Visualization of CNN Architectures and Fusion
Methods for the research note
Multi-View Deep Learning for Imaging Atmospheric Cherenkov Telescopes

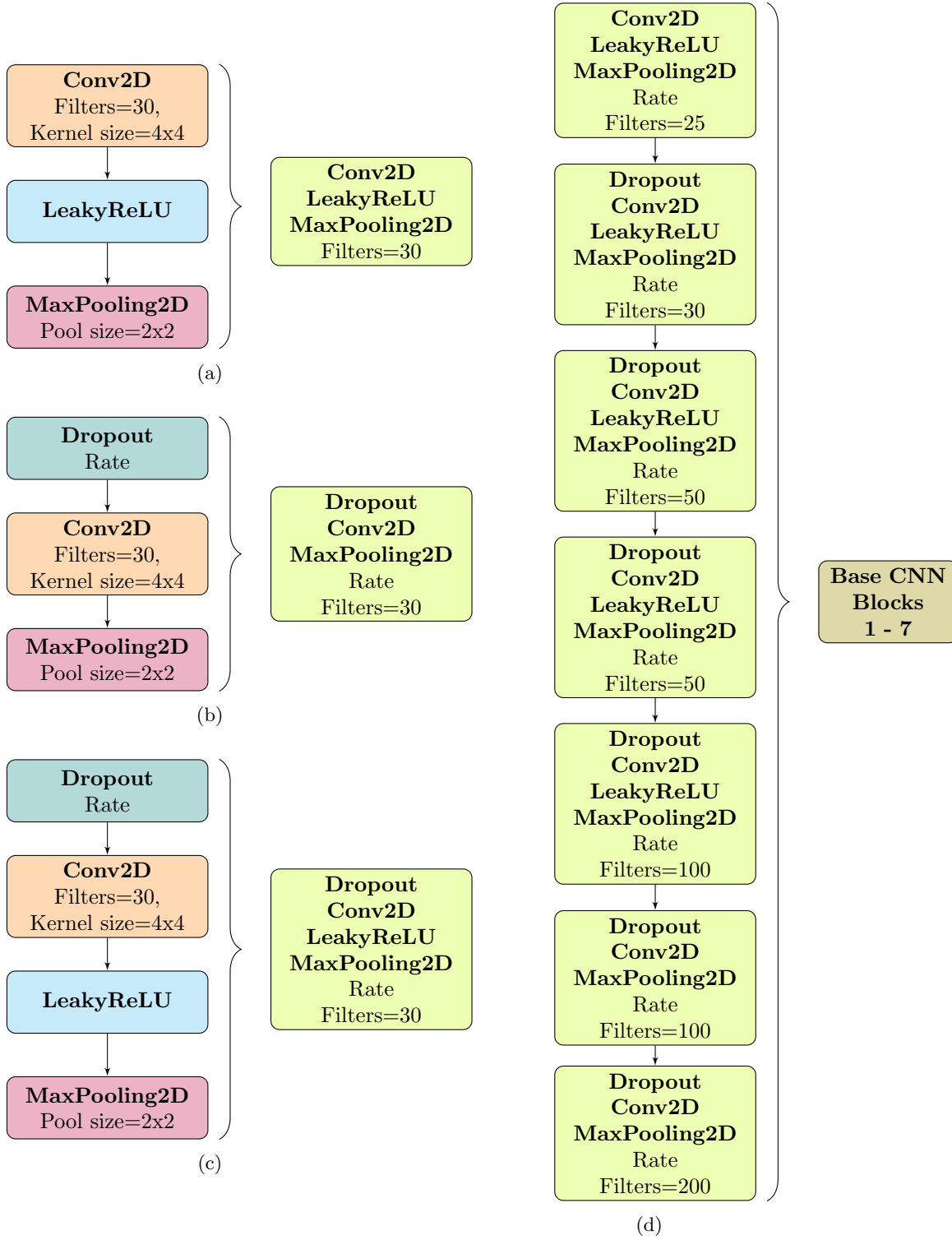Hannes Warnhofer

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Figure 1: Visualization of the CNN approach: Definition of a reoccurring sequence of layers: **Block Type 1** *(a)*, **Block Type 2** *(b)* and **Block Type 3** *(c)* and **Base CNN Blocks 1 - 7** *(d)*. Only the variable parameters are shown in the summarizing box.
