



3

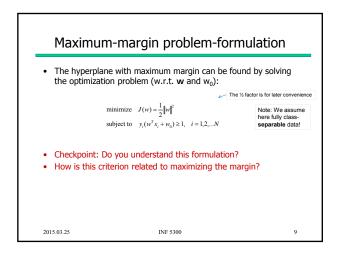
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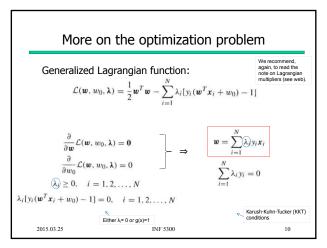
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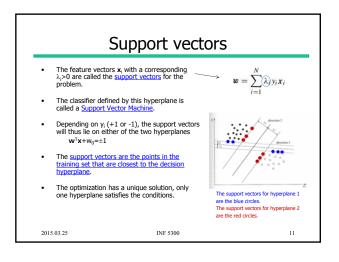
8

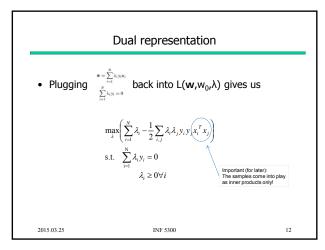
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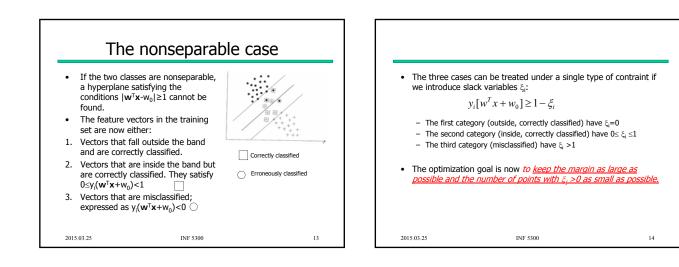
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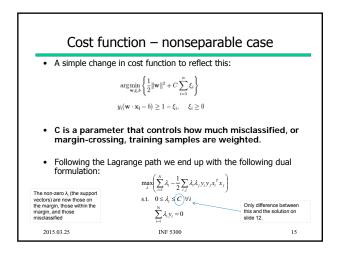


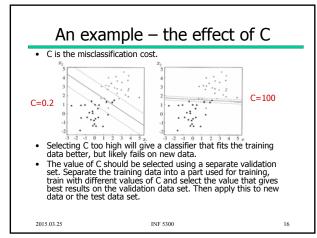


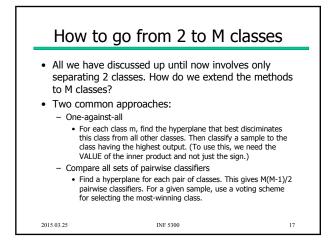


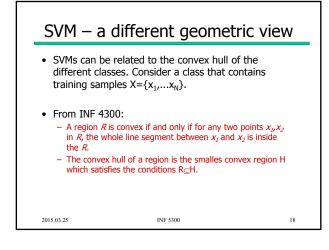


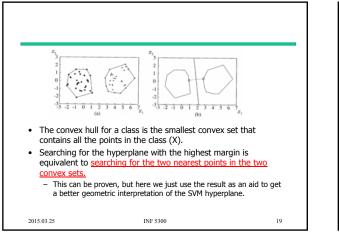


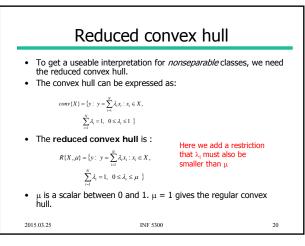


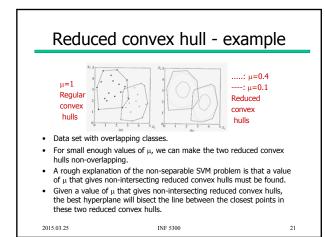


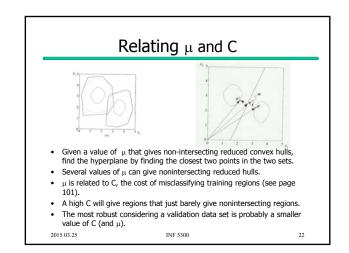












	Checkpoint	
	$\begin{split} & \arg\min_{\mathbf{w},\xi,b} \left\{ \frac{1}{2} \ \mathbf{w}\ ^2 + C\sum_{i=1}^n \xi_i \right\} \\ & y_i(\mathbf{w} \cdot \mathbf{x}_i - b) \geq 1 - \xi_i,  \xi_i \geq 0 \end{split}$	
Do you understa minimization pro	and the different terms and criter oblem?	ia in the above
Which points/sa	mples turn out to be the support	vectors?
2015.03.25	INF 5300	23

SVMs: The nonlinear case intro.		
5	mples are I-dimensional vectors near separation in this I-dimens	·
• This seems quit	te limiting	
	ease the dimensionality (map o onal space) before applying our	
space? Even if	n find a better linear decision bo the feature vectors are not line ey might be (close to) separable ace	arly separable in the
2015.03.25	INF 5300	24

