

2019 NCTS Workshop on Scientific Computing and Machine Learning

Date 2019/12/28 **Venue** R202, Astro-Math Bldg.

Aim & Scope:

We are in an era that experiences the explosion of data. The amount of data and available computing power has resulted in many exciting advancements of machine learning algorithms and applications. However, there are still many essential questions left unanswered. How do we harvest a large amount of available data to extract knowledge and insights? Particularly the cases in which one can generate the data by scientific computing algorithms that can simulate to great accuracy some systems that abide by known physical laws? How can mathematical theory and scientific computing insights help explain or design new ways to uncover information from data?

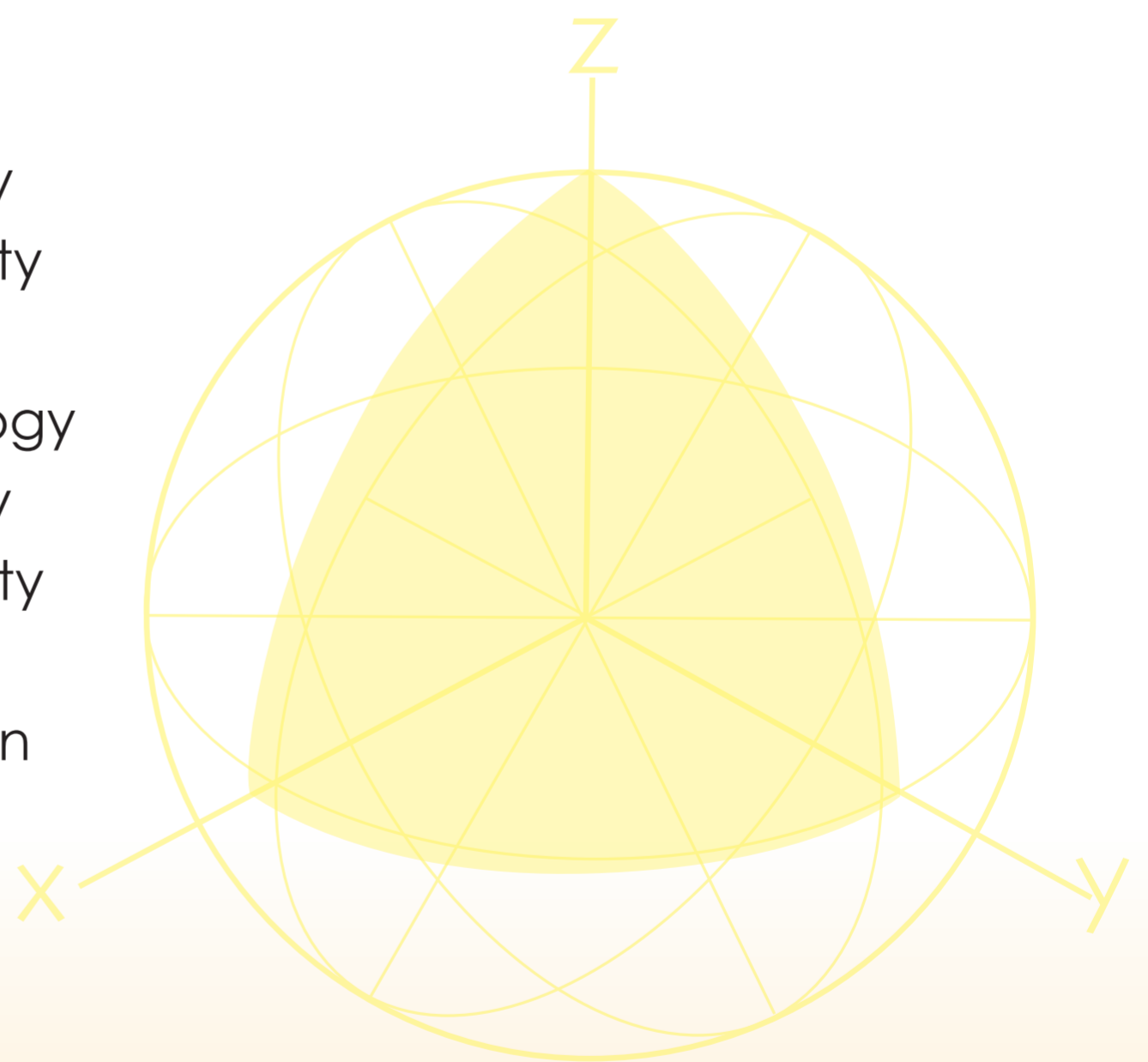
In this workshop, we have speakers from the fields of applied mathematics, scientific computing, and machine learning, presenting their latest research. The objective is two-fold: discover how state-of-the-art machine learning framework and algorithms can enable the advancement of scientific computing, and how scientific computing techniques can improve and generalize machine learning models and computation.

Invited Speakers:

Chih-Wei Chen	National Sun Yat-sen University
Ray-Bing Chen	National Cheng Kung University
Albert Chern	Technische Universität Berlin
Thomas Hou	California Institute of Technology
Yuh-Jye Lee	National Chiao Tung University
Guan-Ju Peng	National Chung Hsing University
Pei-Chiang Shao	Soochow University
Richard Tsai	The University of Texas at Austin

Organizers:

I-Liang Chern	National Taiwan University
Jann-Long Chern	National Central University
Thomas Hou	California Institute of Technology
Ming-Chih Lai	National Chiao Tung University
Suh-Yuh Yang	National Central University
Mei-Heng Yueh	National Taiwan Normal University



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