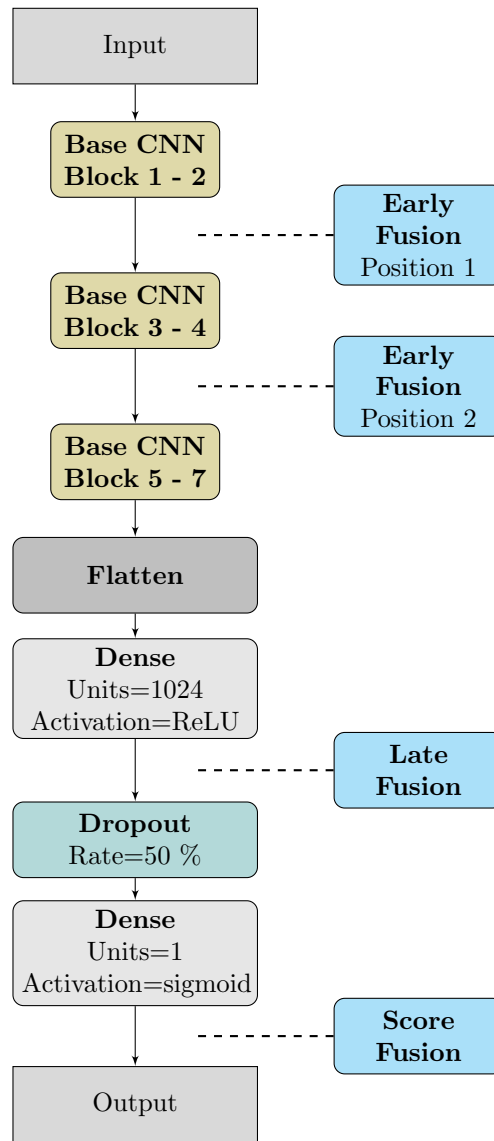
Figure 2: Visualization of the CNN approach: **Single-View CNN** with locations of fusion methods marked
