**APPLICATION FORM FOR PROFESSORIAL CANDIDATE CERTIFICATION**

EVALUATION ON PROFESSED FIELD

Instruction:

1. Fill in the *Application Form*. You may download this form here <https://tinyurl.com/freclassform>.
2. Provide the printed copy of the published research article.
3. For patent, attach the copy of the patent registration.
4. For creative works, attach the original work and/or other supporting documents related to the work.
5. For extension and production projects, attach the necessary original supporting documents.
6. Provide the Google link for all scanned original or certified true copy of evidences.

**Name of Candidate:** RENATO R. MAALIW III

**Address:** 150 A. Bonifacio St., Brgy. 3, Sitio Nabotas, Lucban, Quezon

**Contact Details**

**Mobile No.:** 0998 – 900 – 1045 Landline: N/A

**Email:** rmaaliw@slsu.edu.ph Fax: N/A

**Institution (Full name of SUC):** Southern Luzon State University

**ISS Rating:** \_\_\_\_\_\_\_\_\_\_\_

**Professed field of Specialization for Accreditation:** Machine Learning & Analytics

**Educational Qualification: (Baccalaureate or Post Baccalaureate Degree/Diploma Only)**

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| --- | --- | --- | --- |
| **Degree**  **(Spell out name of degree)** | **Institution** | **Year Graduated** | **Link to evidence** |
| Doctor in Information Technology (DIT) | AMA University | 2016 | [Link](https://drive.google.com/file/d/1pLkzbE585CVE74l6Mo25u6NVVPr7u_kx/view?usp=sharing) |
| Master in Information Technology (MIT) | Manuel S. Enverga University Foundation | 2010 |  |
| Bachelor of Science in Computer Engineering (BSCpE) | AMA University | 2005 |  |

