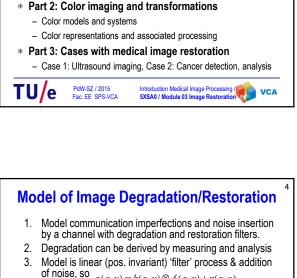
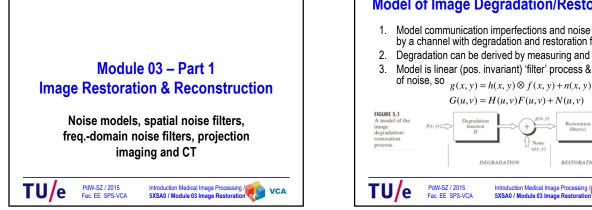
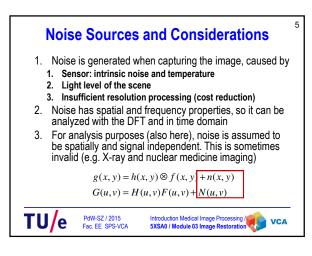


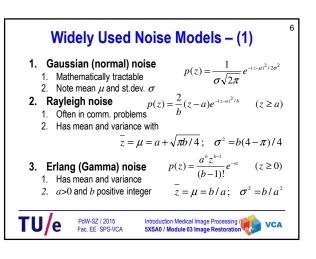
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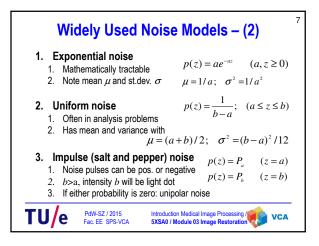