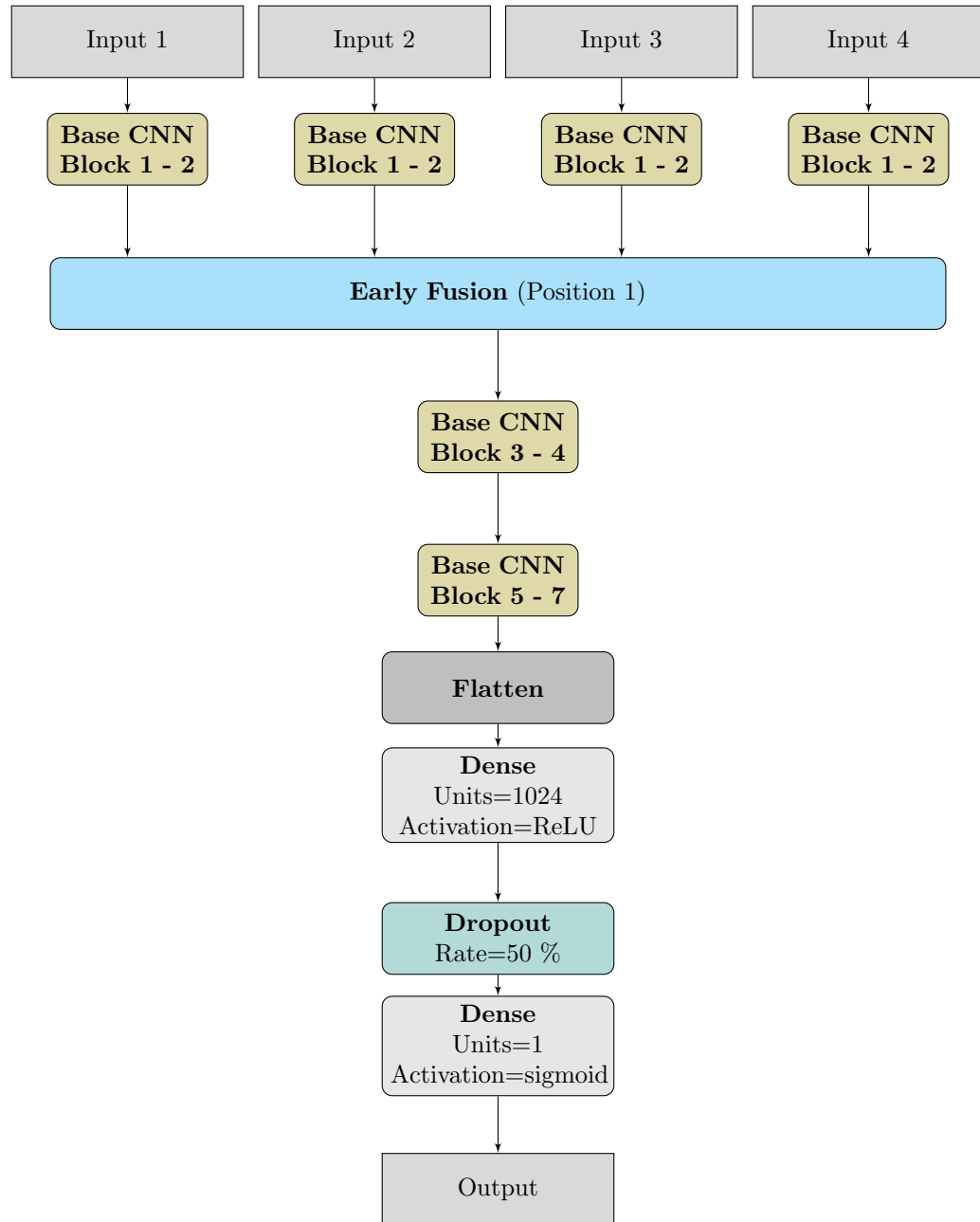
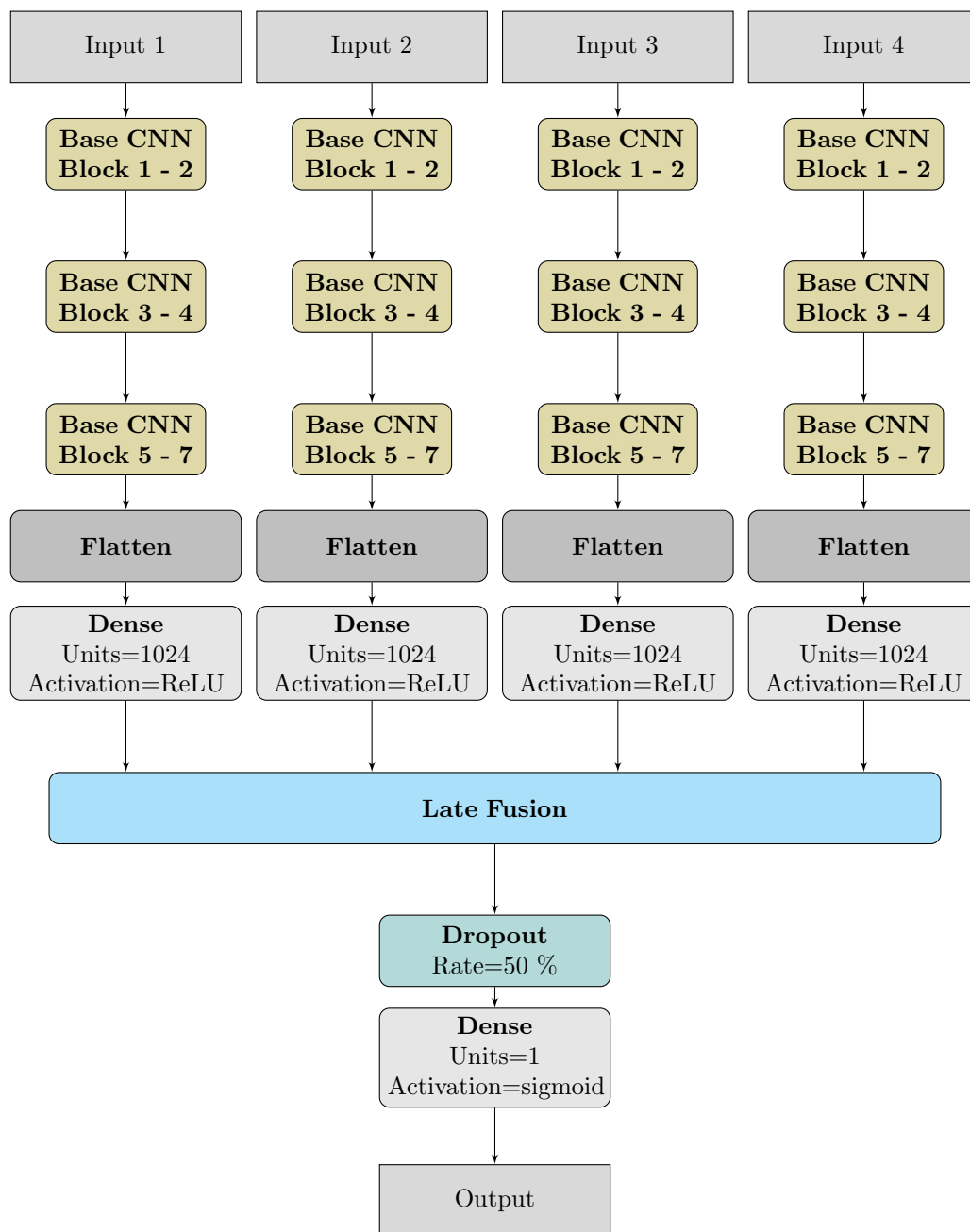Figure 3: Visualization of the CNN approach: **Early Fusion Multi-View CNN**

