Luzon State University	
Pamatansang Pampamahalaan ng Timog Luzon	
Other names	SLSU
Former name	Southern Luzon Polytechnic College (1982-2007) Lucban National College (1972-1982) Lucban Community College (1968-1972) Lucban Municipal Junior High School (1965-1968) Lucban Municipal High School (1964-1965)
Motto	Aspire, Achieve, Serve
Type	State University
Established	August 4, 1964
Budget	Php 501,414,000 (2022) <sup>[1]</sup> Php 401,263,000 (2021) <sup>[2]</sup> Php 287,633,000 (2020) <sup>[3]</sup> Php 471,844,000 (2019) <sup>[4]</sup>
Chairperson	Marita R. Canapi, PhD
President	Doracie B. Zoleta-Nantes, Ph.D.
Vice-president	Gondelina Radovan, PhD (Academics) Frederick T. Villa, DIT (Admin. & Finance) Marissa Cadao-Espural, PhD (REPD)
Location	Brgy. Kulapi, Lucban, Quezon (Main Campus), Philippines
Campus	11 campuses (Lucban, Lucena, Tayabas, Taal, Tagkawayan, Polillo, Infanta, Alabat, Catanauan, Gumaca, Calauag)
Language	English, Filipino
Colors	 Green and White
Nickname	Green Rangers
Sporting affiliations	SCUAA, PASUC
Website	<a href="http://www.slsu.edu.ph">www.slsu.edu.ph</a>

## 2021 SLSU OUTSTANDING RESEARCHER NOMINEE

### CURRICULUM VITAE<sup>1</sup>

Period Covered: January–December 2021

#### Personal Information

Photo	Name:	Renato R. Maaliw III
	Academic Rank:	Associate Professor 2
	Department/ College/ Campus:	College of Engineering
	Area/s of specialization & Research Interests	Big Data, Data Mining, Machine Learning, Computer Vision, Analytics

#### Educational Background

Degree	Degree Name	University	Year Completed
Doctorate/ Postdoctorate	Doctor in Information Technology	AMA University	2016
Master's	Master in Information Technology	Manuel S. Enverga University	2010
Bachelor's	Bachelors of Science in Computer Engineering	AMA University	2005

---

<sup>1</sup> Note: Please delete the parts where you do not have any entry.

## Research Projects & Grants Received

Indicate ongoing research projects you were involved with the period covered. Add more rows if needed.

Title	Collaborators (indicate in <b>bold</b> your name)	Fund Source (Personal, SLSU, External – if external, indicate funding agency)	Funding Amount (for Institutionally- & Externally-funded research projects only)	Project Duration (mm/yyyy – mm/yyyy)
Self-Health Assessment for Pregnant Women Mobile Application	Kirstina N. Manalo, Evangeline Mecija, Mirasol Manlapaz, <b>Renato R. Maaliw III</b>	SLSU	197,000	10/2022 – 04/2024
Establishment of GeoSpatial and Data Analytics Laboratory	<b>Renato R. Maaliw III</b> , Arvin N. Natividad, Jed Franklin S. Marqueses	CHED-IDIG Grant	5.4M	12/2021 – 12/2024
Multi-Active Multi-Datacenter Distributed Database Architecture Design Based on Secondary Development Zookeeper	Zhen Guan Yang, Leonard L. Alejandro, Charlene I. Vergara, <b>Renato R. Maaliw III</b> , Alvin S. Alon, Ryan S. Evangelista, Reden Paul L. Rivera & Ronnel C. Delos Santos	Personal (For Publication)	N/A	01/2021 – 11/2021
Sociodemographic Profile as Moderators in the Technology Acceptance of Productivity Applications	Manuel B. Garcia, Geliza Marie I. Alcober, <b>Renato R. Maaliw III</b> , Brandon G. Sibbaluca, Jayson A. Dela Fuente & Anna Liza A. Ramos	Personal (For Publication)	N/A	05/2021 – 11/2021

Virtual Dietitian as a Precision Nutrition Application for Gym and Fitness Enthusiasts: A Quality Improvement Initiative	Manuel B. Garcia, Teodoro F. Revano Jr. Pocholo James M. Loresco, <b>Renato R. Maaliw III</b> , Ryan Michael F. Oducado, Kadir Uludag	Personal (For Publication)	N/A	02/2021 – 10/2021
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## Research Publications

