2020 데이터 사이언스 위크샵 프로그램

Session 0: Opening and Introductory Session

Introduction

Session 1: Statistical Inference & Data Exploration

13:00-14:00
- Statistical Inference & Data Exploration
  - [Title] Introduction to statistical inference
  - [Title] Data exploration techniques

15:00-16:00
- Statistical Inference & Data Exploration
  - [Title] Hypothesis testing
  - [Title] Data visualization techniques

Session 2: Understanding and Analyzing Genomic Data

13:00-14:00
- Genomic Data Analysis I
  - [Title] Introduction to genomic data
  - [Title] Genome annotation & analysis

15:00-16:00
- Genomic Data Analysis II
  - [Title] Comparative genomics
  - [Title] Transcriptomics

Session 3: Introduction to Machine Learning and Deep Learning

13:00-14:00
- Machine Learning
  - [Title] Introduction to machine learning
  - [Title] Supervised learning

15:00-16:00
- Deep Learning
  - [Title] Convolutional Neural Networks
  - [Title] Recurrent Neural Networks

Session 4: Specialized Topics

13:00-14:00
- Specialized Topic I
  - [Title] Data visualization techniques
  - [Title] Web scraping

15:00-16:00
- Specialized Topic II
  - [Title] Advanced deep learning techniques
  - [Title] Reinforcement learning

Session 5: Real World Data Based Deep Learning

13:00-14:00
- Real World Data Based Deep Learning
  - [Title] Natural language processing
  - [Title] Computer vision

15:00-16:00
- Real World Data Based Deep Learning
  - [Title] Medical image analysis
  - [Title] Financial data analysis

Digital Healthcare Data Based Deep Learning

13:00-14:00
- Digital Healthcare Data Based Deep Learning
  - [Title] Electronic health records
  - [Title] Wearable devices

15:00-16:00
- Digital Healthcare Data Based Deep Learning
  - [Title] Telemedicine
  - [Title] Personalized medicine