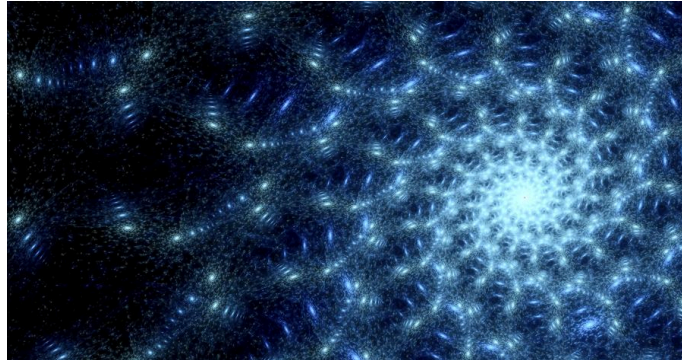


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## THE FOURTH INTERNATIONAL CONFERENCE ON MATHEMATICS AND STATISTICS

ICMS25 / February 20, 2025 to February 22, 2025



- **Algebraic Topology and Applications**
  - Organizer:
    - Sadok Kallel, American University of Sharjah, UAE
- **Applied and Computational Analysis**
  - Organizers:
    - Amjad Tuffaha, American University of Sharjah, UAE
    - Edriss Titi, University of Cambridge, UK
- **Coding Theory, Cryptography and Applications**
  - Organizers:
    - Taher Abualrub, American University of Sharjah, UAE
    - Selcuk Aygin, American University of Sharjah, UAE
- **History of Mathematics**
  - Organizers:
    - Saadia Khouyibaba, American University of Sharjah, UAE
    - Daniele Struppa, Chapman University, USA
- **Mathematics Education**
  - Organizers:
    - Saadia Khouyibaba, American University of Sharjah, UAE
    - Jason Johnson, Emirates College for Advanced Education, UAE
- **Modeling and Simulation of Biological Systems**
  - Organizers:
    - Abdul Salam Jarrah, American University of Sharjah, UAE
    - Filippo Castiglione, Technology Innovation Institute, UAE
    - Abdessamad Tridane, United Arab Emirates University, UAE
- **Operator Theory and Harmonic Analysis**
  - Organizers:
    - Issam Louhichi, American University of Sharjah, UAE
    - Alexey Karapetyants, Southern Federal University, Russia
- **Recent Advances in Differential Equations and Dynamical Systems**
  - Organizers:
    - Abdul Salam Jarrah, American University of Sharjah, UAE
    - Valery Romanovski, University of Maribor, Slovenia
- **Rings, Monoids, Module Theory and Graphs from Rings**
  - Organizer:
    - Ayman Badawi, American University of Sharjah, UAE
- **Statistical Learning and Data Science**
  - Organizers:
    - Ayman Alzaatreh, American University of Sharjah, UAE
    - Luai Al-Labadi, University of Toronto Mississauga, Canada
- **Statistics and Data Science for Digital Finance on Tokenomics**
  - Organizers:
    - Stephen Chan, American University of Sharjah, UAE
    - Jeffrey Chu, Renmin University of China, China
    - Jörg Robert Osterrieder, Bern University of Applied Sciences, Switzerland, **Coordinator MSCA Industrial Doctoral Network on Digital Finance**

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**DAY 2: February 21, 2025**

<b>Special Session C: Statistics and Data Science for Digital Finance on Tokenomics (SS9)</b>			
<b>Friday February 21</b>			
<b>Chair: Stephen Chan/ Jeffrey Chu</b>			
<b>Room: NAB006</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30 - 10:50	1108	Digital Assets in War - A Double-Edged Sword	Jeffrey Chu
10:50 - 11:10	1107	Stylized Facts of Metaverse Non-Fungible Tokens	Durga Chandrashekhar
11:10 - 11:30	1203	Ethereum Blockchain Analytics: What We Learn on Token Price from Geometric Deep Learning Models	Yuzhou Chen
11:30 - 11:50	1109	Reaction Times to Economic News in High-Frequency Trading: An Analysis of Latency and Informed Trading Ahead of Macro-News Announcements	Joerg Osterrieder
11:50 - 12:10	1074	Predicting Financial Trends Using Text Mining and NLP	Fulvio Raddi

<b>Special Session C: Algebraic Topology (SS1)</b>			
<b>Chair: Pavle Blagojevic</b>			
<b>Friday February 21</b>			
<b>Room: CHM227</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30 - 11:20	1253	Applications of Homotopy Theory in Physics	Hisham Sati
11:30 - 12:20	1230	Homotopy Theory for Topological Quantum Computing	Urs Schreiber

<b>Special Session C: Applied and Computational Analysis (SS2)</b>			
<b>Friday February 21</b>			
<b>Chair: Edriss Titi</b>			
<b>Room: CHM225</b>			
<b>Time</b>	<b>ID</b>	<b>Title</b>	<b>Speaker</b>
10:30 - 11:10	1258	Enhancing Red Sea Forecasting: Integrating Data Assimilation, Uncertainty Quantification, and Artificial Intelligence	Ibrahim Hoteit
11:10 - 11:50	1270	On the desingularization of time-periodic vortex motion in bounded domains	Zineb Hassainia