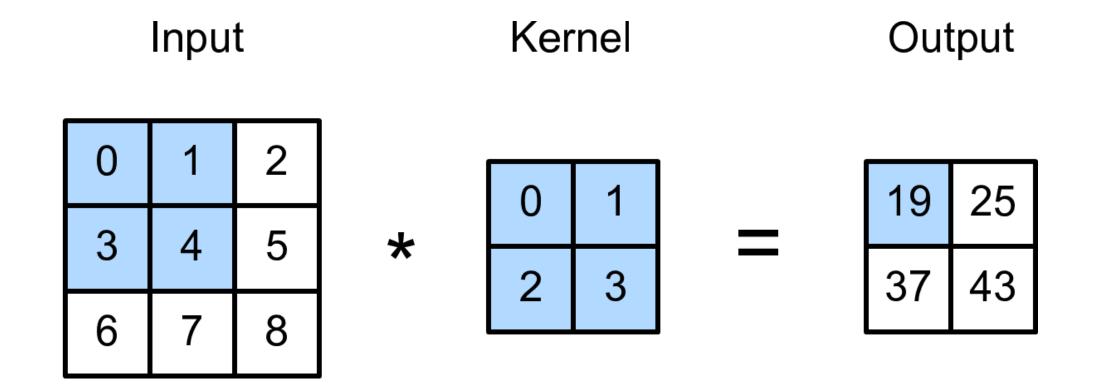
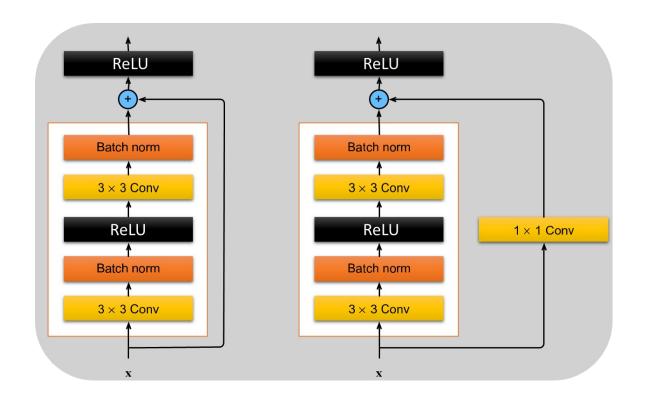
## CHAPTER 5

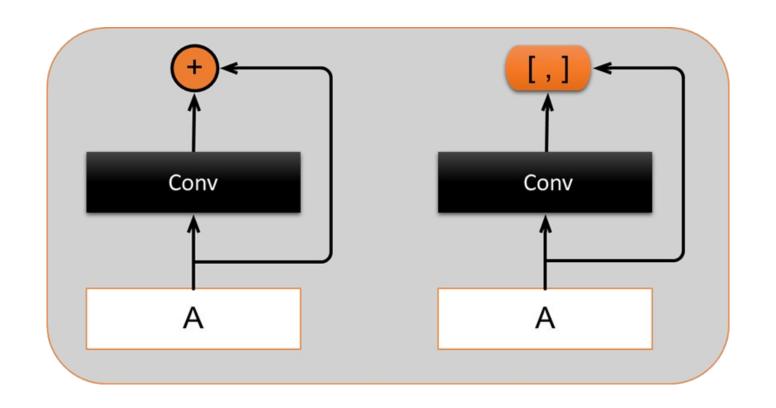
Supervised Deep Learning for Secure Internet of Things



