Jose Rizal University

College of Computer Studies Engineering

Computer Engineering Department

W9 - Webinar Report

CPE C409 – SEMINARS AND FIELDTRIPS

Submitted by:

Exiquiel John A. Pines

Submitted to:

Mrs. Monette Loy-A

Date Submitted:

October 9, 2023

Hosting Institution: **Institute of Computer Engineers of the Philippines (ICpEP)**

Seminar Title: **Machine Learning on the Edge**

Speaker: **Dr. Vladimir Mariano**

Seminar Date and Time: **September 15, 2023 / 1:05 PM**

Seminar Venue: **Webinar via Zoom**

On September 15, 2023, I attended the 3rd International Convention and 11th National Convention of the Institute of Computer Engineers of the Philippines. One of the talks was titled "Machine Learning on the Edge". The talk was led by Dr. Vladimir Mariano, a Lead Faculty for Technology and Innovation at YSEALI Academy at Fulbright University Vietnam.

The fields of artificial intelligence and machine learning are constantly developing in today's quick-changing technological environment. Thanks to technological breakthroughs and the emergence of the Internet of Things (IoT), what was once the purview of powerful machinery has now been extended to small, linked devices. A new era of opportunities is being ushered in by edgeML, edge AI, tinyML, and AIoT. With the Raspberry Pi Pico W and the Microblocks platform as our primary teaching tools, we explore the fascinating possibilities of teaching machine learning on the edge to 12-year-olds in this essay.

The Raspberry Pi Pico W is a great place to start for those who are new to machine learning. This compact microcontroller is reasonably priced and provides a user-friendly platform with enormous potential. It is especially well suited for educational settings due to its adaptability and simplicity of use. The possibilities become essentially infinite when used in conjunction with Microblocks, an educational software platform created to teach programming and electronics to young students.

The chance to use MIT App Inventor is an exciting feature of teaching machine learning to 12-year-olds using the Raspberry Pi Pico W and Microblocks. Students can build Android applications using this platform that can command devices using the MQTT protocol. Students can create Android apps using MIT App Inventor without the need for sophisticated coding knowledge thanks to its user-friendly interface and intuitive features. This gives young students the tools they need to explore machine learning and get involved in app development in a useful way.

It is an exciting journey with great potential to teach machine learning on the edge to 12-year-olds using the Raspberry Pi Pico W, Microblocks, MIT App Inventor, and neural networks. We are preparing them to take the lead in an AI-driven future by fostering the curiosity and enthusiasm of young learners and giving them the tools to explore the world of technology. These programs not only encourage creativity but also help to advance the fascinating field of machine learning. We set out on a journey to inspire the upcoming generation of technology leaders and pioneers together.

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W9 - Webinar Evaluation

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Submitted by:

Exiquiel John A. Pines

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Seminar Evaluation Form

Topic : Machine Learning on the Edge
Speaker : Dr. Vladimir Mariano
Date : September 15, 2023
Time : 1:05 pm

exiqueiljohn.pines@my.jru.edu Switch account

☁ Draft saved

* Indicates required question

Email *

☑ Record **exiqueiljohn.pines@my.jru.edu** as the email to be included with my response

Name *

Exiquiel John A. Pines

I. CONTENT

Relevance of the topic discussed *

	1	2	3	4	5	
Poor	○	○	○	○	◉	Excellent

Scope of the topics covered *

	1	2	3	4	5	
Poor	○	○	○	○	◉	Excellent

Usefulness of activities *

	1	2	3	4	5	
Poor	○	○	○	○	◉	Excellent

Clarity of the presentation *

	1	2	3	4	5	
Poor	○	○	○	○	◉	Excellent

The presentation was well organized *

	1	2	3	4	5	
Poor	○	○	○	○	◉	Excellent

Did you find the content practical and applicable to your interest? *

◉ Yes

○ No

Did the content provide you with new insights or knowledge? *

Did the content provide you with new insights or knowledge? *

◉ Yes

◯ No

Which specific topics or areas of the content did you find most valuable? *

All

II. RESOURCE PERSON

Mastery of the topic *

	1	2	3	4	5	
Poor	◯	◯	◯	◯	◉	Excellent

Effectiveness of the speaker *

	1	2	3	4	5	
Poor	◯	◯	◯	◯	◉	Excellent

How well did the speaker engage with the audience (e.g., Q&A, discussions)? *

	1	2	3	4	5	
Poor	◯	◯	◯	◯	◉	Excellent

The speaker's presentation was clear and engaging *

	1	2	3	4	5	
Poor	○	○	○	○	◉	Excellent

Did the speaker engage the audience and maintain your interest? *

◉ Yes

○ No

What aspects of the speaker's presentation did you find particularly effective or valuable? *

All

III. OVERALL SATISFACTION

How satisfied are you with the overall seminar event? *

	1	2	3	4	5	
Very Dissatisfied	○	○	○	○	◉	Very Satisfied

List any suggestions you have for improving the presentation

Your answer

A copy of your responses will be emailed to exiqueiliohn.pines@mv.iru.edu.

docs.google.com/forms/u/1/d/e/1FAIpQLSeJrrosOCb7w8EutYJWk4bGmIBXEWpITE0BOH26lCt50J...

Seminar Evaluation Form

Your response has been recorded.

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INSTITUTE OF COMPUTER ENGINEERS OF THE PHILIPPINES

presents this

Certificate of Participation

to

EXIQUIEL JOHN A. PINES

for his/her active and invaluable participation on
Topic: Machine Learning on the Edge
during the conduct of **3rd International Convention and 11th National Convention of the Institute of Computer Engineers of the Philippines,**
held from the **14th** *to the* **15th of September 2023** *at* **The Farm @ Carpenter Hill Koronadal City, South Cotabato, Philippines,** *with the theme*
"Engineering Digital Transformation for Smart and Sustainable Communities."

Given this 15th day of September 2023 at The Farm @ Carpenter Hill Koronadal City, South Cotabato, Philippines.

ENGR. PERCILA M. PANAGDATO, PCpE
Overall Chairman, ICpEP IntNatCon 2023
President, ICpEP-R12

DR. ROBEN A. JUANATAS, PCpE
National President, ICpEP