North Texas Area Student Conference
Saturday, April 21st, 2018

8:15   Registration: Bolin Science Hall, West Hall

8:45   Opening Session ——— Bolin Science Hall, Bolin 100

Welcome: Dr. Margaret Brown Marsden
Dean, College of Science and Mathematics

Introduction of Keynote Speaker: Dr. Ranette Halverson
Chair, Department of Computer Science

<u>KEYNOTE SPEAKER</u>
Dr. Augustine Fou
Cybersecurity & Ad Fraud Expert

10:00 Break: Refreshments served in Foyer before and after Opening Session

10:15 Session I
A: Bolin 100
B: Bolin 127
C: Bolin 320
  D: Bolin 312
E: Bolin 213
F: Bolin 209

11:40 Session II
A: Bolin 100
B: Bolin 127
C: Bolin 320
D: Bolin 312
E: Bolin 213

1:00   Lunch — Comanche Suites
   Clark Student Center

2:20 Session III
A: Bolin 100
B: Bolin 127
C: Bolin 320
  D: Bolin 312
E: Bolin 213
F: Bolin 209

Session 1A, 1B, 1C, 1D, 1E and 1F   10:15 am to 11:35 am

Session 1A: Bolin 100
- Swornim, Maharjan, Budhachetri — Computer Vision for Artificial Intelligence
- Kinyua, Reynolds, Rhodes, Burros, Peregrino — Pneumatic Robot
- Campbell — 3D Bioprinting: It's a Beautiful Day to Save Lives
- Ellis — Virtual Reality: Your Job's Future

Session 1B: Bolin 127
- Perez — JavaScript Web Technologies in Aeronautics
- Cook — GPS: New Threat or Old Vulnerabilities?
- Trebing — High Performance Computing Meets Modern Medicine
- Jenny — Parking Lot Location with Machine Learning

Session 1C: Bolin 320
- Duhan — How Dark is the Dark Web?
- Hale — Big Data
- Moss, Nikayaramba — Salt Ions Separation Study When Exposed to an Electric Field
- McKissick — More Than Human: Bionic Enhancement of Human Performance

Session 1D: Bolin 312
- Press — Can Parallelism Speedup Quadratic Least Squared Computation
- Khalid — The Invisible Machine of Wall Street
- Moe, Chandler, McLain — Crystal Memory: A Solution to Long Term Data Storage
- Ramzan — Has Your Brain Been Hacked

Session 1E Bolin 213
- Nash — BotNets: How You Are Helping the Hackers?
- Shah — Bitcoin
- Orozco, Witherspoon, Munoz, Ivey — Automation of a Gear/Chain-based Transmission
- Lord — 3D Printing: Even Your Car Can Be 3D Printed

Session 1F Bolin 209
- Yoshimura — Application of Artificial Intelligence in the Domain of Criminal Court
- Cox — Machine Learning
- Savage, Allen, Arrington, Sims — On Slippage of a Sucker Rod Pump System
- Placencia — Autonomous Vehicle: Security Threats

Session 2A, 2B, 2C, 2D, 2E and 2F 11:40 am to 1:00 pm

Session 2A: Bolin 100
- Wood — Social Bots: The Real Robots in Disguise
- Aitrou — Latency in Virtual Reality: A Hardware vs. Software Analysis
- Boukhary — Radix-2 Fast Fourier Transforms: Performance Analysis of Sequential & Different Parallel Approaches
- Williams — Censoring Sensors: Did YouTube Kill Free Speech?

Session 2B: Bolin 127
- Shelton — AI Chips: Are They Ranch or Barbeque Flavored
- Shree, Leal — Would Your Robot Like Some Pi?
- Egloff, May, Moody, Parnell, Reyes — Hound Drone
- Smith — IoT-The Internet of Terror

Session 2C: Bolin 320
- Mapuvire — Enhanced: Job Automation and Worker Augmentation
- Tracy, Dorion, Marino, Hendrikson — Development of a Lizard Preferred Body Temperature Data Collection Apparatus
- Harrelson — Net Neutrality: An Internet for the Rich
- Hill, Sayeed — The Concepts of Quantum Computing

Session 2A, 2B, 2C and 2D (continued)   11:40 am to 1:00 pm

Session 2D: Bolin 312
Redhead	The Year 2030: Do Humans Still Interact?
Boukhary	Parking Lot Occupancy Tracking
Sanders	3D Printing Applications in Space
Troester	Hack Proof Coding

Session 2E: Bolin 213
Moeller	Artificial Consciousness: Constructing the Mind
Washington, Nzima	Robot Soccer Using Artificial Intelligence
Tomei	Electronic Implants: Overcoming Challenges
Coleman	Ransomware: The Modern Cyber Flu

LUNCH 1:00 PM TO 2:10 PM

Session 3A, 3B, and 3C   2:20 pm to 3:50 pm

Session 3A: Bolin 100
Coleman, Harrelson, Tomei, Smith	Sketch With Friends
Norton	Safety & Infrastructure in Autonomous Vehicles
Joseph	Social Media vs the Internet: Who's to Blame?

Session 3B: Bolin 127
Placencia, Campbell, Wood, Ellis	Check-In: Revolutionizing the Way We Take Attendance
Goonesekere, Tokonyai, Fidlar	Deep Sea Exploration Using an Intelligent Unmanned Drone Fleet
Placencia, Ellis, Trebing	Linear Regression: Is Parallel Worth It?

Session 3C: Bolin 320
Hamilton, Nash, Troester, Conley	Hotter'n Hell Hundred Mobile App
Enem	Blockchain: The Driving Force Behind Cryptocurrency
Stewart, Kowolock, Hill, Juarez	Automated Pneumatic Indexing

Session 3D: Bolin 312
Lord, Shelton, Cook, Khalid	Booksharing Website for MSU
Reyes, Reyes	Experimental Study of the Nonlinear Dynamics in a Duffing Oscillatory Circuit
Troester, Cook, Mapuvire	Dijkstra's Algorithm: Sequential vs GPU

Session 3E: Bolin 213
Trebing, Callendar, Duhan, Vijayaraman, Ramzan	CS Student Survival Guide
McKay	Augmented Reality Uses in a Surgical Setting

Session 3F: Bolin 209
Browne	Evolving Menace: Detecting AI Empowered Social Bots
Brown, Scheffe, de Alwis	Increasing the Pressure Tolerance Limit of a Plate Heat Exchanger

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Browne	Evolving Menace: Detecting AI Empowered Social Bots
Gregory, Kaufman	Compressible Air Through a Converging-Diverging Nozzle