Add more rows if needed

Title	Author/s (indicate in <b>bold</b> your name)	Publication (e.g., name of Journal or Book)	Type (Journal, Edited Volume, Monograph, Conference Proceeding, etc.)	URL (if any)
A Personalized Virtual Learning Environment Using Multiple Modeling Techniques	<b>Renato R. Maaliw III</b>	IEEE Xplore	Conference Paper (Verified Scopus-Indexed and Web of Science)	<a href="https://ieeexplore.ieee.org/document/9666645">https://ieeexplore.ieee.org/document/9666645</a>
A Circuit Design of a Sensor Amplifier for Improving Blood Pressure Measurement in Telehealth System	Maurine C. Panergo, Febus Reidj G. Cruz & <b>Renato R. Maaliw III</b> ,	IEEE Xplore	Conference Paper (Verified Scopus-Indexed and Web of Science)	<a href="https://ieeexplore.ieee.org/document/9623070">https://ieeexplore.ieee.org/document/9623070</a>
An Ensemble Machine Learning Approach For Time Series Forecasting of COVID-19 Cases	<b>Renato R. Maaliw III</b> , Melvin A. Ballera, Zoren P. Mabunga, Aubee T. Mahusay, Dhenalyn A. Dejelo, Mariebet P. Seño	IEEE Xplore	Conference Paper (Verified Scopus-Indexed and Web of Science)	<a href="https://ieeexplore.ieee.org/document/9623074">https://ieeexplore.ieee.org/document/9623074</a>
Time-Series Forecasting of COVID-19 Cases Using Stacked Long Short-Term Memory Networks	<b>Renato R. Maaliw III</b> , Zoren P. Mabunga & Frederic T. Villa	IEEE Xplore	Conference Paper (Verified Scopus-Indexed and Web of Science)	<a href="https://ieeexplore.ieee.org/document/9581688">https://ieeexplore.ieee.org/document/9581688</a>

Utilization of Different Wireless Technologies' RSSI for Indoor Environment Classification Using Support Vector Machine	Zoren P. Mabunga, Jennifer C. Dela Cruz, Angelica C. Samortin & <b>Renato R. Maaliw III</b>	IEEE Xplore	Conference Paper (Verified Scopus-Indexe and Web of Science)	<a href="https://ieeexplore.ieee.org/document/9515242">https://ieeexplore.ieee.org/document/9515242</a>
Early Prediction of Electronics Engineering Licensure Examination Performance using Random Forest	<b>Renato R. Maaliw III</b>	IEEE Xplore	Conference Paper (Verified Scopus-Indexe and Web of Science)	<a href="https://ieeexplore.ieee.org/document/9454213">https://ieeexplore.ieee.org/document/9454213</a>

## Research Citations

Add more rows if needed

Title of Paper	Year Published	Publication (e.g., name of Journal or Book)	Type (Journal, Edited Volume, Monograph, Conference Proceeding, etc.)	Number of Citations (as of December 2021)
An Ensemble Machine Learning Approach For Time Series Forecasting of COVID-19 Cases	2021	IEEE Xplore	Conference Paper (Scopus-Indexed)	2
Time-Series Forecasting of COVID-19 Cases Using Stacked Long Short-Term Memory Networks	2021	IEEE Xplore	Conference Paper (Scopus-Indexed)	2
Early Prediction of Electronics Engineering Licensure Examination Performance using Random Forest	2021	IEEE Xplore	Conference Paper (Scopus-Indexed)	2

Adaptive Virtual Learning Environment based on Learning Styles for Personalizing E-learning System: Design and Implementation	2020	International Journal of Recent Technology and Engineering (IJRTE)	Journal (Scopus-Indexed)	21
Classification of Learning Styles in Virtual Learning Environment Using J48 Decision Tree.	2017	International Association for Development of the Information Society	Conference Paper (Scopus-Indexed)	21
Comparative Analysis of Data Mining Techniques for Classification of Student's Learning Styles	2017	URUAE	Conference Paper	3
Classification of learning styles in virtual learning environment using data mining: A basis for adaptive course design	2016	International Research Journal of Engineering and Technology (IRJET)	Journal	11

## Service as Peer-reviewer

Indicate the journals or publishers that invited you as peer-reviewer. Attach invitation & peer review report as evidence. Note that your review result will not be disclosed to anyone except among external evaluators who will be asked to sign a non-disclosure agreement, and the Office of Research Services. Add more rows if needed.

