Contents

[11pt]article [utf8]inputenc [T1]fontenc graphicx longtable wrapfig rotating [normalem]ulem amsmath amssymb capt-of hyperref tikz [paperwidth=14.58in, paperheight=10.42in, margin=0.1in]geometry   { pdfauthor={}, pdftitle={Neural Network Diagram}, pdfkeywords={}, pdfsubject={}, pdfcreator={Emacs 29.4 (Org mode 9.7.12)}, pdflang={English}}

[every node/.style=circle, draw,fill=black, minimum size=0.8cm, node distance=2cm]

ıin 1,...,4 (inputı) at (2.8*0, 0 - 2.25* (ı-1)) ;

ıin 1,...,3 (h1$_{ß)at(2.8*3,0.5*2.25-2.25*(ß-1));}$[$draw = none, fill = none$]($h1_dot$)$at(2.8*3, -1.5*2.25)$...; $ßin4, ..., 6(h1_{ß)at(2.8*3,-2*2.25-2.25*(ß-4));}$

ıin 1,...,4 (h2$_{ß)at(2.8*6,1.5*2.25-2.25*(ß-1));}$[$draw = none, fill = none$]($h2_dot$)$at(2.8*6, -0.5*2.25)$...; $ßin5, ..., 8(h2_{ß)at(2.8*6,-2*2.25-2.25*(ß-5));}$

ıin 1,...,6 (h3$_{ß)at(2.8*9,3*2.25-2.25*(ß-1));}$[$draw = none, fill = none$]($h3_dot$)$at(2.8*9, -1.5*2.25)$...; $ßin7, ..., 12(h3_{ß)at(2.8*9,-3.5*2.25-2.25*(ß-7));}$

ıin 1,...,6 (h4$_{ß)at(2.8*12,3*2.25-2.25*(ß-1));}$[$draw = none, fill = none$]($h4_dot$)$at(2.8*12, -1.5*2.25)$...; $ßin7, ..., 12(h4_{ß)at(2.8*12,-3.5*2.25-2.25*(ß-7));}$

ıin 1,...,4 jin 1,...,3 [->] (inputı) $- (h1_{æ);}$ $æin4, ..., 6[->](inputß) -- (h1_{æ);}$

ıin 1,...,3 jin 1,...,4 [->] (h1$_{ß)--(h2_{æ);}$ $æin5,...,8[->](h1_{ß)--(h2_{æ);}}}$

ıin 4,...,6 jin 1,...,4 [->] (h1$_{ß)--(h2_{æ);}$ $æin5,...,8[->](h1_{ß)--(h2_{æ);}}}$

ıin 1,...,4 jin 1,...,6 [->] (h2$_{ß)--(h3_{æ);}$ $æin7,...,12[->](h2_{ß)--(h3_{æ);}}$ $ßin5,...,8æin1,...,6[->](h2_{ß)--(h3_{æ);}æin7,...,12[->](}}$

ıin 1,...,6 jin 1,...,6 [->] (h3$_{ß)--(h4_{æ);}$ $æin7,...,12[->](h3_{ß)--(h4_{æ);}}$ $ßin7,...,12æin1,...,6[->](h3_{ß)--(h4_{æ);}æin7,...,12[->}}$