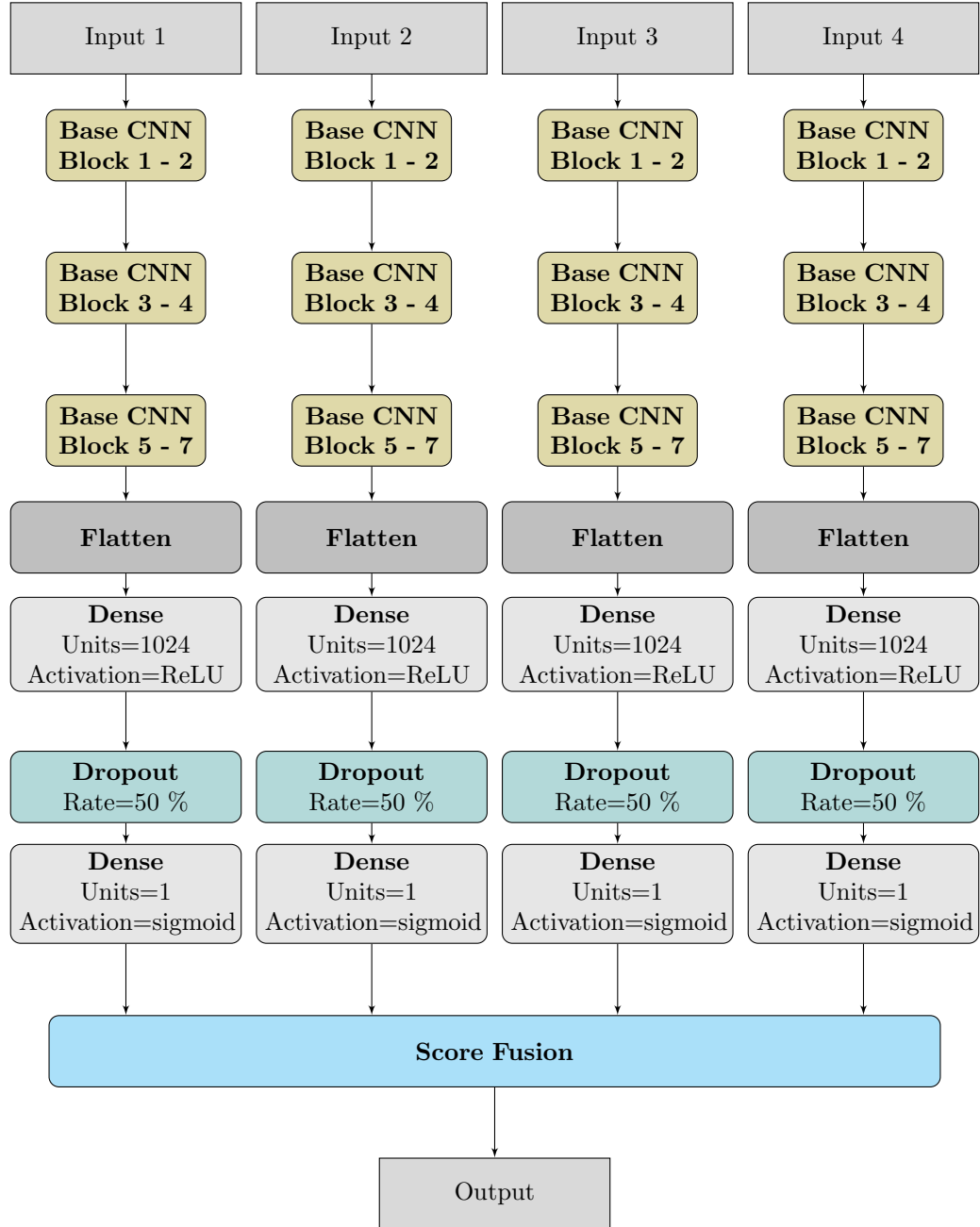Figure 4: Visualization of the CNN approach: **Late Fusion Multi-View CNN**

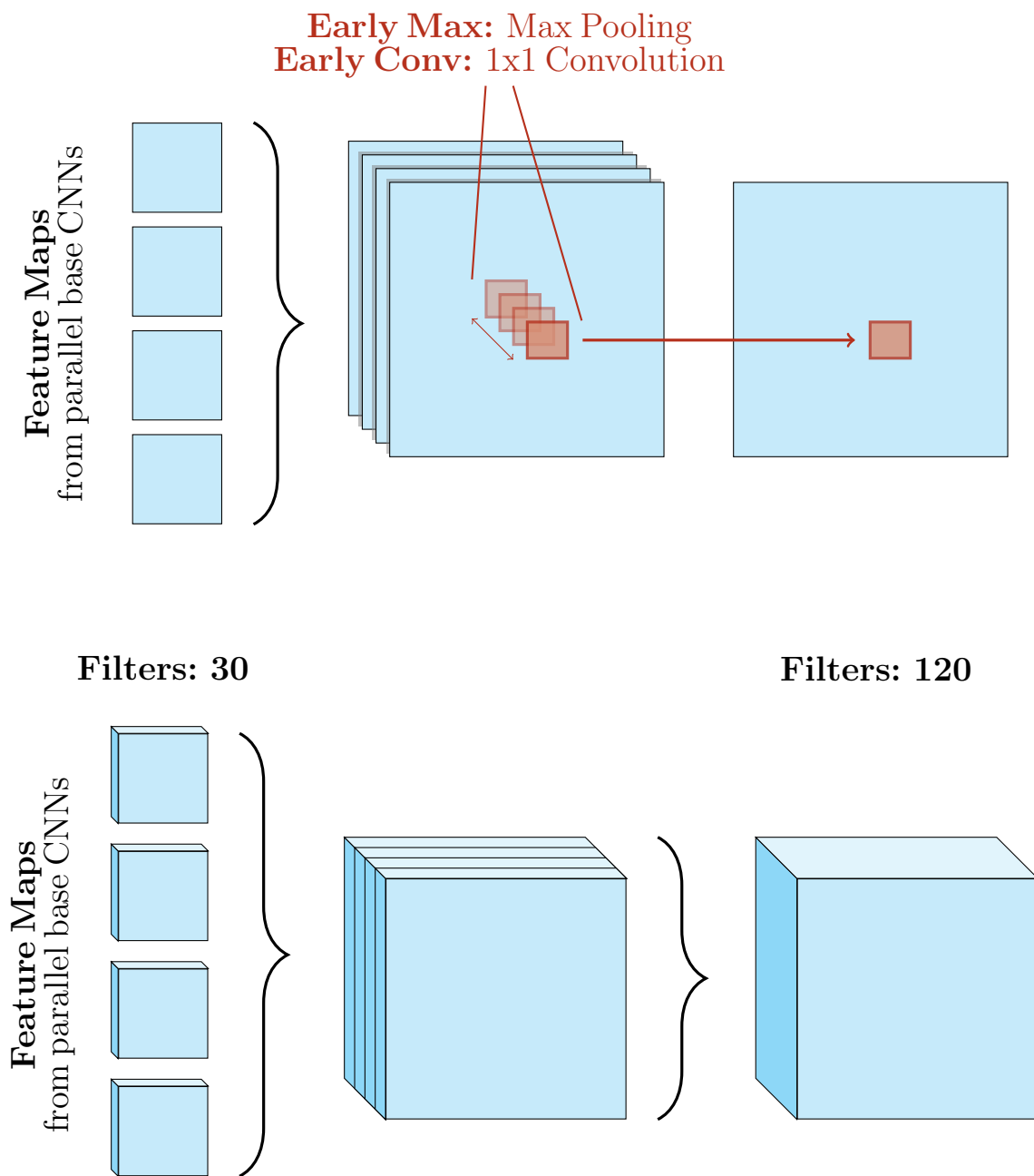Figure 5: Visualization