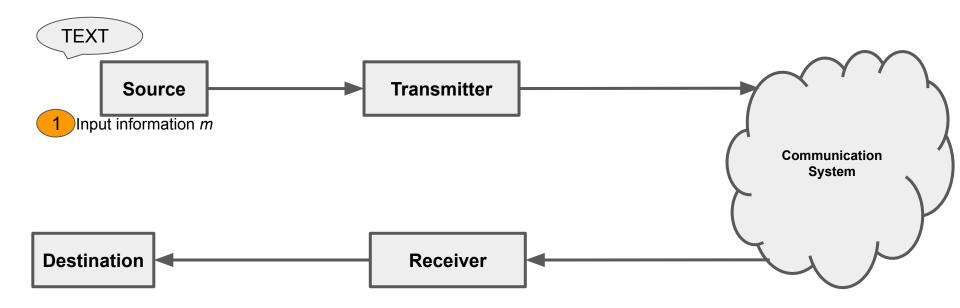
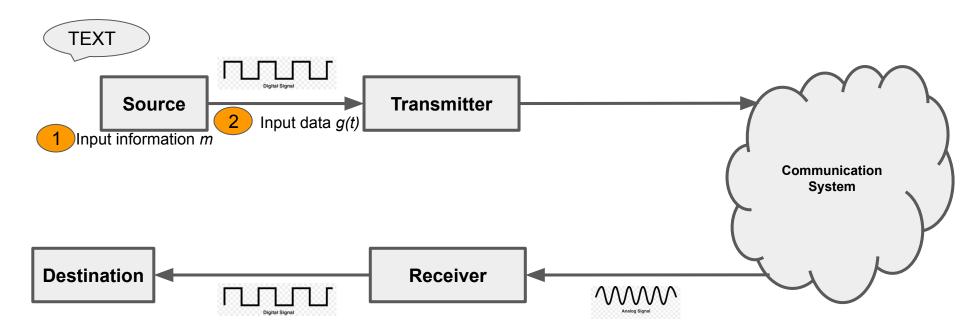
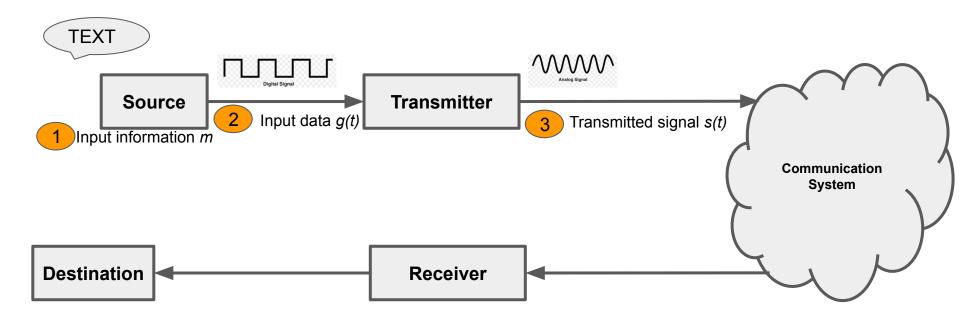
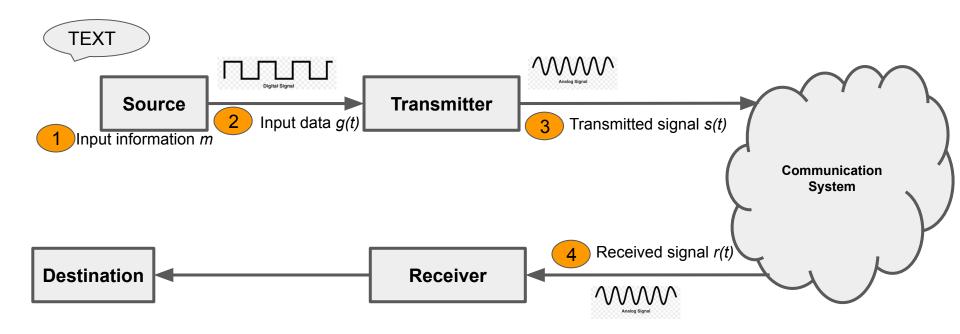
# IT -305 Data Communication