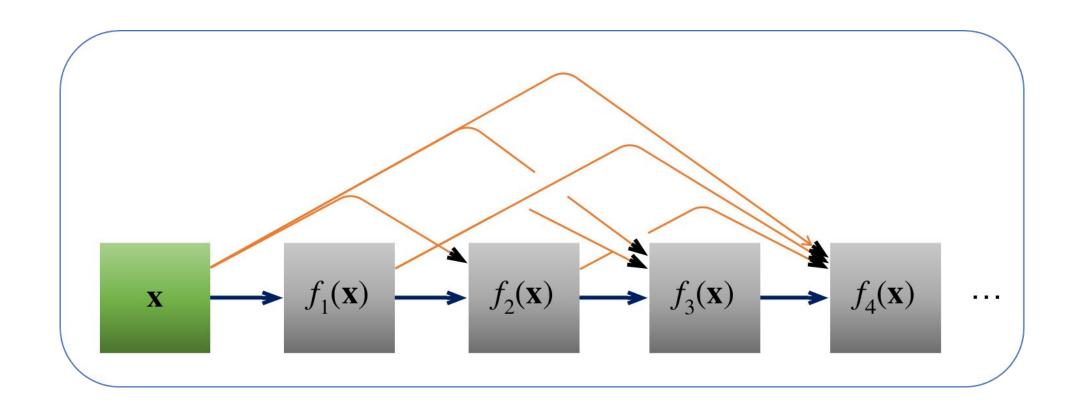
#### CONVOLUTIONAL NEURAL NETWORK



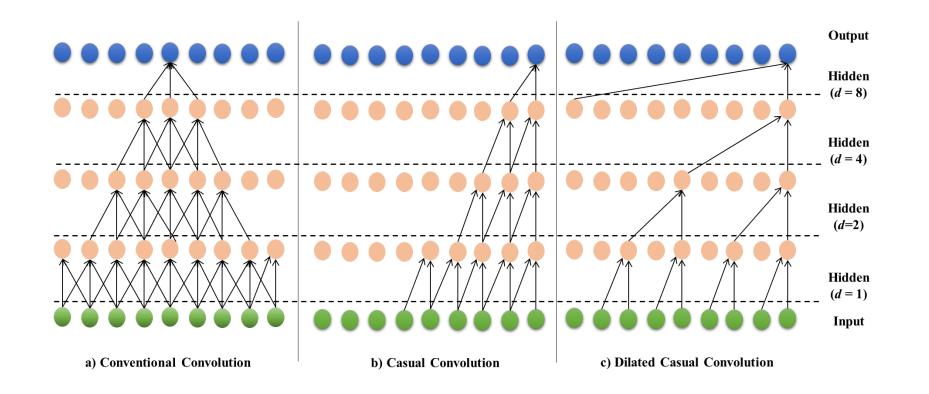
# ADVANCED CONVOLUTIONAL NEURAL NETWORK



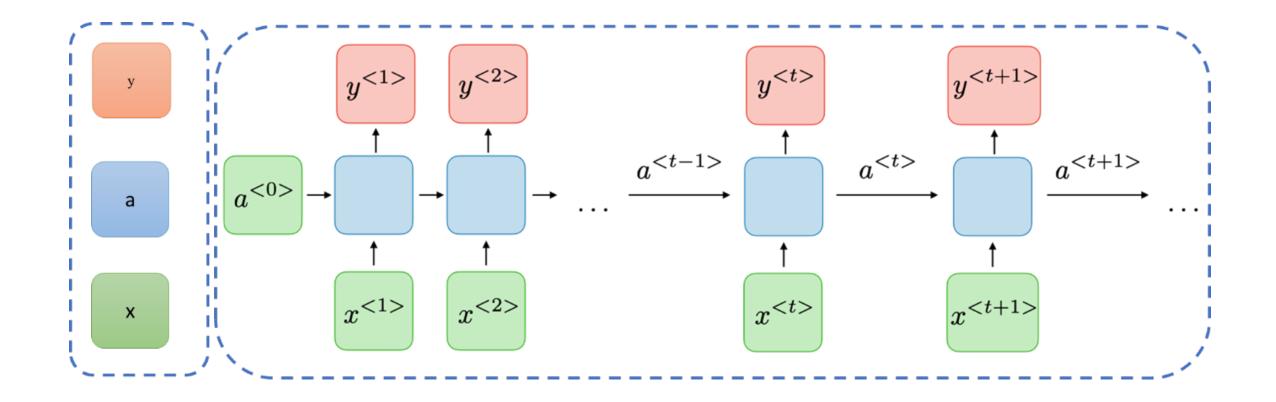
## ADVANCED CONVOLUTIONAL NEURAL NETWORK