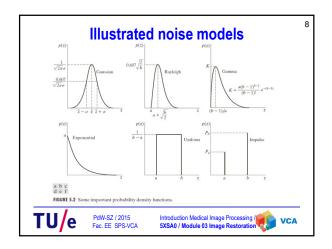


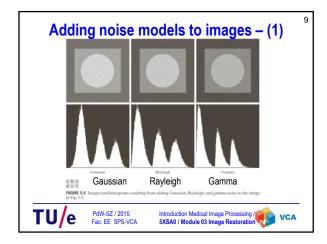


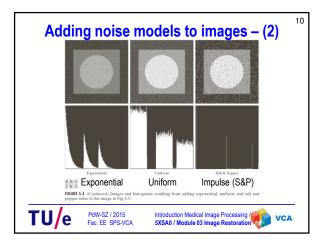
RESTORATION

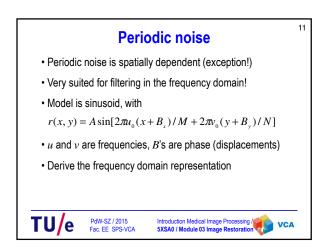
VCA

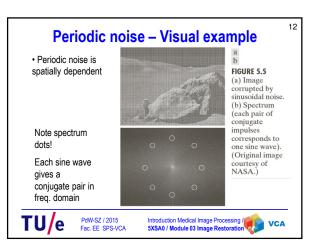


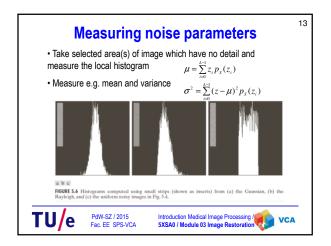


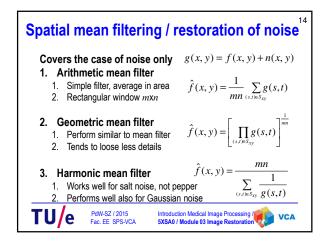


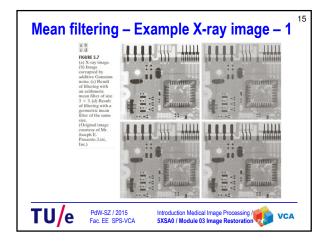


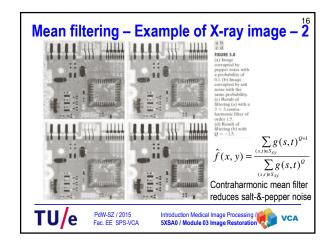


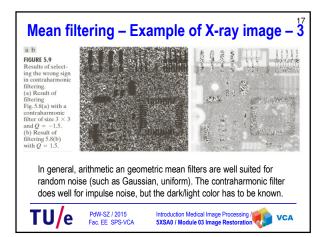


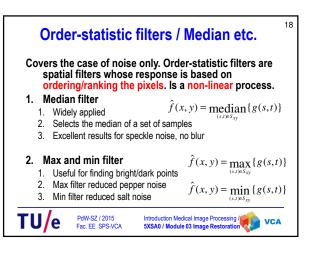


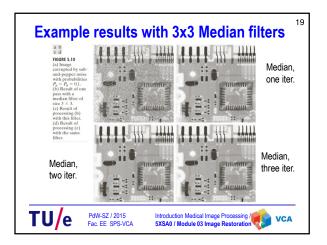


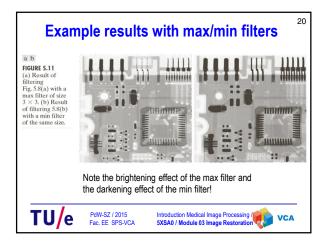


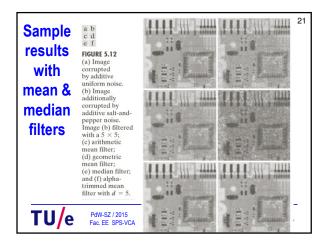


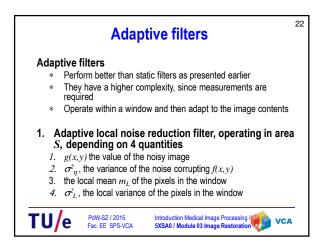


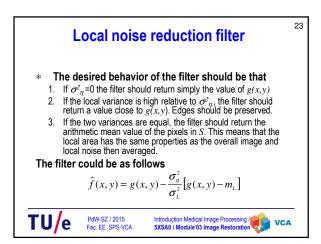


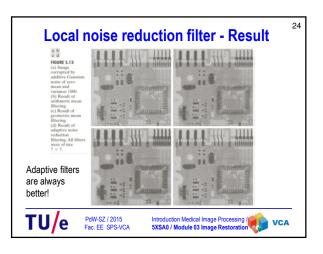


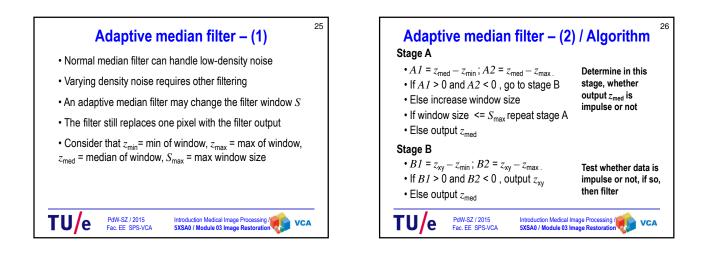


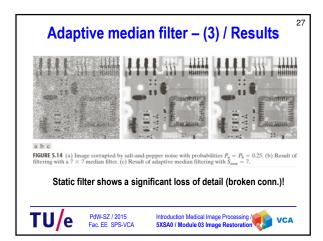


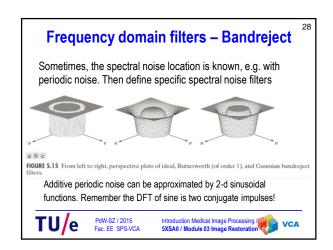


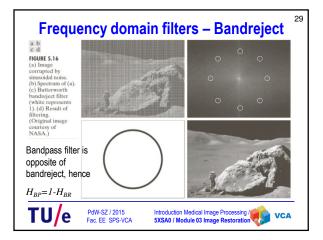


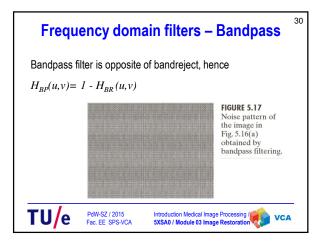


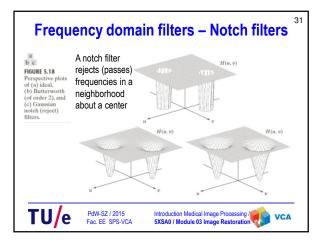


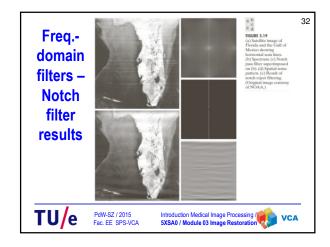


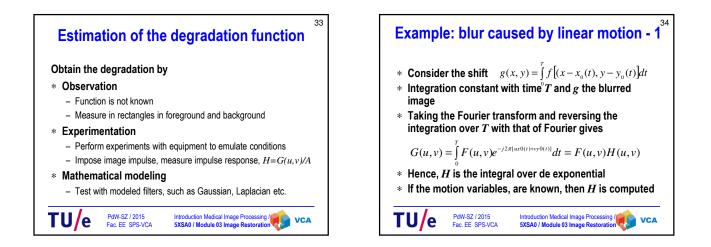


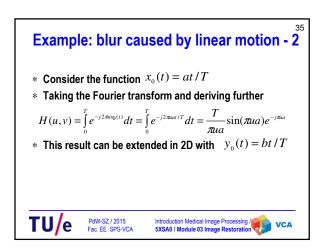


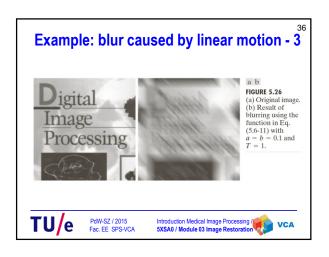


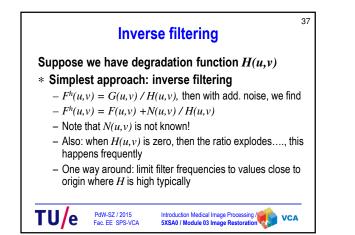


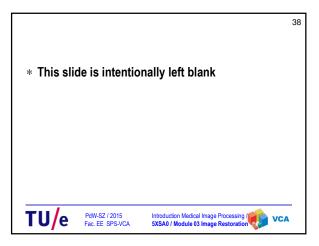


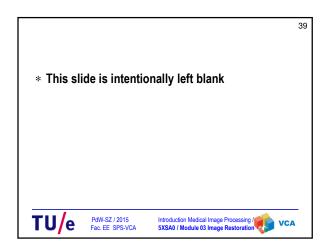


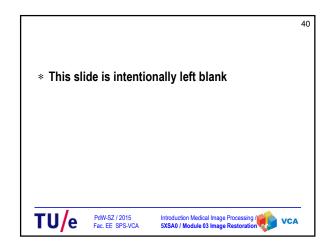


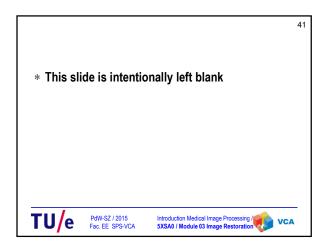


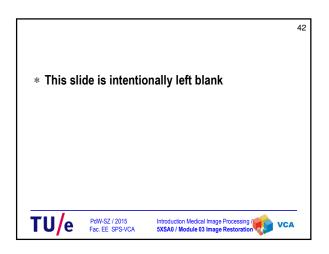


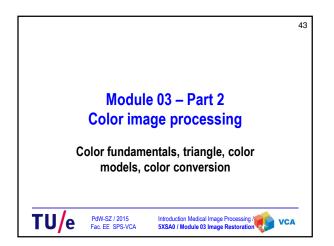


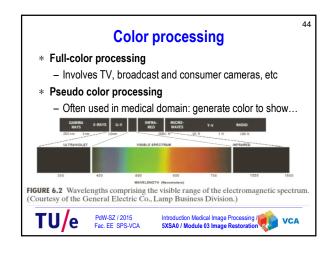


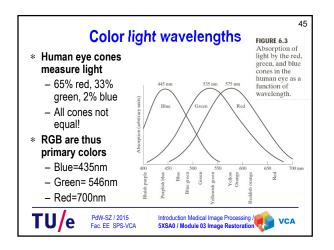


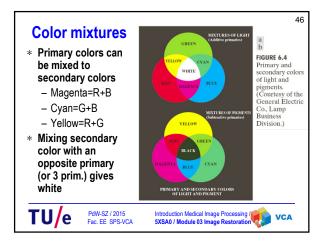


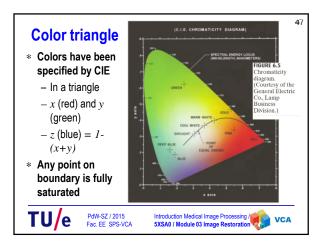


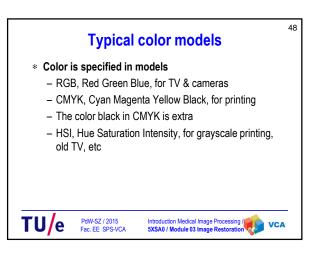


