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

KEYNOTE SPEAKER

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

<table>
<thead>
<tr>
<th>Session 1A: Bolin 100</th>
<th>Session 1B: Bolin 127</th>
<th>Session 1C: Bolin 320</th>
<th>Session 1D: Bolin 312</th>
<th>Session 1E Bolin 213</th>
<th>Session 1F Bolin 209</th>
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</thead>
<tbody>
<tr>
<td>Swoonim, Mahajan, Budhachetri</td>
<td>Perez, Cook, Trebing, Jenny</td>
<td>Dohar, Hale, Moss, Nikayaramba, McKissick</td>
<td>Press, Khalid, Moe, Chandler, McLain, Ramzan</td>
<td>Nash, Shah, Orozco, Witherspoon, Munoz, Ivey, Lord</td>
<td>Yoshimura, Cox, Savage, Allen, Arrington, Sims, Placencia</td>
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<tr>
<td></td>
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<td>Big Data</td>
<td>The Invisible Machine of Wall Street</td>
<td>Bitcoin</td>
<td>Machine Learning</td>
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<td>Salt Ions Separation Study When Exposed to an Electric Field</td>
<td>Crystal Memory: A Solution to Long Term Data Storage</td>
<td>Automation of a Gear/Chain-based Transmission</td>
<td>On Slippage of a Sucker Rod Pump System</td>
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### Session 2A, 2B, 2C, 2D, 2E and 2F  11:40 am to 1:00 pm

<table>
<thead>
<tr>
<th>Session 2A: Bolin 100</th>
<th>Session 2B: Bolin 127</th>
<th>Session 2C: Bolin 320</th>
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<tbody>
<tr>
<td>Wood, Astrou, Boukhary, Williams</td>
<td>Shelton, Shree, Leal, Egloff, May, Moody, Panell, Reyes, Smith</td>
<td>Mapuivre, Tracy, Donion, Marino, Hendriksen, Harrelson, Hill, Sayeed</td>
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<tr>
<td>Social Bots: The Real Robots in Disguise</td>
<td>AI Chips: Are They Ranch or Barbeque Flavored</td>
<td>Enhanced: Job Automation and Worker Augmentation</td>
</tr>
<tr>
<td>Radix-2 Fast Fourier Transforms: Performance Analysis of Sequential &amp; Different Parallel Approaches</td>
<td>Hound Drone</td>
<td>Apparatus</td>
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<td>Censoring Sensors: Did YouTube Kill Free Speech?</td>
<td>IoT-The Internet of Terror</td>
<td>Net Neutrality: An Internet for the Rich</td>
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<td>The Concepts of Quantum Computing</td>
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</table>
Session 2A, 2B, 2C and 2D (continued)  11:40 am to 1:00 pm

**Session 2D: Bolin 312**
- Redhead
- Boukhary
- Sanders
- Troester

**Session 2E: Bolin 213**
- Moeller
- Washington, Nzima
- Tomei
- Coleman

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, Harrelton, Tomei, Smith
- Norton
- Joseph

**Session 3B: Bolin 127**
- Placencia, Campbell, Wood, Ellis
- Goonesekeere, Tokonyai, Fidlar
- Placencia, Ellis, Trebing

**Session 3C: Bolin 320**
- Hamilton, Nash, Troester, Conley
- Ensen
- Stewart, Kowolok, Hill, Juarez

**Session 3D: Bolin 312**
- Lord, Shelton, Cook, Khalid
- Reyes, Reyes

**Session 3E: Bolin 213**
- Trebing, Cillendar, Duhan, Vijayraman, Ramzan
- McKay

**Session 3F: Bolin 209**
- Browne
- Brown, Schecke, de Alwis

- The Year 2030: Do Humans Still Interact?
- Parking Lot Occupancy Tracking
- 3D Printing Applications in Space
- Hack Proof Coding
- Artificial Consciousness: Constructing the Mind
- Robot Soccer Using Artificial Intelligence
- Electronic Implants: Overcoming Intelligence Challenges
- Ransomware: The Modern Cyber Flu
- Safety & Infrastructure in Autonomous Vehicles
- Social Media vs the Internet: Who’s to Blame?
- Check-In: Revolutionizing the Way We Take Attendance
- Deep Sea Exploration Using an Intelligent Unmanned Drone Fleet
- Linear Regression: Is Parallel Worth It?
- Hotter’s Hall Hundred Mobile App
- Blockchain: The Driving Force Behind Cryptocurrency
- Automated Pneumatic Indenting
- Bookshaking Website for MSU
- Experimental Study of the Nonlinear Dynamics in a Duffing Oscillatory Circuit
- Dijkstra’s Algorithm: Sequential vs GPU
- CS Student Survival Guide
- Augmented Reality Uses in a Surgical Setting
- Evolving Menace: Detecting AI Empowered Social Bots
- Increasing the Pressure Tolerance Limit of a Plate Heat Exchanger
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- McKay
- Brown, Scheffe, de Alwis
  
Session 3F: Bolin 209
- Browne
- Gregory, Kaufman
  
Evoking Menace: Detecting AI Empowered Social Bots
Compressible Air Through a Converging-Diverging Nozzle