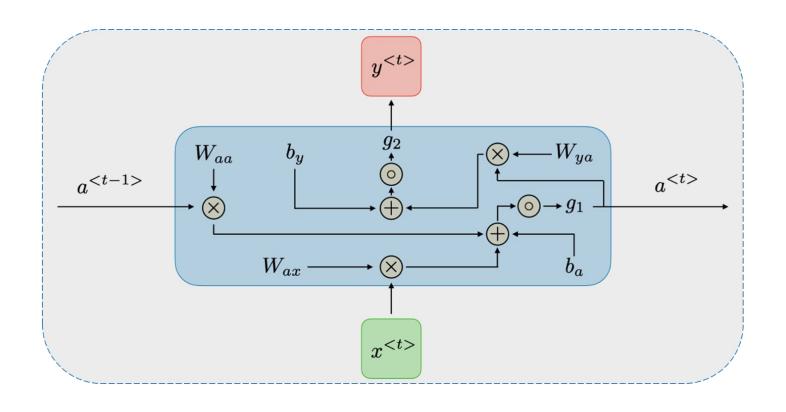


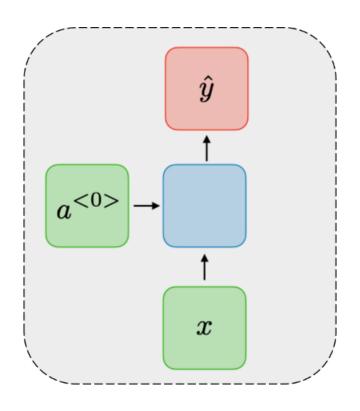
# ADVANCED CONVOLUTIONAL NEURAL NETWORK

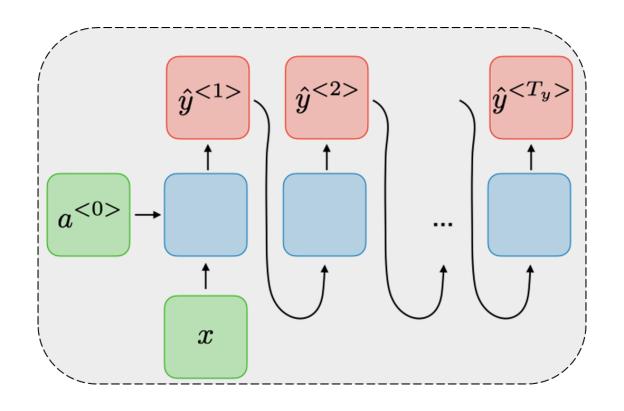


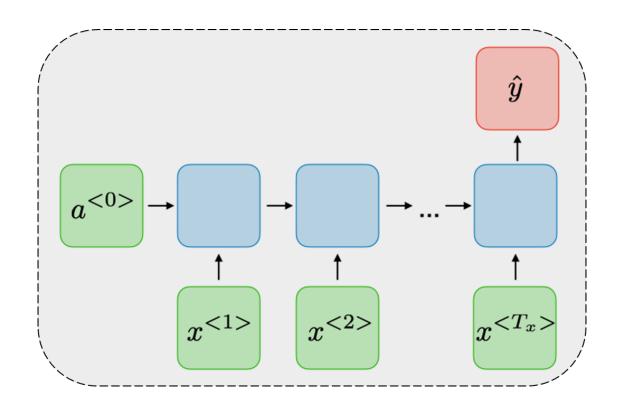
# TEMPORAL CONVOLUTIONAL NEURAL NETWORK

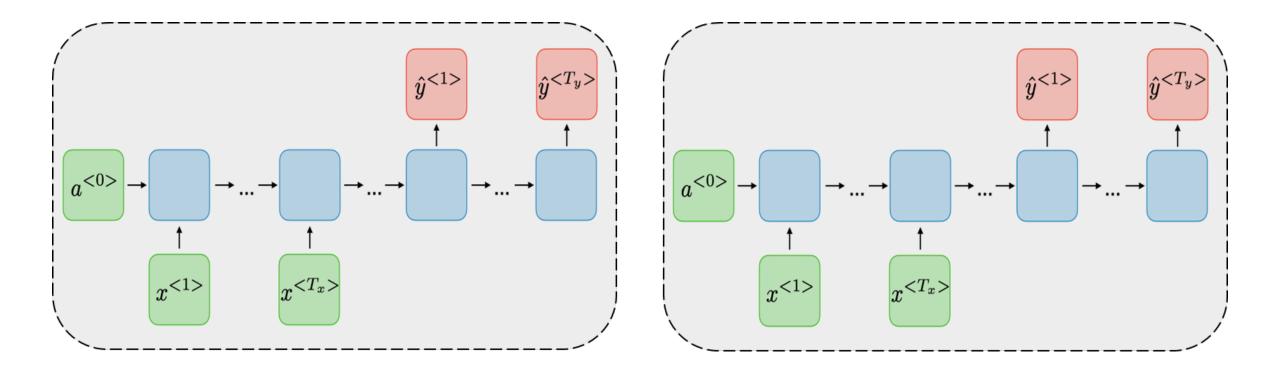


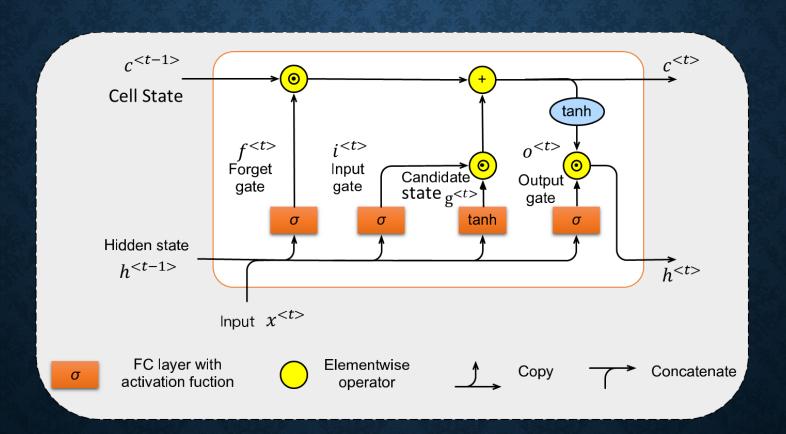


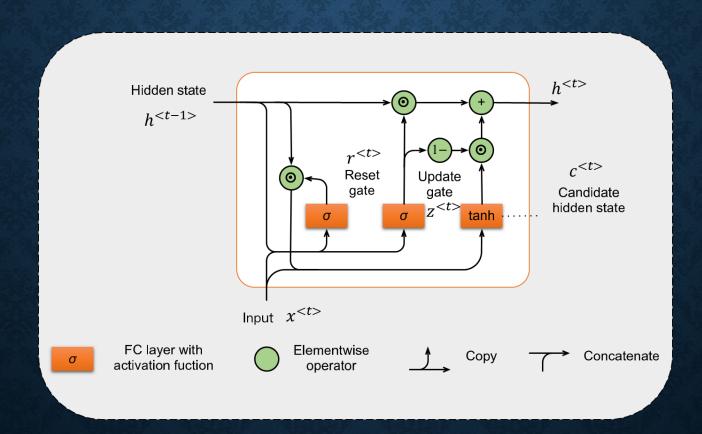




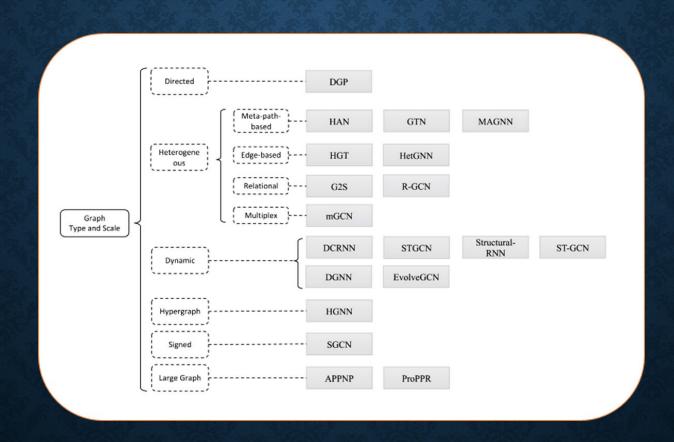








#### GRAPH NEURAL NETWORKS



SUPERVISED
DATASETS
AND
EVALUATION