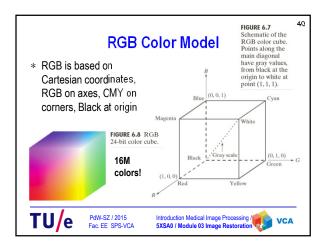


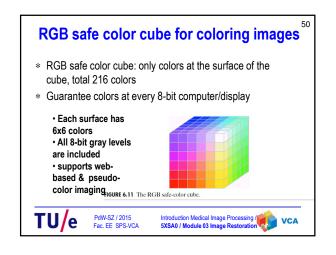


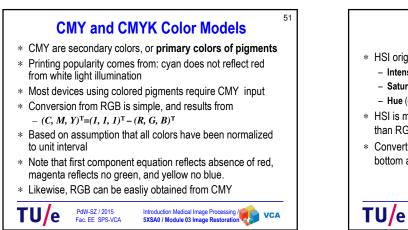


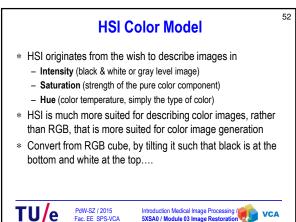


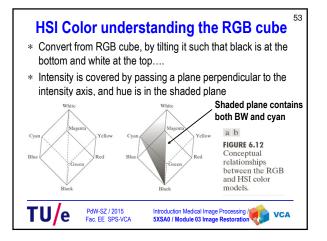


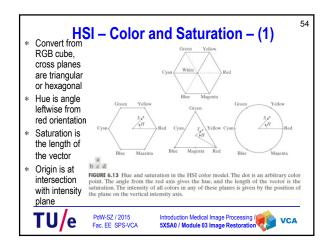


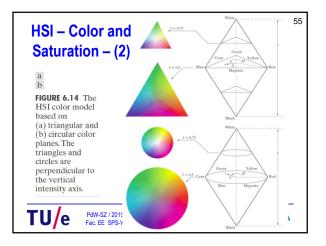


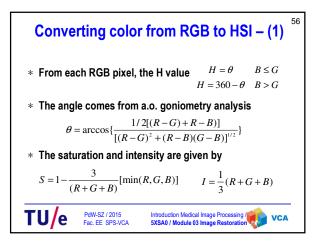


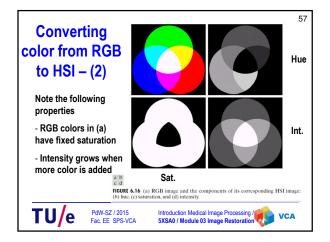


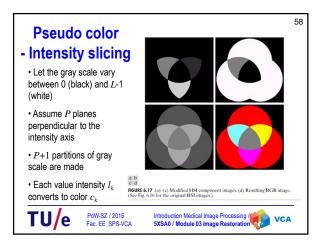


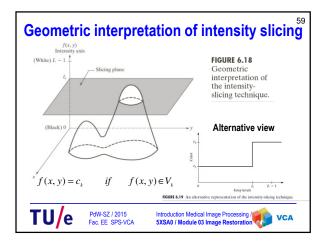


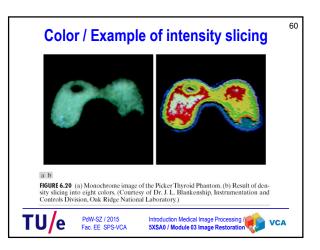


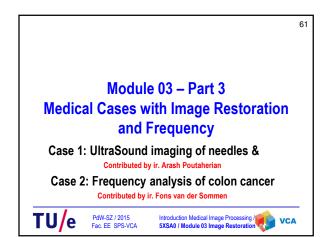




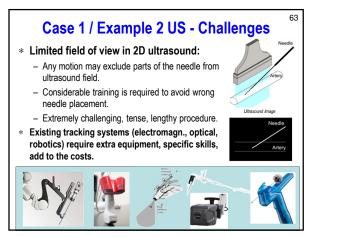




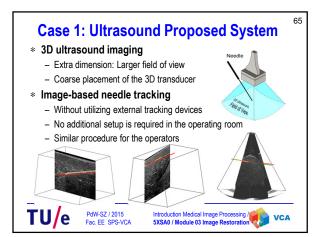


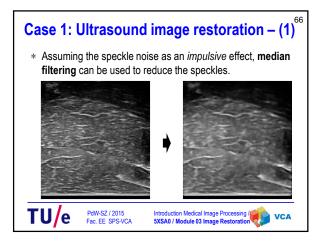


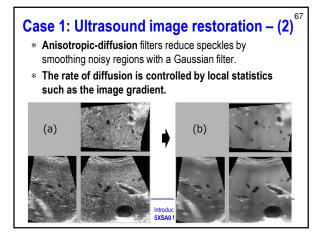


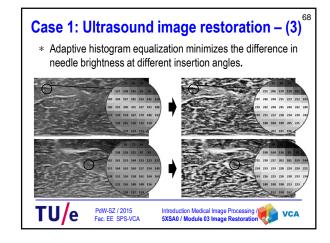


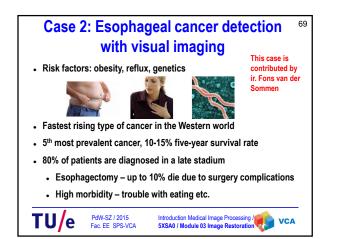