Name of Publication/ Journal	Publisher	URL of Publisher (if any)	Tentative Title of Peer-reviewed Article
2021 IEEE International Conference on Innovation and Intelligence for Informatics, Computing, and Technologies (3ICT)	IEEE	<a href="https://ieeexplore.ieee.org/xpl/conhome/1830644/all-proceedings">https://ieeexplore.ieee.org/xpl/conhome/1830644/all-proceedings</a>	Impact of Covid-19 Wastes on Environmental Pollution
			Automated Detection and Control System Using Computer Vision based Video Analytics: Case COVID-19
			Forecasting Demand Using ARIMA Model and LSTM Neural Network: a Case of Detergent Manufacturing Industry
2021 IEEE 12th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)	IEEE	<a href="https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&amp;queryText=2021%20IEMCON">https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&amp;queryText=2021%20IEMCON</a>	Development of a Hybrid Power Generation System
			CMOS Transistor-Based Memristor Emulator Circuit Design for High Frequency Applications
			CNN Based COVID-19 Prediction From Chest X-Ray Images
			Design and Implementation of a Microstrip Patch Antenna for the Detection of Cancers and Tumors in Skeletal Muscle of the

			Human Body Using ISM Band
			Key Space Reduction Using Isomorphs
			Blood Cancer Recognition Based on Discriminant Gene Expressions: A Comparative Analysis of Optimized Machine Learning Algorithms
			A Stackelberg Based Leadership Algorithm for RAT Selection in Heterogeneous Networks
2021 IEEE 12th Annual Information Technology, Electronics and Mobile Communication Conference (IEMCON)	IEEE	<a href="https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&amp;queryText=2021%20IEMCON">https://ieeexplore.ieee.org/search/searchresult.jsp?newsearch=true&amp;queryText=2021%20IEMCON</a>	Design and Implementation of a Digital Radar Pulse Receiver on FPGA
			Security for Internet OF Things-IOT
			Multiclass Dates Classification Model Using Deep Learning
			Register File Design Using VHDL
			Reliability of Mobile Edge Computing With Optical Wireless Relays
			Public Sector Digital Transformation: Challenges for Information Technology Leaders

<p><u>2021 IEEE Sustainable Leadership and Academic Excellence International Conference (S LAE)</u></p>	<p>IEEE</p>	<p><a href="https://ieeexplore.ieee.org/xpl/conhome/1845307/all-proceedings">https://ieeexplore.ieee.org/xpl/conhome/1845307/all-proceedings</a></p>	<p>Using Illustrative Finite Element Software (Flux3D) for Assimilation of the Conceptual Contents of Physical Engineering Phenomena Innovative Strategies for University Students During COVID-19 Pandemic On-Line Design Studio: Strategies for Enhancing Motivation and Progress</p>
<p><u>IEEE 12th Annual Ubiquitous Computing, Electronics &amp; Mobile Communication Conference (UEMCON)</u></p>	<p>IEEE</p>	<p><a href="https://ieeexplore.ieee.org/xpl/conhome/1816465/all-proceedings">https://ieeexplore.ieee.org/xpl/conhome/1816465/all-proceedings</a></p>	<p>Using CNN and TensorFlow to Recognise "Signal for Help" Hand Gestures Staircase Detection Image Processing Technique in Robot Hybrid Mapping Analysis of Reinforcement Learning in Autonomous Vehicles IoT in Health Care Industry: A Promising Prospect Neural Network Generative Models for Radio Frequency Data Bengali Handwritten Digit Recognition With Explainable AI Method Efficient Energy Based Dynamic Task Offloading Scheme for Blockchain-Enabled Virtual Wireless Networks</p>

IEEE 12th Annual Ubiquitous Computing, Electronics & Mobile Communication Conference (UEMCON)	IEEE	<a href="https://ieeexplore.ieee.org/xpl/conhome/1816465/all-proceedings">https://ieeexplore.ieee.org/xpl/conhome/1816465/all-proceedings</a>	A Hybrid 5G/PON - Based E-Health Communication Infrastructure
			Development A Web Application for Lawyer and Client Virtual Communication
			An EEG-Based Custom Training Software Solution for Monitoring Audio Training Learning Outcomes
			Low-Cost Open Source IoT-Based SCADA System Using ESP32 and Arduino IoT Cloud

### Service as a Member of Editorial Board

Indicate the journals or publishers that invited you to serve as a member of their Editorial Board. Attach proof of membership as evidence. Add more rows if needed.