MEASURES

**KDD Cup99 Dataset** 

**NSL-KDD Dataset** 

**UNSW-NB15** Dataset

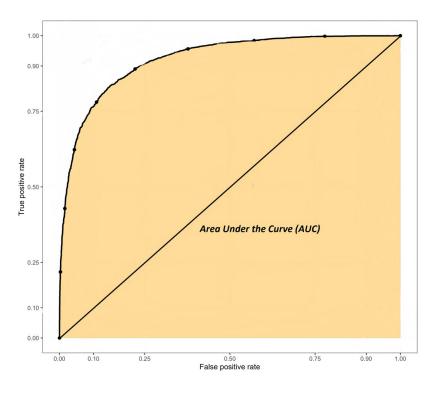
**UGR'16 Dataset** 

**DDoS 2016 Dataset** 

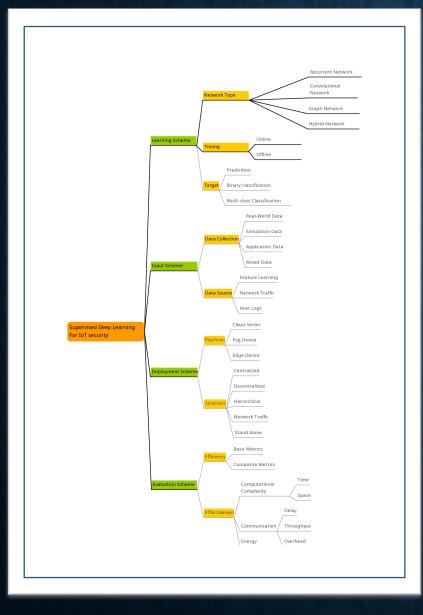
**CICIDS 2017 Dataset** 

		Actual	
		Normal	Attack
Predicted	Normal	True Positive (TP)	False Negative (FN)
	Attack	False Positive (FP)	True Negative (TN)

# SUPERVISED DATASETS AND EVALUATION MEASURES



# SUPERVISED DATASETS AND EVALUATION MEASURES



# TAXONOMY OF DEEP LEARNING SOLUTIONS FOR IOT