Emerging Data Science Methods for Complex Biomedical and Cyber Data

Third Workshop Program

DAY ONE: THURSDAY, MARCH 16, 2023

REGISTRATION AND REFRESHMENTS

8:00 am - 8:45 am GCC Lobby

SESSION 1 Chair: Jie Chen, PhD

8:45 am - 9:15 am Opening Remarks:

Neil MacKinnon, PhD, Provost & Executive VP, AU

Mark Hamrick, PhD, Senior Associate Dean for Research, Medical

College of Georgia, AU

9:15 am - 10:05 am Privacy: Challenges and Road Ahead

James Joshi, PhD, National Science Foundation (SaTC) and University

of Pittsburgh, Pittsburgh, PA

10:05 am - 10:15 am Q & A

10:15 am - 10:30 am Coffee Break GCC Lobby

SESSION 2 Chair: Ahmed Aleroud, PhD

10:30 am - 11:20 am Securing Big Data in the Age of Artificial Intelligence

Murat Kantarcioglu, PhD, University of Texas at Dallas, Dallas, TX

11:20 am - 11:30 am Q & A

11:30 am - 12:20 pm New Methods for Robust Time-Series Mining

Aditya Prakash, PhD, Georgia Institute of Technology, Atlanta, GA

12:20 pm - 12:30 pm Q & A

POSTER SESSION (AND LUNCH) CHAIRS: AHMED ALEROUD, PHD & SANTU GHOSH, PHD

12:30 pm - 2:10 pm GCC Lobby

SESSION 3 Chair: Hongyan Xu, PhD

2:10 pm - 3:00 pm Learning from Data in Single-Cell Transcriptomics

Sandrine Dudoit, PhD, University of California, Berkeley, CA

3:00 pm - 3:10 pm Q & A

3:10 pm - 4:00 pm Ensemble Methods for Testing a Global Null with Applications to

Whole Genome Sequencing Studies

Xihong Lin, PhD, Harvard University, Boston, MA

4:00 pm - 4:10 pm Q & A

4:10 pm - 4:30 pm Coffee Break GCC Lobby

INTEGRATED PANEL DISCUSSION I INTRODUCTION OF THE PANEL LEAER: STEVEN WELDON, MS

4:30 pm - 5:15 pm Panel Discussion

Leader: Doug Miller, MD, Augusta University, Augusta, GA

SOCIAL HOUR & BANQUET The Pinnacle Club

699 Broad Street, 17th Floor

6:00 pm - 6:45 pm Social Hour (Cash bars for drinks)

6:45 pm - 8:45 pm Banquet

Remarks:

Alex Schwarzmann, PhD, Dean, School of Computer and Cyber

Sciences, AU

DAY TWO: FRIDAY, MARCH 17, 2023

REGISTRATION AND REFRESHMENTS

8:00 am – 8:30 am GCC Lobby

SESSION 4 Chair: Jie Chen, PhD

8:30 am - 9:20 am Applications of Machine Learning to Privacy and Security

Gagan Agrawal, PhD, Augusta University, Augusta, GA

9:20 am - 9:30 am Q & A

9:30 am - 10:20 am Privacy, Data Privacy, and Differential Privacy

Xiao-Li Meng, PhD, Harvard University, Cambridge, MA

10:20 am - 10:30 am Q & A

10:30 am - 10:45 am Coffee Break GCC Lobby

FIVE-MINUTE PRESENTATIONS Chair: Steven Weldon, MS

10:45 am - 11:45 am Presentation schedule (details will be onsite)

LUNCH

11:45 am - 12:30 pm GCC Lobby

SESSION 5 Chair: Santu Ghosh, PhD

12:30 pm - 1:20 pm Modeling complex data using Bayesian Local Models

Bani Mallick, PhD, Texas A&M University, College Station, TX

1:20 pm - 1:30 pm Q & A

1:30 pm - 2:20 pm Bayesian Multiset Canonical Correlation Analysis through Laten

Factors

Elizabeth Slate, PhD, Florida State University, Tallahassee, FL

2:20 pm - 2:30 pm Q & A

2:30 pm - 2:45 pm Coffee Break GCC Lobby

INTEGRATED PANEL DISCUSSION II INTRODUCTION OF THE PANEL LEAER: HONGYAN XU, PhD

2:45 pm - 3:30 pm Panel Discussion

Leader: Jennifer Priestley, PhD, Professor Emerita of Statistics and Data Science, Kennesaw State University & Chief Data Officer, Flock

Specialty Finance

AWARDS AND CLOSING REMARKS

3:30 pm – 3:45 pm Poster/Five-Minute Presentation Awards

Workshop Organizing Committee

3:45 pm – 4:00 pm Closing Remarks

Workshop Organizing Committee