

## 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