DIP (Spring 2020)

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Project 05. Image Gradients

Due Date: 3/2/2020, by 11:59 PM

Write a Java program that will create the following gradients of a ***gray level*** image:

* **Basic gradient-01**:



* 1. Output:1 image. Label as follows:
     1. imageName\_ **Basicgradient**01.jpg

|  |  |
| --- | --- |
| Original Image | Basic Gradient-01 Image |
|  |  |

1. **Basic gradient-02:**



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1. Output:1 image. Label as follows:
   * 1. imageName\_ **Basicgradient**02.jpg

|  |  |
| --- | --- |
| Original Image | Basic Gradient-02 Image |
|  |  |

1. **Robert gradient:**



1. Output:1 image. Label as follows:
   * 1. imageName\_ **Robert**gradient.jpg

|  |  |
| --- | --- |
| Original Image | Robert Gradient Image |
|  |  |

1. **Sobel gradient:**



1. Output:1 image. Label as follows:
   * 1. imageName\_**Sobel**gradient.jpg

|  |  |
| --- | --- |
| Original Image | Sobel Gradient |
|  |  |

1. **Prewitt gradient:**



1. Output:1 image. Label as follows:
   * 1. imageName\_**Prewitt**gradient.jpg

|  |  |
| --- | --- |
| Original Image | Prewitt Gradient Image |
|  |  |

**Grading and Submission Guide:**

* Must submit the whole project zipped using 7zip tools with the name: LastName\_FirstName\_Project-05
* For this project, I also need to see screen shots of your program run. Follow the same format as in the previous project. Put the screen shots in a doc/pdf file and submit with the zipped file.
* This is an **individual** project: The work should represent your own: that you acknowledge that have not incorporated into this project any unacknowledged material from the work of another person, including papers, words, ideas, information, computer code, data, evidence-organizing principles, or style of presentation taken from the Internet, books, periodicals, or other sources.