

Angiography is an important method to diagnose patients with myocardial thrombosis. It is usually used to detect a stenosis in one of arteries but the data can be further processed to discover problematic capillary areas. This is strongly suggested because the catheterization is invasive, it involves a certain risk for patient and especially it would be invaluable for further decisions about proper pharmaceutical treatment. Problem of opacity quantification on a MBG scale has not been satisfactorily solved yet.<sup>1</sup> The student shall discuss the following in his diploma thesis: recapitulation and comparisons of various methods applicable to the problem of opacity quantification, especially image registration and movement correction, develop a method to automatically quantify the opacity and further implement it as well.