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Purpose of Digital Communications
Transmitter
Channel
Types
Distortion
Types of Distortion
Receiver
Analog vs Digital
Mathematical Models
Linear TimeInvariant
Distortions
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The Big Field
Information Theory
Architecture
Source Coding
Layering
Simple Model
Channel
Fixed Channels
Binary Sequences

White Gaussian Noise

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What were the most interesting findings?

What are the implications for the workplace?

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Shift registers

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Basic Information

What's it About?

What We Will Cover

Full Course

Professional Communications?

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Introduction and content of the module

Wireless revolution

Basics of Wireless

Discrete time representation

The Wireless Channel

Large scale fading: path loss and shadowing

Integrating Large scale and small scale fading

Reminder: Gaussian random variables

Small scale fading

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Convert this Digital Signal Back into an Analog Signal

Sampling
Nyquist's Theorem
Amount of Information Transferred
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Module 7: Cost-Volume-Profit Analysis
Module 8: Budgeting
Module 9: Standard Costs and Variance Analysis
Module 10: Capital Budgeting
Module 11: Performance Measurement
Module 12: Relevant Costs for Decision Making
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Intro
Problem Overview
Conversion Costs
Total Equivalent Units
Cost Per Equivalent Unit
Journal Entry
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as variable costs, fixed costs, mixed costs and more. We also learn to separate the ...
Introduction
Variable Costs
Cost Behavior
Assumptions
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Intro
Example 1 Page 1
Example 2 Page 2
Example 3 Page 3
Example 4 Page 4
Example 5 Page 5
Example 6 Page 6
Example 7 Page 7
Example 8 Page 8
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Historical Costs
Special Orders
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The Path Program
Limited Spectrum
Internet of Things
Shannon Capacity
millimeter wave
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chemical communication
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Reverse engineering
Wrap up
Best wishes
General networks
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Intro
What is an Antenna
How does an Antenna Produce Radio Waves
How does a Cell Tower Produce Radio Waves
How Does a Cell Tower Know Where the Cell Tower is
How Does Wireless Communication Work
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Basics of Antennas
Radiating Elements
Spatial Division Multiple Access
Phased Array
Hybrid Beam Forming
Polarization
Section 7
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Wireless Design
Adaptability of MI Models
Supervised Learning
Model Communication Channels
Neurochannel Models
Generative Modeling
Rf Sensing
Active Positioning
Passive Positioning
How Does this Positioning Work
Channel Impulse Response
Rf Fingerprinting
Results in a 3d Ray Tracing Simulation
Use Cases
Results in the First Office Environment
Zone Classification
Conclusion
Questions
How Do You Decide Where To Insert Neural Networks Introduced into Traditional Wireless Algorithms and Which Sort of Problems Are Best Suited for Machine Learning
5g Channel Estimations
What Are some Innovations That You Expect To See in the Future
Neural Channel Models
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Introduction
Wireless Telecommunications
Wireless Technologies
First Generation
Analog Signal

Digital Signal
GSM
GPRS
UMTS
CDMA
WGME
Everything You Need to Know About 5G - Everything You Need to Know About 5G by IEEE Spectrum 2,678,365 views 7 years ago 6 minutes, 15 seconds - Today's **mobile**, users want faster data speeds and more reliable service. The next generation of **wireless**, ...
Intro
millimeter waves
small cell networks
Massive MIMO
Beamforming
Full Duplex
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Start
Introduction : What is Ultra-wideband?
Different Wireless Communication Technologies
Comparison
Applications of UWB Wireless Communication
Industrial Applications of UWB
Applications of UWB in Mobile Communication Devices
Utilization of UWB in 'Find My' application in AirPods Pro
UWB Distance Measurement Application - Theory
Two important documents - Datasheet and AT commands Guide
Datasheet Overview
AT Commands Guide Overview
AT Commands - Important steps
UWB Network Structure Diagram
RYUW122 Module AT command circuit assembly
AT commands in detail
Demo: RYUW122 module AT commands configuration
DIY Project - Distance Measurement Application
Circuit Diagram of the Project
Code of the Project
Demo - Assembly for the project(Distance Measurement)
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Three Vignettes
Rethinking Cellular System Design
Defining a coding scheme
Encoding and Decoding
Summary of approach
Chemical Communications
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Introduction
Welcome
Wireless Communication
Challenges
Internet of Things
Shannon Capacity
Higher Data Rates
Massive MIMO
The Dynamic Duo
Other New Flyin MAC Techniques
ML in Wireless
Cellular System Design
Cellular Coverage
Small Cells
WiFi
Multiple Access
All Wireless Networks
Algorithmic Complexity
Fog Optimization
Green Cellular Networks
Energy Harvesting
Chemical Communications
Applications
Brain as a Communication Network
Directed Mutual Information
Conclusion
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Intro
Envisioning an xG Network
Challenges: Licensed Airwaves are "Full"
Other Wireless Challenges
Enablers for increasing Data Rates and Performance in Next-Generation Networks
Machine Learning for PHY Design
ML in PHY layer design?
Why Deep Learning Detectors?
Deep Learning Detectors for Communication
Sequence Detection: RNNS
Evaluating the Deep Learning Approach
Poisson Channel Model
System Response Changes with Time The system response (0) can change over time

