University of Salzburg <u>Lecturer</u>: Roland Kwitt

Imaging Beyond Consumer Cameras - Proseminar (911.422)

Exercise sheet **D**

3D Sensors - Pulse Modulation

Exercise 1.

Consider the following two double short time integration schemes in Figs. 1 and 2. Formulate the **measurement expressions** x_i for Variant A and B and then the *distance* expression(s) with respect to these measurements. Variant A and B are equally weighted in terms of points (5+5). Here, ToF is the Time-of-Flight, T_p is the pulse time, B is the background measurement (offset) and A is the amplitude.

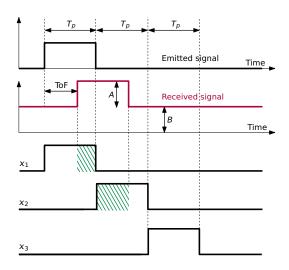


Figure 1: Variant A

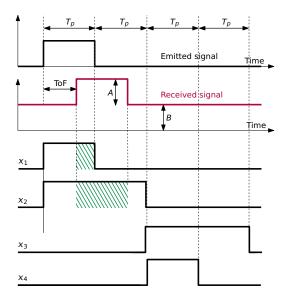


Figure 2: Variant B