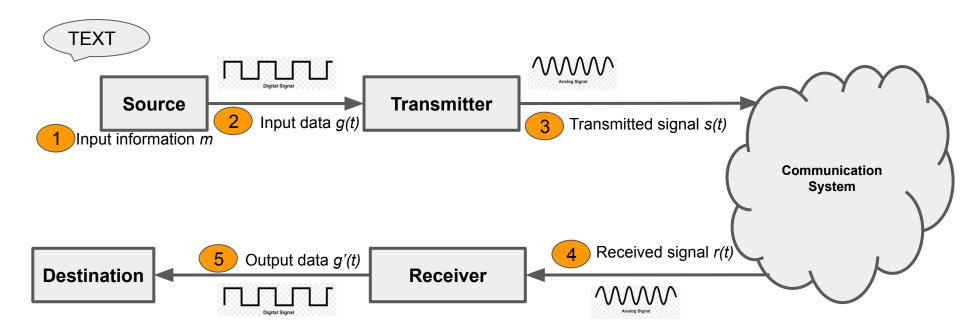
Bernard Nongpoh
Guest Faculty

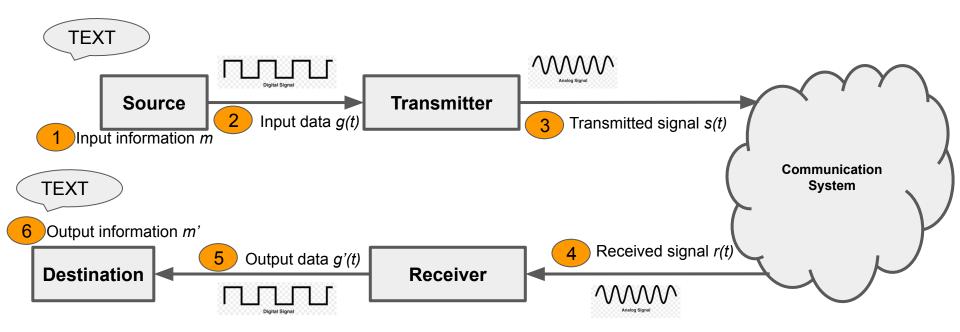












# **Data Communication Model Transmission medium**

## **Data Communication Model** 010101110011101101001 m hello **Memory** g(t) s(t) **Transmission medium**

#### **Data Communication Model** 010101110011101101001 0.0 m hello **Memory g**'(t) g(t) **Number of Impairments** s(t) r(t) **Transmission medium**

#### **Data Communication Model** m' 010101110011101101001 **O**+O m hello hello **Memory Memory g**'(t) g(t) **Number of Impairments** s(t) r(t) **Transmission medium**

#### Source



 The source system must either activate the direct data communication path or inform the communication network of the identity of the desired destination system.

#### Source



#### **Destination**

- The source system must either activate the direct data communication path or inform the communication network of the identity of the desired destination system.
- The source system must ascertain that the destination system is prepared to receive data.
- The file transfer application on the source system must ascertain that the file management program on the destination system is prepared to accept and store the file for this particular user.
- If the file formats used on the two systems are different, one or the other system must perform a format translation function.

#### Source



#### **Destination**

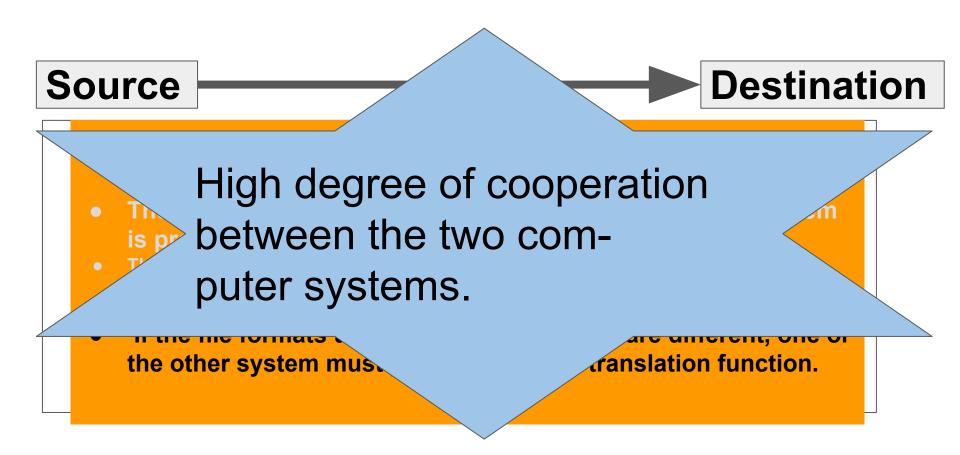
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#### Source



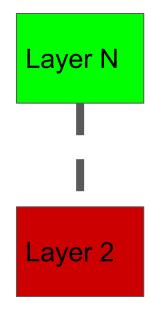
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### Why Protocol?

# Layering



Layer 1