Performance Comparison

Experimental Setup

Why deep learning for joint source-channel coding? Many communication systems may benefit from designing the source channel codes jointly

Summary of ML in Joint S/C Coding Deep learning can be used for joint source channel coding of

Concluding Remarks .5G networks must support higher performance for some users and low power and rates for others

"The Future of Wireless and What It Will Enable" with Andrea Goldsmith - "The Future of Wireless and What It Will Enable" with Andrea Goldsmith by Association for Computing Machinery (ACM) 2,690 views 4 years ago 1 hour, 2 minutes - Title: The Future of **Wireless**, and What It Will Enable Speakers: **Andrea Goldsmith**, Date: 4/3/19 Abstract **Wireless**, technology has ...

The future of **wireless**, and what it will enable **Andrea**, ...

Future Wireless Networks Ubiquitous Communication Among people and Devices

On the horizon, the Internet of Things

What is the Internet of Things

Enablers for increasing Wireless Data Rates in 5G networks

mm Wave Massive MIMO

Rethinking Cellular System Design

Software-Defined Wireless Network

"Green" Cellular Networks for the IoT

Chemical Communications

Current Work

Small cells are the solution to increasing cellular system capacity In theory, provide exponential capacity gain

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Future Cell Phones Burden for this performance is on the backbone network

Careful what you wish for...

On the Horizon: "The Internet of Things"

Rethinking "Cells" in Cellular

Massive MIMO

How should antennas be used? • Use antennas for multiplexing

MIMO in Wireless Networks

The Future Cellular Network: Hierarchical

SON Premise and Architecture Mobile Gateway

Self-Healing Capabilities of SON

Green Cellular Networks

Software-Defined (SD) Radio: Is this the solution to the device challenges?

Benefits of Sub-Nyquist Sampling

Future Wifi: Multimedia Everywhere, Without Wires

Cloud-based SoN-for-WiFi

Distributed Control over Wireless

Brice Lecture 2019 – Dr. Andrea Goldsmith, What's Beyond 5G? - Brice Lecture 2019 – Dr. Andrea Goldsmith, What's Beyond 5G? by Rice U ECE 1,491 views 3 years ago 1 hour, 12 minutes - Future **wireless**, networks will support 100 Gbps **communication**, between people, devices, and the "Internet of Things," with high ...

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What is the Internet of Things

Are we at the Shannon capacity of wireless systems? We don't know the Shannon capacity of most wireless channels • Channels without models: molecular, mmW, THz • Time-varying channels.

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New PHY and MAC Techniques

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Fitting a Parallelepiped --- Algorithms

Runtime Performance

AWGN and Fading Performance
ML in PHY layer design
BER for Poisson/Molecular
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Chemical Communications
Neuronal Signaling • Communication done through action potentials (spikes)
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Intro
Frequency
Antenna size
Higher frequencies
Time domain and frequency domain
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Future Wireless Networks
Careful what you wish for...
Two camps in the "real world"
Shannon theory more relevant today than ever before
Key to good theory, ask the right question
A Pessimist's View
Bridging Theory and Practice How might Shannon theory impact real system design
Ad-hoc Network Capacity: What is it?
Encoding and Decoding Techniques • Superposition coding: - Superimpose codebook of one user onto another's codebook • Gelfand Pinsker binning
Defining a coding scheme
Typical Capacity Approach
Example: Cognitive Radio Rate-split/binning encoding scheme
Achievable Rate Region
Analysis gets complicated fast (Cognitive radio with strong interference: Rini/AG) Encoding entails superposition, binning, broadcasting, rote splitting
Is there a better way?
Original System Model
Enhanced System Model
Graphical representation of coding
Error events and reliable decoding
Summary of approach
Why I did a startup
Lessons Learned
Theory vs. practice
Backing off from infinity
Backing off from: infinite sampling
Capacity under Sampling w/Prefilter
Filter Bank Sampling
Minimax Universal Sampling
Benefits of Sub-Nyquist-rate sampling
Source Coding and Sampling
Main Results
Properties of the Solution
Capacity and Feedback
The next frontier
Expanding our horizons

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