Role in the Editorial Board	Name of Publication/Journal	Publisher	URL of Publisher (if any)
Associate Reviewer	Journal of Information Technology Education: Research (JITE: Research) (Scopus-Indexed Journal)	Informing Science Institute	<a href="https://www.informingscience.org/Journals/JITEResearch/BoardMembers">https://www.informingscience.org/Journals/JITEResearch/BoardMembers</a>
Editorial Board	International Journal of Science, Technology, Engineering & Mathematics	IIARI	<a href="https://iiari.org/journals/ijstem/editorial-board/">https://iiari.org/journals/ijstem/editorial-board/</a>

## Membership in Learned Societies or Research Organizations

*Enumerate your memberships in learned societies or research organizations. If applicable, kindly indicate your type of membership (e.g. Regular Member, Associate Member, Officer, etc.). Add more rows if needed.*

Name of Organization	Membership Type (if applicable)
Institute of Electrical and Electronics Engineers	Member
IEEE – Control Systems Society	Member
IEEE – Young Professionals	Member
IEEE Council on Electronic Design Automation	Member
IEEE Nanotechnology Council	Member
National Research Council of the Philippines (NRCP)	Qualified for Associate Member (Pending Official Results)

## Research Presentations

Add more rows if needed

Title	Presenter/s (indicate in <b>bold</b> your name & role – e.g., presenter, keynote, plenary speaker)	Conference	Organizer	Venue & Date
A Personalized Virtual Learning Environment Using Multiple Modeling Techniques	<b>Renato R. Maaliw III</b> (Presenter)	IEEE 2021 UEMCON	IEEE – Region 1 (USA), SMART Society, IEM, UEM	New York City, New York and Virtual
An Ensemble Machine Learning Approach For Time Series Forecasting of COVID-19 Cases	<b>Renato R. Maaliw III</b> (Presenter)	IEEE 2021 IEMCON	IEEE – Region 1 (Canada), SMART Society, IEM, UEM	Vancouver, Canada & Virtual
Time-Series Forecasting of COVID-19 Cases Using Stacked Long Short-Term Memory Networks	<b>Renato R. Maaliw III</b> (Presenter)	IEEE 2021 3ICT	IEEE – Bahrain Section, University of Bahrain	Zallaq, Bahrain & Virtual
Early Prediction of Electronics Engineering Licensure Examination Performance using Random Forest	<b>Renato R. Maaliw III</b> (Presenter)	IEEE 2021 3ICT	IEEE – Region 1 (USA), SMART Society, IEM, UEM	Seattle, Washington & Virtual

## Creative Work Produced, Broadcast, and/or publicized out of your Research

Add more rows if needed

Title of Research Project	Publicized by (e.g. TV Show, Newspaper, etc.)	Date	URL (if any)
An Ensemble Machine Learning Approach For Time Series Forecasting of COVID-19 Cases	Indexed by World Health Organization as one of COVID-19 World Literature	December 2021	<a href="https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1672774?lang=en">https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1672774?lang=en</a>
Time-Series Forecasting of COVID-19 Cases Using Stacked Long Short-Term Memory Networks	Indexed by World Health Organization as one of COVID-19 World Literature	December 2021	<a href="https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1537667?lang=en">https://pesquisa.bvsalud.org/global-literature-on-novel-coronavirus-2019-ncov/resource/pt/covidwho-1537667?lang=en</a>

## Research Awards or other Recognitions Received

Add more rows if needed

Name of Award	Awarded by	Awarded During (e.g., name of conference, venue & date)
Best Paper (Data Analytics and Big Data Track)	IEEE	IEEE 2021 UEMCON New York City, New York, USA and Virtual December 4, 2021
Best Paper (Data Analytics and Big Data Track)	IEEE	IEEE 2021 IEMCON Vancouver, Canada and Virtual

		October 30, 2021
Best Paper (Role of Modern Technologies in Combating COVID-19 Track)	IEEE	IEEE 2021 3ICT Zallaq, Bahrain and Virtual September 30, 2021
Best Paper (Data Analytics and Big Data Track)	IEEE	IEEE 2021 AlIoT Seattle, Washington, USA & Virtual May 13, 2021