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IMIP SS2018 Exam Questions

1-- Cascade Gaus filter question: 2 Filters has same deviation value( $\sqrt{\pi} \cdot \sigma$ ). Show that convolution result filter has  $\sqrt{2 \cdot \pi} \cdot \sigma$ . --- 14 points

2-- 2D Vesselness general information, probability, and maximum over probability. --14 points

3-- Guided Filter, cost function,  $a_x$  and  $b_x$  values, different cases, flat and other one. --14 points

4-- Variational calculus. Typical  $f_0(x)$  Question. --12 points

5-- Camera calibration, extrinsic intrinsic parameters -- 6 points