**Publications for the last five (4) years in an internationally-indexed journal**

|  |  |  |  |
| --- | --- | --- | --- |
| **Title** | **Journal Name and Date of Publication** | **Indexing Body** | **Link to evidence** |
| 1. Spatio-Temporal Attention-Based Real-Time Environmental Monitoring Systems for Land Deformation | Spatial Information Research  (Springer Nature)  July 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1-RUdwR-xZUazJVfIOiDSqkkvMgwXXRQk/view?usp=sharing> |
| 1. AWFCNET: An Attention-Aware Deep Learning Network with Fusion Classifier for Breast Cancer Classification Using Enhanced Mammograms   *(Lead Author)* | IEEE Xplore  July 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1FSE2S9fS8MhCXs_BeqzmGcd3AkGd1v8y/view?usp=sharing> |
| 1. A Comparative Analysis of the Machine Learning Model for Rainfall Prediction in Cavite Province, Philippines | IEEE Xplore  July 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1EWqfUOSjVsZ0O-F2Cuu5GIch1cwTum9o/view?usp=sharing> |
| 1. Intelligent Four-Way Crossroad Safety Management for Autonomous, Non-Autonomous and VIP Vehicles | IEEE Xplore  June 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/16UaXBnExcL8d-z-rS4m2iIMvYiWRVyBE/view?usp=sharing> |
| 1. Constructor Development: Predicting Object Communication Errors | IEEE Xplore  June 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/19wixb-VT9bcdzEn1I1hNewQ9SLUB5ltN/view?usp=sharing> |
| 1. Identification of Coronary Artery Disease Using Extra Tree Classification | IEEE Xplore  June 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1v_7PkSbSud52JY2VavnVhDpX4Msx2e_L/view?usp=sharing> |
| 1. Policy Conflict Detection Approach for Decision-Making in Intelligent Industrial Internet of Things | Computers & Electrical Engineering  (Elsevier)  May 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1dtx4b7WAlf_0ti0DsFkxDe-p03VUxKcp/view?usp=sharing> |
| 1. Golden Apple Snail 'Kuhol' Eggs Detection Using MATLAB Image Processing | IEEE Xplore  May 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1FQGXvh65uaCQCFNqGN7G4pXdauqNXTnO/view?usp=sharing> |
| 1. I-Respond: Mobile Application for Emergency Response Using Dijkstra’s Algorithm Shortest Path | IEEE Xplore  May 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1zhTKbI8dA8FF_WzZfxdSSIWedesczCJf/view?usp=sharing> |
| 1. Virtual Dietitian as a Precision Nutrition Application for Gym and Fitness Enthusiasts: A Quality Improvement Initiative | IEEE Xplore  May 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1PXk8F8VKltvr8-vXmupi4cYMrzliHcpw/view?usp=sharing> |
| 1. Sociodemographic Profile as Moderators in the Technology Acceptance of Productivity Applications | IEEE Xplore  May 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1kHXz7-NI-kDXzru4MSJatbYNrV51FAOF/view?usp=sharing> |
| 1. An Enhanced Segmentation and Deep Learning Architecture for Early Diabetic Retinopathy Detection   *(Lead Author)* | IEEE Xplore  April 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1mY5__-A7JEQwvMYEGnTRQpY_BVcBYTg_/view?usp=sharing> |
| 1. Energy Efficient Indoor Localisation for Narrowband Internet of Things | CAAI Transactions on Intelligence Technology  (Wiley - Blackwell)  March 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1HWPPPUxdLHKPx7x-aHVktdUIBg2wvX_n/view?usp=sharing> |
| 1. Scenario-Based Multi-Objective Location-Routing Model for Pre-Disaster Planning: A Philippine Case Study | Sustainability  (MDPI)  March 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1KYNzrW0i2812MO-RRD__kJt68cAgR9Uw/view?usp=sharing> |
| 1. Sensing Functions of an Iron-Doped Boron Nitride Nanocone Towards Acetaminophen and Its Thio/Thiol Analogs: A DFT Outlook | Diamond & Related Materials  (Elsevier)  March 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1T4LZ1DGaZ5_Zphd1PPah_jTzDwZj7vFJ/view?usp=sharing> |
| 1. OCLEAN: An Endless 2D Mobile Game Focused on The Awareness of Cleaning Marine Plastic Waste | IEEE Xplore  March 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1p9kpMfsEgOnpi4OJKIezeTSRamWw04rt/view?usp=sharing> |
| 1. Detecting Appropriate and Innapropriate COVID-19 Face Mask Wear in Controlled Environments Using Transfer Learning-Based Convolutional Neural Network | IEEE Xplore  March 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/137NKfYVbF4sioarxQhrlG7J3og1fxuWF/view?usp=sharing> |
| 1. Multi-Active Multi-Datacenter Distributed Database Architecture Design Based-on Secondary Development Zookeeper | IEEE Xplore  March 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1haXm9q9gMP8QXqvG_DnSRImO3ii_bG37/view?usp=sharing> |
| 1. Population Estimation Using Wi-Fi’s Received Signal Strength Indicator Based on Artificial Neural Network | IEEE Xplore  January 2023 | SCOPUS & WOS | <https://drive.google.com/file/d/1E6U7SdNIG_0CayKBTrd8yb01ph2Ldy3v/view?usp=sharing> |
| 1. Barrier-Free Routes in a Geographic Information System for Mobility Impaired People | IEEE Xplore  December 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1vYcGbn0GvRsj04bb4K4z6jBJLZPeFduh/view?usp=sharing> |
| 1. A Low-Cost Highly Responsive Capacitive Control Switch for Lighting and Motor Control System | IEEE Xplore  December 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1z12QPkq3OmgyAoy2rvgNL_VX8S14bOV1/view?usp=sharing> |
| 1. A Multistage Transfer Learning Approach for Acute Lymphoblastic Leukemia Classification   *(Lead Author)* | IEEE Xplore  December 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1oZKOiF1rtDrCqlAb_rS4drugCBTuAorT/view?usp=sharing> |
