

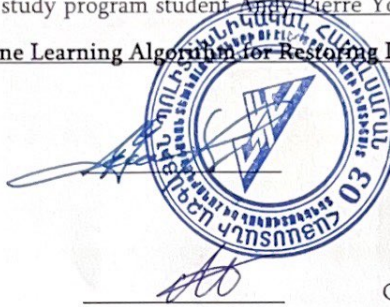
NATIONAL POLYTECHNIC UNIVERSITY OF ARMENIA

Review Referral

Dear Mr/Ms M.G. Usepyan

Please, make a review on NPUA Institute of Information and Communication Technology and Electronics Institute/Faculty TT019a academic group «Software Engineering» specialty's «Software Engineering» Bachelor's degree study program student Andy Pierre Younes Thesis on the following topic «Development of a Machine Learning Algorithm for Restoring Damaged Images».

/Director of the Institute/Dean



S.A.Manukyan, Ph.D.,

Assoc. Professor

Head of Chair

G.I.Margarov, Ph.D., Professor

Diploma Thesis review

The NPUA IICTE Institute/Faculty TT019a group full-time study program student Andy Pierre Younes's Diploma Thesis aligns with the requirements, it is assessed as excellent and the student is recommended to be awarded «Bachelor of Informatics» Qualification on «Software Engineering» Specialty.

Reviewer M.G. Usepyan

Seal signature (last name, first name, middle name)

Position Lecturer

The considerations on the Diploma Thesis quality are presented on the opposite side of the page

Main queries to be used for the evaluation of Diploma Thesis (D.Th.)

N	QUERY	Yes, Partly, No
1	The content of D.Th. aligns with the requirements of the task	Yes
2	The topic of D.Th. is up-to-date and has a perspective significance	Yes
3	Modern methods of design and investigation are used in the D.Th.	Yes
4	The D.Th. is drawn up in accordance with the current requirements	Yes
5	The vocational section of D.Th. is implemented at the proper level	Yes
6	Some applied software packages or algorithmic languages are used in the D.Th. to solve the given tasks	Yes
7	The student used necessary technical literature and reference manuals concerned the topic of D.Th.	Yes
8	The quality of performance of graphical section aligns with the requirements	Yes
9	The economic section of D.Th. is implemented at the proper level and is in line with the topic of D.Th.	Yes
10	The section of life sustenance aligns with the topic of D.Th. and is implemented at the proper level	Yes
11	The section of nature protection aligns with the topic of D.Th. and is implemented at the proper level	Yes

Remarks:

1. The model's performance is limited when processing large-sized images, resulting in defects such as pixelation, and decolorization in certain areas with blurring effects on the processed image.

2. _____

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Suggestions:

1. _____

2. _____

Reviewer M.G.Usepyan
(last name, first name, middle name)

signature



SUPERVISOR'S REVIEW

on

Bachelor Student at NPUA IICTE, TT019a Academic Group

Andy Pierre Younes's Diploma Thesis

"Development of a Machine Learning Algorithm for Restoring Damaged Images"

Andy Younes's diploma thesis consists of introduction and problem statement sections, 3 main chapters, as well as separate chapters on economic, ecological, and life safety sections. The thesis is summarized with a conclusion followed by a reference list.

The first chapter presents a literature review of the existing image restoration techniques and machine learning algorithms. The chapter ends with the problem statement.

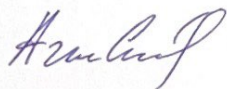
The second chapter presents the traditional algorithm integration, the hybrid approach, as well as training hybrid approach for image restoration.

The third chapter presents the steps of the implementation for the automated system developed within the framework of the diploma thesis. The chapter also covers the programming environment, the technology stack, the functionality, as well as dashboard and visualization of image restoration results.

The thesis is complete, aligns with the requirements, and can be used for some class of damaged image restoration purposes. While preparing the thesis Andy established herself as a conscientious student, fulfilling the assigned tasks properly.

If properly defended, the thesis deserves an excellent grade, and Andy Younes is recommended to be awarded "Bachelor of Informatics" qualification in "Software Engineering".

Supervisor



A.H. Grigoryan, Ph.D., Associate Professor