of the CNN approach: **Score Fusion Multi-View CNN**

Figure 6: Visualization of the CNN approach: Fusion methods: **Early Max** and **Early Conv** *(top)* and **Early Concat** *(bottom)*
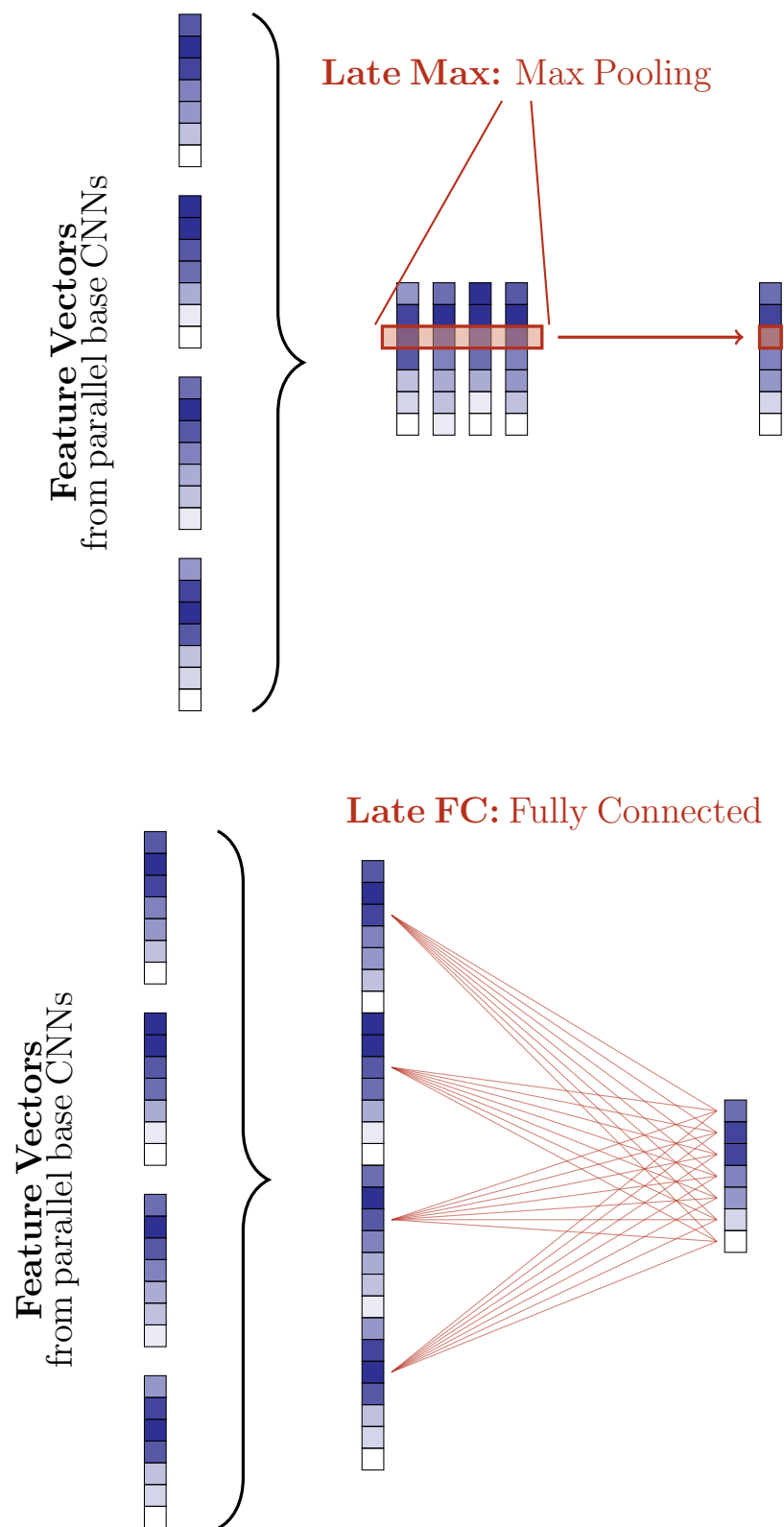
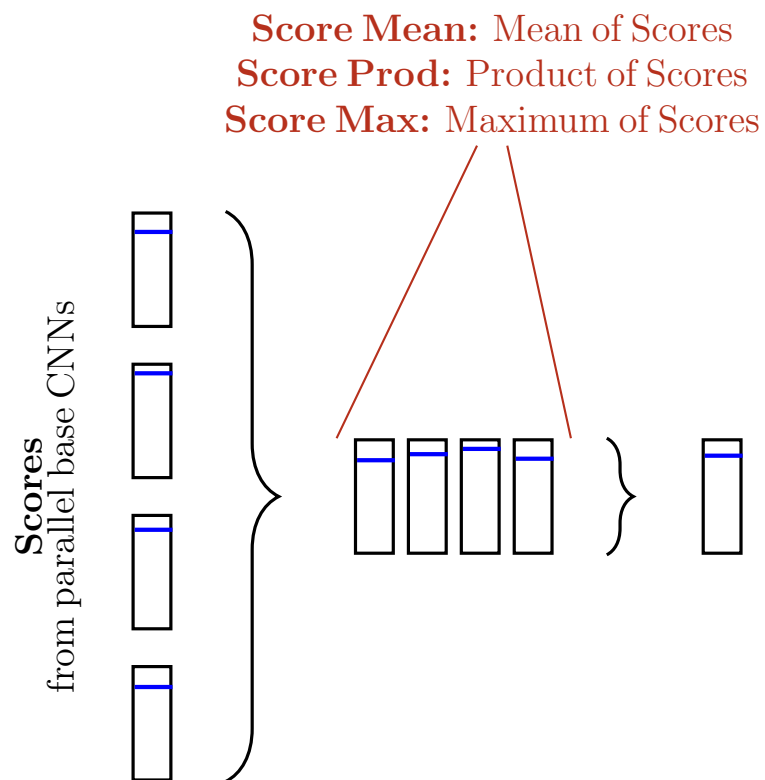Figure 7: Visualization of the CNN approach: Fusion methods: **Late Max** *(top)* and **Late FC** *(bottom)*

Figure 8: Visualization of the CNN approach: Fusion methods: **Score Mean**, **Score Prod** and **Score Max**.