| 1. Cataract Detection and Grading Using Ensemble Neural Networks and Transfer Learning   *(Lead Author)* | IEEE Xplore  November 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1R-RKaRXc57CKPEt_H2YGhJMRpKVLEEGY/view?usp=sharing> |
| 1. An Efficient Safety and Authorized Helmet Detection using Deep Learning | IEEE Xplore  November 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1L3sgPUdyJ26D04tmjO71sdh7fJE1i5R2/view?usp=sharing> |
| 1. Deep Learning Technique Detection for Cotton and Leaf Classification | IEEE Xplore  November 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1ncxa4YNZwQHWGQIzbN-z5dfwqKhQIm4I/view?usp=sharing> |
| 1. Safety Gear Compliance Detection Using Data Augmentation-Assisted Transfer Learning in Construction Work Environment | IEEE Xplore  July 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1neXszvsJeRWcHMvZqbkRy8mo2At5FeCG/view?usp=sharing> |
| 1. Computer Vision-Based Signature Forgery Detection System Using Deep Learning: A Supervised Learning Approach | IEEE Xplore  July 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1Vm_cUMtlQ6TYFCOOjK3R1vIyZUkvB28F/view?usp=sharing> |
| 1. A Deep Learning Approach for Automatic Scoliosis Cobb Angle Identification   (Lead Author) | IEEE Xplore  June 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1En8h5cDcqHKCEFkYwoACYvwkl1cJkZFz/view?usp=sharing> |
| 1. Clustering and Classification Models for Student's Grit Detection in E-Learning   (Lead Author) | IEEE Xplore  July 13, 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1En8h5cDcqHKCEFkYwoACYvwkl1cJkZFz/view?usp=sharing> |
| 1. Salted Egg Cleaning and Grading System Using Machine Vision | IEEE Xplore  May 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1PLgRexlX6c32C6bKnP07O-nkG384wbhY/view?usp=sharing> |
| 1. Web-Based Performance Evaluation System Platform Using Rule-Based Algorithm | IEEE Xplore  May 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1yV2vTZj_8E-O8Bb2Uy3OcbtV4ih9Wuw8/view?usp=sharing> |
| 1. Analysis of Exponential Smoothing Forecasting Model of Medical Cases for Resource Allocation Recommender System | IEEE Xplore  May 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1FHGtH2yMx_zObyS4lMSNq6nbKNl27yTC/view?usp=sharing> |
| 1. Employability Prediction of Engineering Graduates Using Ensemble Classification Modeling   (Lead Author) | IEEE Xplore  March 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1n8KhFAngCiWo_tcaO3hrLoM9acu2t-Xa/view?usp=sharing> |
| 1. **A Personalized Virtual Learning Environment Using Multiple Modeling Techniques**   **(Sole Author)** | IEEE Xplore  January 2022 | SCOPUS & WOS | <https://drive.google.com/file/d/1Ik9_rHIqeJpdJEK8V2bqrK4RKlvcXfdn/view?usp=sharing> |
| 1. A Circuit Design of a Sensor Amplifier for Improving Blood Pressure Measurement in Telehealth System | IEEE Xplore  December 2021 | SCOPUS & WOS | <https://drive.google.com/file/d/15n7-K1StYKYdOuBdCCpTgZ8HF_fSNlQg/view?usp=sharing> |
| 1. An Ensemble Machine Learning Approach For Time Series Forecasting of COVID-19 Cases   (Lead Author) | IEEE Xplore  December 2021 | SCOPUS & WOS | <https://drive.google.com/file/d/188Yl7mWc2jpS-djlEtorf1AV8sywOf0r/view?usp=sharing> |
| 1. Time-Series Forecasting of COVID-19 Cases Using Stacked Long Short-Term Memory Networks   (Lead Author) | IEEE Xplore  November 2021 | SCOPUS & WOS | <https://drive.google.com/file/d/1UwVGwnYBWf-vT1-GzaG0wBKlWQae_Aws/view?usp=sharing> |
| 1. Utilization of Different Wireless Technologies' RSSI for Indoor Environment Classification using Support Vector Machine | IEEE Xplore  August 2021 | SCOPUS & WOS | <https://drive.google.com/file/d/1LaJG18Ko28NjqY39GxbYaIB2gSkCeQfr/view?usp=sharing> |
| 1. **Early Prediction of Electronics Engineering Licensure Examination Performance Using Random Forest**   **(Sole Author)** | IEEE Xplore  June 2021 | SCOPUS & WOS | <https://drive.google.com/file/d/1Lk-trxj_kiWpiOBmnSv0mOdnQvlkguk1/view?usp=sharing> |
| 1. **Adaptive Virtual Learning Environment Based on Learning Styles for Personalizing E-Learning System: Design and Implementation**   **(Sole Author)** | IEEE Xplore  March 2020 | Google Scholar, DOAJ, ERIC | <https://drive.google.com/file/d/10jfnZWyg5VBt4WV7IzVkbxJatQMvD_rw/view?usp=sharing> |

**Extension Projects**

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| --- | --- | --- |
| **Title of Project** | **Significant Contribution** | **Link to evidence** |
| Establishment of GeoSpatial and Data Analytics Laboratory for Capacity Building of SLSU  CHED - Institutional Development & Innovation Grant (PHP 5,489,380)  Project Duration: 2022 – 2024 (on-going) | Supervision of the entire project, training coordinator, lead researcher | <https://drive.google.com/file/d/1SyN9t5BN7AB77GWTlt3DCfZ72yss5bBw/view?usp=sharing> |

Additional Instruction on document preparation:

1. Prepare five (5) folders. The four (4) folders containing the photocopy of the evidences and one (1) folder containing the original copy or the certified true copy of evidences for listed qualifications/achievements on the *Application Form* for onsite validation*.* Properly label each section in each folder. The Professorial Candidate shall bring all 5 folders on the day of the Candidate’s interview.
2. Photo documentation maximum of 2 pages each.
3. Submit this accomplished form together with a Curriculum Vitae maximum of five (5) pages only.

This is to affirm that all the information provided in this document for the purpose of my application for the College/University Professorial Certification are all true and correct.

**RENATO R. MAALIW III October 16, 2023**

Signature over printed name Date