64 Case 1: Ultrasound Image Proc. Challenges Low signal to noise, e.g. spurious speckle noise occurs Various imaging artifacts (e.g. ringing, limited depth) Needle visibility decreases with the insertion angle During an intervention, only short parts of the needle are visible in initial frames During an intervention. During an intervention.

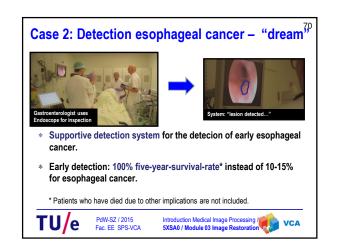


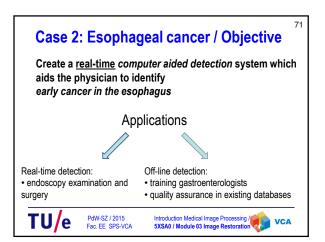


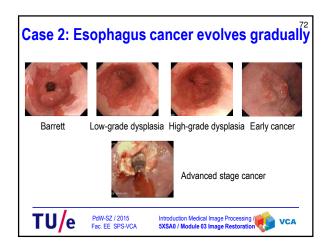












Case 2: Detection cancer – special direct. filters ⁷³		
		🕔 🕖 🌽 😂
 Use specially tuned filters to quantize deviating texture related to early lesions. 		
* Employ machine learning techniques to differentiate between cancerous and non-cancerous tissue.		
TU/e	PdW-SZ / 2015 Fac. EE SPS-VCA	Introduction Medical Image Processing / VCA 5XSA0 / Module 03 Image Restoration

