

Article

# Supplementary Materials: Specific Binding Ratio Estimation of [ $^{123}\text{I}$ ]-FP-CIT SPECT Using Frontal Projection Image and Machine Learning

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I	Input Dataset : x	1,40,40
C	Convolution KemelShape : 7, 7	16,34,34
R	ReLU	16,34,34
M	MaxPooling Shape : 2, 2	16,17,17
C	Convolution_2 KemelShape : 7, 7	40,11,11
M	MaxPooling_2 Shape : 2, 2	40,5,5
T	Tanh	40,5,5
A	Affine	50
R	ReLU_2	50
A	Affine_2	1
S	SquaredError T.Dataset:y	1

(a)

I	Input Dataset : x	1,40,40
C	Convolution KemelShape : 3, 3	64,40,40
R	ReLU	64,40,40
B	BatchNormalization	64,40,40
M	MaxPooling Shape : 2, 2	64,20,20
C	Convolution_2 KemelShape : 3, 3	40,20,20
R	ReLU_2	40,20,20
B	BatchNormalization_2	40,20,20
M	MaxPooling_2 Shape : 2, 2	40,10,10
C	Convolution_3 KemelShape : 3, 3	40,10,10
R	ReLU_3	40,10,10
C	Convolution_4 KemelShape : 3, 3	40,10,10
R	ReLU_4	40,10,10
C	Convolution_5 KemelShape : 3, 3	40,10,10
R	ReLU_5	40,10,10
M	MaxPooling_3 Shape : 2, 2	40,5,5
A	Affine	50
R	ReLU_6	50
D	Dropout P : 0.5	50
A	Affine_2	50
R	ReLU_7	50
D	Dropout_2 P : 0.5	50
A	Affine_3	1
S	SquaredError T.Dataset:y	1

(b)

**Figure S1.** Two types of network diagrams, (a) LeNet and (b) AlexNet. The layer's function is indicated by square boxes. The specifications for each layer are depicted in the figures on the right side of the box. The web site <https://dl.sony.com/> (accessed on 6 April 2023) describes additional details in this figure (Sony Network Communications Inc., 2020).