



3) activation ontput =) for neuron k, UK= 5 WGX; YK= 9 (UR+DK) V bias induced local field > [Vk=Uk+bk] > background potential proported induced by other neurons Simplify the notation VK= DWGXj Yk=+(VK) { Xo=+1 | Wko = bk (b)as/ Activation function O Squash function (hard limiter)  $\phi(v) = \begin{cases} +1 & v \neq 0 \\ 0 & v \neq 0 \end{cases}$  model fire or not fire 2 piece-vise linear f

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