Homework 1
M1522.001000 Computer Vision (2017 Spring)

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Fill anything you want to say about your homework.

[**Important**] **Reference to work of others.** You can refer to another person's key idea in writing the source code, but in this case you must leave a reference in the writeup. If you take someone else's idea and leave a reference, you will only get 0 points in the "Implementation" part of that problem in the scoring process. However, please note that if you do not mention the reference even though you have brought in someone else's idea, you will get 0 points for all the problems in that homework.

1 Composing Filters [15 points]

Fill your answers.

You can insert your figure by using `\begin{figure}`. You can refer your figure by using `\ref{fig:example_figure}`.

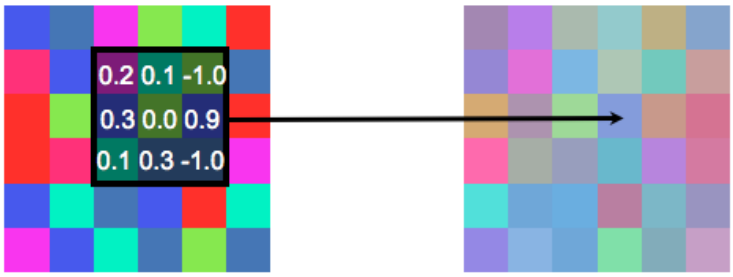

Figure 1: Example Figure

You can enumerate subquestions like this.

1. Enumerate item 1.
2. Enumerate item 2.
3. Enumerate item 3.

You can write your equations by using `\begin{aligned}`. We highly recommend you to use `\newcommand` to simplify your equation in LaTeX.

$$\boldsymbol{A} = 12 \tag{1}$$
$$\alpha_{12}^{35} = 1234 \tag{2}$$
$$\beta_1 = 10 \tag{3}$$

You can cite your reference by using `\cite{reference_name}`. For example, cite R.Szeliski's Compute Vision book [1] like this.

2 Some materials for HW2 [5 points]

Step	Variable eliminated	Factors used	Variables involved	New factor
1				
2				
3				
4				
5				
6				
7				

Table 1: A run of variable elimination for the query $P(J)$

References

[1] Richard Szeliski. *Computer vision: algorithms and applications*. Springer Science & Business Media, 2010.