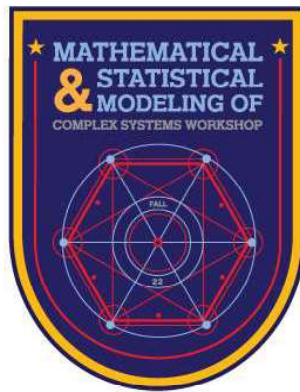
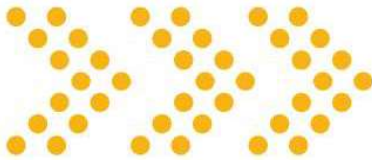


# MATHEMATICAL & STATISTICAL MODELING OF COMPLEX SYSTEMS WORKSHOP

EARN THE



BADGE



Earn another badge on November 14 & 15!

Don't miss the 2022 NEIU Math Modeling Workshop!

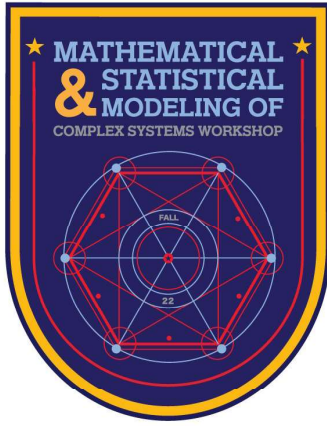
With sessions spanning over 2 days, there's plenty of time to earn credit!

20<sup>th</sup>

MATHEMATICAL  
& STATISTICAL  
MODELING OF  
COMPLEX SYSTEMS WORKSHOP

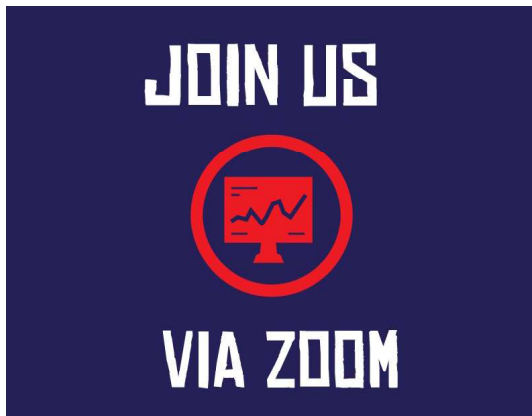
We can't wait to see you for the 10 year celebration of NEIU's Math Modeling Workshops! This year's sessions showcase how mathematics, logic, and statistics are modeled and applied to real world issues in industry, economics, health, and cancer.

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## Earn the 2022 Math Modeling Workshop Challenge Badge!

Attend 5 sessions either in person or online via Zoom on Nov. 14th or 15th to earn the NEIU Center of Health 2022 Mathematical & Statistical Modeling of Complex Systems Workshop Challenge Badge! Boost your skills and show it off to others by posting the badge on your social media, resume, & LinkedIn page!



# WORKSHOP SCHEDULE



# NOVEMBER 14, 2022

## WHERE

NEIU MAIN CAMPUS: **SU 214**  
+ ONLINE VIA ZOOM: ★SEE EMAIL★

**9:00 A.M.** **Opening & Welcome:** *NEIU Center of Health & NEIU Mathematics Department*

**9:15 A.M.** **What drives mental health? Exploring its lifestyle, demographic and socio-economic factors:** *Dawid Majcherek, Arkadiusz Michał Kowalski and Małgorzata Stefania Lewandowska (SGH Warsaw School of Economics, Poland)*

**9:45 A.M.** **Impact of COVID-19 Pandemic on Foreign Direct Investment – The World Perspective :** *Tomasz Napiórkowski (SGH Warsaw School of Economics, Poland)*

**10:15 A.M.** **Organizational e-Health Readiness: How to Prepare the Primary Healthcare Providers' Services for Digital Transformation:** *Tomasz Napiórkowski (SGH, Poland) & Agnieszka Kruszyńska-Fischbach (Warsaw University of Technology, Poland)*

**10:45 A.M.** **Assessment of Horizon 2020 Health, Demographic Change and Wellbeing projects with the focus on digital innovation (Conceptual framework, preliminary data):** *Małgorzata Lewandowska, and Arkadiusz Kowalski (SGH Warsaw School of Economics, Poland)*

**11:15 A.M.** **Mapping research on digital innovation in healthcare. A bibliometric approach:** *Marzenna Anna Weresa (SGH) & Scott Hagerty (NEIU)*

**11:45 A.M.** **Cost reduction tendency and collaboration agreements in supply chain asymmetric relationships:** *Derek Alcivar, Esteban Acosta, Arhai Martínez, María Fernanda Silva and Joyce Solis (Universidad San Francisco de Quito, Ecuador)*

★ **12:15 P.M.** **Lunch:** *Catered Box*

★ **1:30 P.M.** **Hands-on Lab Experience\* Clustering Algorithms in R: Modeling Mortality in the European Union:** *Dawid Majcherek (SGH, Poland)*

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# NOVEMBER 15, 2022

## WHERE

NEIU MAIN CAMPUS: **88H 102**  
+ ONLINE VIA ZOOM: ★SEE EMAIL★

- 9:00 A.M.** Innovation Performance, Healthcare and Pharmaceutical Industry – International Comparative Analysis of China and the Triad Economies: *Arkadiusz Michał Kowalski (SGH Warsaw School of Economics, Poland)*
- 9:30 A.M.** Precious metals in stock portfolio optimization on the Warsaw Stock Exchange: *Izabela Pruchnicka-Grabias (SGH Warsaw School of Economics, Poland)*
- 10:00 A.M.** New 2-parameter families of advanced forecasting functions: non-seasonal models and application stock market data: *Nabil Kahouadji (NEIU, USA)*
- 10:45 A.M.** Translation of artificial intelligence into auditors' risk assessments. A sociomaterial self-affordance analysis: *Anna Szelagowska (SGH, Poland)*
- 11:30 A.M.** Nonlinear Dynamics of Tumor-Immune Interaction: An Analysis of Tumor Regrowth from its Dormant State: *Alba Susana Core Bianchi (NEIU, USA)*
- ★ **12:00 P.M.** Lunch: *Catered Box*
- ★ **1:30 P.M.** Hands-on Lab Experience\* Self-Affordance Analysis: Translating artificial intelligence into Auditors' Risk Assessment: *Anna Szelagowska (SGH, Poland)*
- ★ **2:30 P.M.** Closing Remarks: *NEIU Center of Health & NEIU Mathematics Department*

★ **IN PERSON ONLY EVENTS: NO ZOOM ACCESS**

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This event is made possible by an international collaborative effort and partnership of:

