60th Annual International Conference
October 7 - 10, 2020

Virtual Conference Program

Conference Theme: The Internet of Things
The year 2020 will obviously go down in history as a very dynamic and volatile year as we proceed into the future. IACIS has seen many changes that include new and exciting developments.

First off, this is our 60th international conference and our first ever all virtual, synchronous conference. We have also seen a change in our board structure from eight members to six. The board now consists of Daryl Nord, Executive Director; Jeretta Nord, Director of Publications and Treasurer; Alex Koohang, Director of Technology and Operations; Maria Elena Corbeil, President & Director of Conference Arrangements; Joanna Paliszkiewicz, Vice President & Conference Chair; and our newest member, Kevin Floyd, Secretary & IIS Editor. The qualities each of the board members bring to the organization, along with the reduction in board size have worked very well.

In addition, this May, we hosted our first ever, very successful IACIS European Conference. Our plan is to continue this conference every summer going forward. This year, the conference was scheduled to be held in Warsaw, Poland at the Warsaw University of Life Sciences. However, at the last minute, due to COVID-19, it was converted to a fully online environment. The success of the European conference has not only added significant numbers to our membership, it has also brought IACIS to an area of the world that we have wanted to reach for some time.

So, welcome to the 60th Annual Conference for the International Association for Computer Information Systems. This year, we are hosting the conference fully online with a synchronous keynote, presentations, and networking sessions.

This year’s theme, The Internet of Things, was embraced by this year’s authors. Full papers, panels, and presentations range in topics from applications of IoT for business, teaching, program development, connected health, supply chain, wearable technologies, security, privacy, and a wide range of research in information systems and other technology-related fields.

In addition, participation in IACIS provides an added benefit. All submissions undergo a double blind-peer reviewed process. High-ranking research and pedagogy full papers are selected for presentation at the IACIS conference and published in, Issues in Information Systems (IIS).

IIS is a double-blind refereed, serial journal publication of IACIS that is registered with the U.S. Library of Congress (ISSN 1529-7314) and listed in the Eighth Edition of Cabell’s Directory of Publishing Opportunities in Management and Marketing. Papers selected for publication in Issues in Information Systems (IIS), as well as accepted abstracts and panels published in the Conference Proceedings, can be accessed at IACIS.org.

The IACIS board members would like to take this opportunity to thank you for contributing to the 60th Annual IACIS Conference, and for your continued support.

We look forward to lively and meaningful presentations, discussions, and collegial networking.
# IACIS EXECUTIVE BOARD MEMBERS

<table>
<thead>
<tr>
<th>Role</th>
<th>Name</th>
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<tbody>
<tr>
<td>Executive Director</td>
<td>Daryl Nord</td>
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<tr>
<td>Publication Director &amp; Treasurer</td>
<td>Jeretta Horn Nord</td>
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<tr>
<td>Technology &amp; Operation Director</td>
<td>Alex Koohang</td>
</tr>
<tr>
<td>President &amp; Director of Conference Arrangements</td>
<td>Maria Elena Corbeil</td>
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<tr>
<td>Vice President &amp; 2020 Conference Chair</td>
<td>Joanna Paliszkiewicz</td>
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<tr>
<td>Secretary &amp; IIS Editor</td>
<td>Kevin Floyd</td>
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# ACKNOWLEDGEMENTS

We would like to express our appreciation to the Taylor & Francis team for their year-round support of the conference and JCIS.

We also extend a heart-felt thank you to Vicky Sandoval, Nicholas Nord, and Joseph Rene Corbeil for serving as *Virtual Conference Facilitators* the 3 days of the conference. They also contributed their technology expertise prior and during the conference.

# AWARD RECIPIENTS

This symbol next to the title of a presentation in the conference schedule designates an award recipient.
VIRTUAL PRESENTATION SESSIONS

TIME ZONE OF PRESENTATIONS & EVENTS

All presentations in the Conference Schedule below are scheduled in **Central Daylight Time (CDT)**. This is the time zone for Nashville, Tennessee USA.

Please see the next page of the program. Time conversion tools are provided on the next page to help you determine your presentation time in your time zone.

PRESENTATION DURATION

This year, in order to allow enough time for transition between presentations, each 1-hour session will host 2 presentations instead of the usual 3.

Each session will have **25 minutes for the presentation & questions** and **10 minutes for the transition between presentations**.

Panels will have 1 hour for the session.

IMPORTANT:

- In order to facilitate the online presentation process, we ask that all presenters be online and in the online room of their presentation at least 5 minutes before each session.

- If you are a presenter, please present in the order listed in the schedule below.

Attendees will go in and out of the online rooms based on the presentations they want to see. They will expect to see the presentations in the order of the schedule below.

Session Chairs will be available to help keep the time for each presentation.

Zoom Guide

The week of the conference, please visit the IACIS.org websites for a guide on how to log in, attend, and share the screen (to share your slides during your presentation) using Zoom.
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WORLD & U.S. TIME ZONES

All presentations in the Conference Schedule below are scheduled according to Central Daylight Time (CDT).

Below are 2 resources to help us identify the time of each presentation session by time zone:

**World Time Zone Interactive Map**

Click on the link below to view an interactive map where we can click and see the current time for any place in the world.

[https://www.timeanddate.com/time/map](https://www.timeanddate.com/time/map)

**U.S. Time Zone Map**

- **Alaskan Time Zone**
- **Hawaiian Time Zone**
- **Mountain Time Zone**
- **Pacific Time Zone**
- **Central Time Zone**
- **Eastern Time Zone**

Arizona is in the Mountain Time Zone and does not observe daylight saving time except for the Navajo Indian Nation. To view the current time in Arizona select from the state menu below.

<table>
<thead>
<tr>
<th>Hawaii Time</th>
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<th>Pacific Time</th>
<th>Mountain Time</th>
<th>Central Time</th>
<th>Eastern Time</th>
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PROGRAM OVERVIEW

All presentations in the Conference Schedule below are scheduled according to Central Daylight Time (CDT).

The conference website will be made available a few days before the conference with the links to each online presentation room.

<table>
<thead>
<tr>
<th>Wednesday, October 7, 2020</th>
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<tbody>
<tr>
<td>6:00 – 6:30 pm. CDT</td>
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<td>Welcome Reception</td>
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<th>Thursday, October 8, 2020</th>
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<tr>
<td>8:00 – 8:10 a.m. CDT</td>
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<tr>
<td>Welcome</td>
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<td>8:10 – 9:10 a.m. CDT</td>
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<tr>
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<td>10:30 – 11:30 a.m. CDT</td>
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<td>11:30 a.m. – 12:00 p.m. CDT</td>
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<tr>
<td>Networking Break</td>
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<td>12:00 – 1:00 p.m. CDT</td>
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<td>3:30 – 4:30 p.m. CDT</td>
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<td>Concurrent Presentation Sessions</td>
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<td>4:30 – 5:00 p.m. CDT</td>
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<td>11:30 a.m. – 1:00 p.m. CDT</td>
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<tr>
<td>Awards Ceremony &amp; Business Meeting</td>
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<tr>
<td>10:20 – 11:00 a.m. CDT</td>
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<tr>
<td>Conference Debriefing</td>
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KEYNOTE ADDRESS SPEAKER

LYNNE CLARK

Deputy Chief, Center for Cybersecurity Education, Innovation and Outreach

The Center for Cybersecurity Education, Innovation and Outreach is a division of the National Cryptologic school at the National Security Agency. The Center is responsible for management of the Centers of Academic Excellence in Cybersecurity (NCAE-C) program, the GenCyber and STARTALK summer programs, the Service Academy Intern Program, Service Academy Visiting Professors and other NSA academic outreach programs.

In twenty years at NSA, Ms. Clark has worked in Operations Security, risk management and information assurance, and managed the Information Assurance Directorate personnel and recruiting programs.

She is the recipient of the Meritorious Civilian Service Award, was twice awarded the Joint Meritorious Unit Award for special projects in support of the Department of Defense, and the National Intelligence Meritorious Unit Citation for support to the Intelligence Community.

Prior to joining NSA, Ms. Clark served in the U.S. Air Force with worldwide assignments in airspace management, radar operations and operations risk management; she retired at the rank of Lieutenant Colonel in 1999. Ms. Clark’s academic credentials include a Masters in Clinical Psychology from the Fielding Institute, and a B.A. in Community Development from Baldwin-Wallace College.
IACIS RECOGNITION AWARDS

OVERVIEW

With the awards described below, each year IACIS recognizes a number of individuals who have made significant contributions to Information Systems and related fields through scholarship, research, publication, curriculum and program development, and service.

Computer Educator of the Year

The Computer Educator of the Year is the highest award given by the Association, and competition for the award is keen. Candidates show exceptional research and teaching skills, have made significant contributions to IS and IS education, and enjoy a national or international reputation for their outstanding work throughout the professional community. Recent recipients have included curriculum innovators, leaders in the field of artificial intelligence and IS management, and publishers of learning materials that have significantly impacted the educational community. Nominations for the Computer Educator of the Year are accepted from September until March, with the selection made in June or July. The award is presented at the annual conference in the fall.

Ben Bauman Award for Excellence

Ben Bauman was a long-time member, officer, Director and contributor to IACIS, and a member of the faculty at James Madison University. Ben made it his life's work to contribute to his profession and university and to mentor junior faculty and help them realize their potential. He passed away suddenly, and in recognition of his years of service and contributions, IACIS established an award in his honor.

The Ben Bauman Award for Excellence recognizes faculty excellence and service. Candidates for the Ben Bauman Award include senior faculty with significant service to their profession, university, and community. Examples of service include taking a leadership role in professional organizations, assuming significant committee responsibilities and serving the community through civic, church, and other activities. While research and scholarship are important activities for all faculty, the major emphasis when reviewing senior faculty nominations for the Ben Bauman Award is on significant and long-term service.

A second category of candidates includes junior faculty showing outstanding scholarship, service, and great promise. It is expected that candidates in this category will not have a long record of scholarship and service but will have recognizable achievements. The major emphasis when reviewing junior faculty nominations for the Ben Bauman Award is on the candidate's potential and promise for a significant academic career.
Nominations are accepted for both junior and senior faculty, with one candidate from all nominations selected each year to receive the award. Nominations for the *Ben Bauman Award for Excellence* are accepted from September until March, with the selection made in June or July. The awards are presented at the annual conference in the fall.

**Jay Liebowitz Outstanding Student Research Award**

The *Jay Liebowitz Outstanding Student Research Award* is an award that recognizes an outstanding student research paper submitted to the IACIS Annual Conference. While the paper may include co-authorship with other students and/or faculty, the research reported must be based on a student-initiated project. Criteria includes: (1) contribution of the research to the existing literature; (2) research methodology, data collection, and analysis; (3) lessons learned; and (4) clarity of the writing. The award includes a modest honorarium and recognition in the conference program. The award is presented at the annual IACIS International Conference.

**Best Pedagogy Paper**

An award for the best paper written regarding pedagogy is awarded at the annual conference. Based on the results of the double-blind, peer reviews, the paper is selected from those submitted for presentation at the conference. An Honorable Mention will also be awarded in this category. There is no nomination for this award and all papers accepted for presentation at the conference are candidates.

**Best Research Paper**

An award for the best paper written regarding research is awarded at the annual conference. Based on the results of the double-blind, peer reviews, the paper is selected from those submitted for presentation at the conference. An Honorable Mention will also be awarded in this category. There is no nomination for this award and all papers accepted for presentation at the conference are candidates.
Dr. Joseph Rene Corbeil
Professor, Educational Technology
The University of Texas Rio Grande Valley

Dr. Joseph “Rene” Corbeil has 37 years teaching experience in public and higher education and has specialized in online education for the past 20+ years. He is a Professor of Educational Technology at The University of Texas Rio Grande Valley (UTRGV) and is the Program Coordinator for the Master of Education and the Faculty Lead for Doctoral Specialization in Educational Technology. His work as program coordinator and faculty lead has contributed to the growth and recognition of both programs at the state and national level. In May 2020, UTRGV recognized Dr. Corbeil as Outstanding Graduate Program Coordinator for spearheading the highest enrollment growth of an online program.

Dr. Corbeil has over 50 publications in the areas of educational technology and e-learning. His most recent publications have focused on best practices in distance learning design, facilitation, and assessment; enhancing communication through synchronous and asynchronous channels; developing and maintaining learning team collaborations in computer-mediated environments; and researching the effectiveness of Web 2.0 and social media for enhancing social presence and teacher immediacy in e-learning environments. His co-edited book, published in 2015, The MOOC Case Book: Case Studies in MOOC Design, Development and Implementation, won 2nd place in the AECT Division of Distance Learning Book Award. A second co-edited book titled, Responsible Analytics and Data Mining in Education, published in 2019, was a winner of two Outstanding Book Awards from the Association of Educational Communications and Technology (Culture, Learning, & Technology and Systems Thinking & Change divisions). Many of his articles have also garnered recognition, including an EDUCAUSE Quarterly Contribution of the Year, two IACIS Best Paper awards, and multiple Selected Papers from the International Conference on College Teaching and Learning. He is currently collaborating with Dr. Badrul H. Khan and Dr. Maria Elena Corbeil on a third edited book titled, Microlearning in the Digital Age: The Design and Delivery of Learning in Snippets, which is scheduled for release in early 2021.

Dr. Corbeil has also earned several awards for excellence in distance education teaching and learning, including a 2012 Regent’s Outstanding Teaching Award, and a 2019 Best Practice Award from the Association of Educational Communications and Technology (AECT) - Division of Organizational Training and Performance. In 2017 and 2019 respectively, his work in online education was recognized for an Effective Practice Award by the Online Learning Consortium for Integrating Competency-Based Micro-Credentials into Stackable Graduate Degrees, and for, Digital Badges: Motivating Learners to Excel While Adding Professional Value to their College Degrees.

Dr. Corbeil’s philosophy of teaching is rooted in the belief that students are the most important people on campus; that teaching is the most important responsibility of faculty; and, student learning and success are the most important outcomes of teaching. When asked about what motivates him, Dr. Corbeil frequently references his goal to make the Educational Technology program at UTRGV one of the best in the nation, and with the help of his team of exceptional faculty, he believes this goal has been actualized as evidenced by the highly capable graduates who are able to hit the ground running and are currently leading the technological initiatives in their school districts and organizations, mentoring fellow teachers and co-workers in the use digital technologies to facilitate effective online and remote learning during these difficult times.
Dr. Alan Peslak
Professor of Information Sciences and Technology
and Discipline Coordinator
Penn State University

Dr. Peslak is a professor of Information Sciences and Technology and Discipline Coordinator at Penn State University. After 25 years in private industry including serving as Vice President of Finance for a major division of Akzo Nobel n.v., he earned his Ph.D. from Nova Southeastern University and MBA from the University of Scranton and entered the academy at Penn State University in 2002. He has taught a wide variety of information technology, business, and statistics courses over his academic career.


Leadership positions at external organizations and conferences have included Track Chair of Information Systems Education Conference, Conference Chair or Conference on Applied Information Systems Research, Board of Directors for the Educational Special Interest Group of the Association of Information Technology Professionals and have been Membership Director, Vice President, and President. He also serves as PSU Discipline Coordinator for IST in The PSU University Colleges, coordinating curricula and faculty for 14 campuses.

Recent work has begun in joint international educational efforts and working with students and faculty at S. Seifullin Kazakh AgroTechnical University in Nur Sultan, Kazakhstan on a Collaborative Online International Learning (COIL), as known as EDGE, project between agricultural students and PSU IST students.

Dr. Peslak was one of 12 faculty members selected to visit the University of Auckland, New Zealand in 2019 to develop a strategic research partnership between Penn State University and the University of Auckland.

External discipline contributions have also been recognized primarily by selection by the international organization, Association of Information Technology Professionals Educational Special Interest Group (EDSIG) as an EDSIG Fellow. “AITP-EDSIG is pleased to recognize individuals who have distinguished themselves and advanced the profession of Information Systems education at the collegiate level. Each year Fellows are inducted in honor of their sustained, long-term, meaningful and effective support of AITP-EDSIG in its ongoing mission to improve IS Education, mentor IS students, and foster the careers of IS faculty.”
Jay Liebowitz Outstanding Student Research Award

SENTIMENT ANALYSIS ON GOOGLE CLOUD PLATFORM
Terrence E. White, University of St. Thomas
Co-Authors & Faculty Advisor: Manjeet Rege

Best Paper Award – Pedagogy

TEACHING INTERNET OF THINGS (IoT) THROUGH SOFTWARE SIMULATIONS WITH PACKET TRACER
Ping Wang
Hossein Zare

ANALYZING COLLEGE STUDENTS’ PRE-KNOWLEDGE AND POST-KNOWLEDGE OF EMBEDDED SOFTWARE SECURITY AND ITS IMPACT TOWARDS FUTURE INTERNET OF THINGS (IOT) DEVELOPMENTS
Mel Tomeo
David Hertz
John J. Scarpino
Lee Cottrell
Wilfred Mutale

Best Paper Award – Research

A MULTI-LAYER APPROACH TO DETECTING AND PREVENTING IOT-BASED BOTNET ATTACKS
Bryon Miller
Xihui Zhang

A COMPARATIVE ANALYSIS OF BUSINESS AND NON-BUSINESS STUDENTS AWARENESS OF IOT DEVICES AND SECURITY PRACTICES: AN EXPLORATORY STUDY
Queen E. Booker
Carl M. Rebman
Hayden Wimmer
# ONLINE CONFERENCE SCHEDULE

## Wednesday, Oct. 7, 2020

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<tr>
<th>Time</th>
<th>Event</th>
<th>Online Room</th>
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</thead>
<tbody>
<tr>
<td>6:00 – 6:30 p.m. CDT</td>
<td>Welcome Reception</td>
<td>Redstone</td>
</tr>
</tbody>
</table>

Join us for some time together to catch up, get to know new members, and network with each other!

## Thursday, October 8, 2020

### Welcome

8:00 – 8:10 a.m. CDT

8:10 – 9:10 a.m. CDT **Keynote Address by Lynne Clark**

Chief of the NSA/DHS Centers of Academic Excellence

National Security Agency

### Applications of IoT

**IoT A GATEWAY FOR ACCEPTANCE: THE POTENTIAL FOR BROAD PURPOSE IMPLANT DEVICES**

Jennifer L. Breese  
Penn State University  
jzb545@psu.edu  

Tatiana Zwerling  
Penn State University  
tatiana@psu.edu  

**LIVE MUSIC PERFORMANCES AND THE INTERNET OF THINGS**

Jennifer L. Breese  
Penn State University  
jzb545@psu.edu  

Mark A. Fox  
Indiana University South Bend  
mfox1@iusb.edu  

Ganesh Vaidyanathan  
Roosevelt University  
gvaidyanathan@roosevelt.edu

### IoT in Higher Education & Privacy Issues

**ANALYZING COLLEGE STUDENTS’ PRE-KNOWLEDGE & POST-KNOWLEDGE OF EMBEDDED SOFTWARE SECURITY & ITS IMPACT TOWARDS FUTURE INTERNET OF THINGS DEVELOPMENTS**

**AWARD: Best Paper (Pedagogy)**

Mel Tomeo  
Miami Dade College  
tomeo@mdc.edu  

David Hertz  
Pittsburgh Technical College  
hertz.david@ptcollege.edu  

John J. Scarpino  
Pittsburgh Technical College  
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Lee Cottrell  
Pittsburgh Technical College  
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Wilfred Mutale  
Pittsburgh Technical College  
mutale.wilfred@ptcollege.edu

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<table>
<thead>
<tr>
<th>Topic</th>
<th>Authors</th>
<th>Session Details</th>
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<tbody>
<tr>
<td><strong>Analytics &amp; Classification Models</strong></td>
<td><strong>PRIVACY ISSUE IN THE INTERNET OF THINGS: SECURITY THREATS AND CHALLENGES</strong></td>
<td>Online Room: Warm Springs</td>
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<td></td>
<td>Bilquis Ferdousi</td>
<td>Session Chair: Michael Lohle</td>
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<td>Eastern Michigan University</td>
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<td><a href="mailto:bferdous@emich.edu">bferdous@emich.edu</a></td>
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<tr>
<td><strong>Technology &amp; Healthcare</strong></td>
<td><strong>THE INTERNET OF THINGS (IoT), ELECTRONIC HEALTH RECORD (EHR), AND FEDERAL LEGISLATION:</strong></td>
<td>Online Room: Tiger Mountain</td>
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<td></td>
<td>THE CASE FOR A NATIONAL ELECTRONIC PERSONAL HEALTH INFORMATION (E PHI) RECORD SYSTEM</td>
<td>Session Chair: Gary Janchenko</td>
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<td>Raymond Angelo</td>
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<td>Quinnipiac University</td>
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<td><strong>THE EPIPHANY: STUDENTS’ PERCEPTIONS OF MANAGEMENT AND TECHNICAL CONTENT IN A GRADUATE ANALYTICS COURSE</strong></td>
<td>Michael Lohle</td>
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<td>University of Bridgeport</td>
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<td>Steven Terrell</td>
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<td><strong>TOWARDS THE DEVELOPMENT OF A CLASSIFICATION MODEL FOR TECHNICAL DOCUMENTS</strong></td>
<td>Roman Melnyk</td>
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<td>Martha M. Snyder</td>
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<td>Alexander Verner</td>
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<td><strong>THE IMPACT OF ELECTRONIC HEALTH RECORD SYSTEMS ON PHYSICIAN PRODUCTIVITY</strong></td>
<td>Gary Janchenko</td>
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<td>Robert Morris University</td>
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### Applications of IoT

**THE INTERNET OF THINGS: AN OVERVIEW OF SELECTED SMART HOME TECHNOLOGY**

- Calandra E. Weaver  
  Ball State University  
  ceweaver@bsu.edu
- Edward J. Lazaros  
  Ball State University  
  ejlazaros@bsu.edu
- Jensen J. Zhao  
  Ball State University  
  jzhao@bsu.edu
- Christopher B. Davison  
  Ball State University  
  cbdavison@bsu.edu
- Allen D. Truell  
  Ball State University  
  atruell@bsu.edu

**AI, IoT, & AIoT: DEFINITIONS & IMPACTS ON THE ARTIFICIAL INTELLIGENCE CURRICULUM**

- John C. Stewart  
  Robert Morris University  
  stewartj@rmu.edu
- Gary Alan Davis  
  Robert Morris University  
  davis@rmu.edu
- Diane A. Igoche  
  Robert Morris University  
  igoche@rmu.edu

### IoT Challenges & Perceptions

**DIGITAL TRIBALISM & THE INTERNET OF THINGS: CHALLENGES**

- AJ Grant  
  Robert Morris University  
  granta@rmu.edu

### Medical Education & Security

**BUILDING AN ANALYTICAL MODEL TO PREDICT WORKFORCE OUTCOMES IN MEDICAL EDUCATION**

- Logan Butler  
  University of Minnesota  
  lbutler@umn.edu
- Manjeet Rege  
  University of St. Thomas  
  rege@stthomas.edu
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<tr>
<th>Room: Warm Springs</th>
<th>Room: Tiger Mountain</th>
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<tr>
<td>Session Chair: Ganesh Vaidyanathan</td>
<td>Session Chair: Philip Kim</td>
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</table>

### Health Care

**DIGITAL HEALTH: DATA PRIVACY AND SECURITY WITH CLOUD COMPUTING**
Akshay Mittal
University of the Cumberlands
amittal3061@ucumberlands.edu

**A SIX-DIMENSIONAL FRAMEWORK FOR TELEHEALTH DELIVERY**
Ganesh Vaidyanathan
Roosevelt University
gvaidyanathan@roosevelt.edu
Mark Fox
Indiana University South Bend
mfox1@iusb.edu

**INTERNET OF THINGS (IOT) MEDICAL SECURITY: TAXONOMY & PERCEPTION**
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Chalermpoon Kesa
Robert Morris University
cxkst116@mail.rmu.edu
James Cooper
Robert Morris University
jecst232@mail.rmu.edu

### The Use of Chatbots

**USING A MULTILINGUAL CHATBOT FOR FOREIGN LANGUAGE PRACTICE**
Mahesh Vanjani
Texas Southern University
mahesh.vanjani@tsu.edu
Milam Aiken
University of Mississippi
maiken@bus.olemiss.edu
Mina Park
Southern Connecticut State University
parkm2@southernct.edu

**CAN CHATBOTS WORK WELL WITH KNOWLEDGE MANAGEMENT SYSTEMS?**
Mathew Erickson
Walsh University
merickso1@walsh.edu
Philip Kim
Walsh University
pkim@walsh.edu
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<th>Room: Eagle Ridge</th>
<th>Room: Redstone Networking</th>
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<td><strong>Session Chair:</strong> Alex Koohang</td>
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### Security Policy & Education

**IMPACT OF HABITS ON INFORMATION SECURITY POLICY COMPLIANCE**
Jeretta Horn Nord  
Oklahoma State University  
jeretta.nord@okstate.edu  
Alex Koohang  
Middle Georgia State University  
alex.koohang@mga.edu  
Kevin Floyd  
Middle Georgia State University  
kevin.floyd@mga.edu  
Joanna Paliszkiewicz  
Warsaw University of Life Sciences  
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### PERSONAL EFFECTIVENESS COMPETENCIES OF RECENT CYBERSECURITY GRADUATES
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College of Coastal Georgia  
nstclair@ccga.edu  
John Girard  
Middle Georgia State University  
john.girard@mga.edu

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<tr>
<th>11:30 a.m. – 12:00 p.m. (CST)</th>
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<td>Online Room: Redstone</td>
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### Student Engagement

**ENGAGING STUDENTS WITH COURSE CONTENT USING SCHEDULED & UNSCHEDULED EMAILS & TEXT MESSAGES**  
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eric.kobbe@gcsu.edu  
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Brad Fowler  
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brad.fowler@gcsu.edu  
Joy Godin  
Georgia College and State University  
joy.godin@gcsu.edu

### Program Improvement

**DEVELOPING CRITICAL THINKING SKILLS IN INFORMATION SYSTEMS MAJORS THROUGH PEER REVIEW**  
Judy Wynekoop  
Florida Gulf Coast University  
jwynekoop@fgcu.edu  
Kazuo Nakatani  
Florida Gulf Coast University  
knakatan@fgcu.edu

**INTRODUCING STEM DESIGNATED PROGRAM OF STUDY IN INFORMATION TECHNOLOGY: A CASE STUDY**  
Azad I. Ali  
Indiana University of Pennsylvania  
azad.ali@iup.edu
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<td><strong>Session Chair:</strong> Rhonda G. Chicone</td>
<td><strong>Session Chair:</strong> Jeong Yang</td>
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### Cybersecurity

**STARTING A CYBER SECURITY PROGRAM AT A UNIVERSITY: A CASE STUDY**  
Jason E. James  
Indiana State University  
jason.james@indstate.edu

**A COMPARISON STUDY OF TWO CYBERSECURITY LEARNING SYSTEMS: FACEBOOK’S OPEN SOURCE CAPTURE THE FLAG & CTFD**  
Rhonda G. Chicone  
Purdue University Global  
rchicone@purdueglobal.edu  
Susan Ferebee  
Purdue University Global  
sferebee@purdueglobal.edu

### The Future of Transportation

**THE CONNECTED CAR: A GLIMPSE INTO THE FUTURE OF TRANSPORTATION**  
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dnicley@bsu.edu  
Edward J. Lazaros  
Ball State University  
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Allen D. Truell  
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Jensen J. Zhao  
Ball State University  
jzhao@bsu.edu  
Christopher B. Davison  
Ball State University  
cbdavison@bsu.edu

### Faculty Perceptions

**COMPUTING FACULTY INTERNATIONALIZATION PERCEPTIONS: AN EXPLORATORY DATA ANALYSIS USING R**  
John Girard  
Middle Georgia State University  
john.girard@mga.edu  
Laura Thomason  
Middle Georgia State University  
laura.thomason@mga.edu  
Chris Tsavatewa  
Middle Georgia State University  
chris.tsavatewa@mga.edu

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<tr>
<th>STUDENT &amp; FACULTY PERCEPTIONS OF ACADEMIC DISHONESTY IN ONLINE CLASSES</th>
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| Karen Paulet  
  Robert Morris University  
paulett@rmu.edu |

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<tr>
<th>Thursday, October 8, 2020, 1:10 – 2:10 p.m. (Central Daylight Time)</th>
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| **Room:** Deer Park  
  **Session Chair:** Martinson Ofori |

**Social Media**

- DETECTION OF FAKE REVIEWS ON SOCIAL MEDIA USING MACHINE LEARNING ALGORITHMS  
  Huy Le  
  Seattle University  
  lehuy@seattleu.edu  
  Ben Kim  
  Seattle University  
  bkim@seattleu.edu

- USING SOCIAL MEDIA FOR CUSTOMER KNOWLEDGE MANAGEMENT IN DEVELOPING ECONOMIES: A SYSTEMATIC REVIEW  
  Martinson Ofori  
  Dakota State University  
  martinson.ofori@trojans.dsu.edu  
  Omar El-Gayar  
  Dakota State University  
  omar.el-gayar@dsu.edu

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<th><strong>IoT Security</strong></th>
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- A COMPARATIVE ANALYSIS OF BUSINESS & NON-BUSINESS STUDENTS AWARENESS OF IOT DEVICES AND SECURITY PRACTICES: AN EXPLORATORY STUDY  
  AWARD: Best Paper (Research)  
  Queen E. Booker  
  Minnesota State University Mankato  
  queen.booker@mnsu.edu  
  Carl M. Rebman Jr.  
  University of San Diego  
  carlr@sandiego.edu  
  Hayden Wimmer  
  Georgia Southern University  
  hwimmer@georgiasouthern.edu

- PRIVACY & SECURITY CONSIDERATIONS OF THE IOT: APPROACHING PRIVACY BY DESIGN  
  Christopher B. Davison  
  Ball State University  
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  Edward J. Lazaros  
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  Brianna Bowles  
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<td><strong>Session Chair:</strong> Wenying Sun</td>
<td><strong>Session Chair:</strong> Roger Finnegan</td>
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**Technology Applications in Healthcare**

**A STUDY OF THE ROLE OF VR IN MENTAL HEALTH BASED ON PUBLIC OPINION**  
Cian S. Renner  
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Tyler Cross  
Washburn University  
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Daniel Corrales  
Washburn University  
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Wenying Sun  
Washburn University  
nan.sun@washburn.edu

**IMPLEMENTATION OF SOCIAL MEDIA IN HEALTH CARE INDUSTRY: U.S. MIDWEST REGION**  
Dalsang Chung  
Governors State University  
dchung@govst.edu

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**BlockChain Technology & Cybersecurity**

**EXPLORING GRID COMPUTING & VOLUNTEER COMPUTING: ANALYZING DAILY COMPUTING RUNTIMES ON THE WORLD COMMUNITY GRID**  
Kieran Raabe  
Bloomsburg University of Pennsylvania  
kjr10324@huskies.bloomu.edu  
Loreen M. Powell  
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lpowell@bloomu.edu

**CYBERWAR: FORMS & EFFECTS**  
Roger Finnegan  
University of the Cumberlands  
roger.finnegn@ucumberlands.edu

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**Applications of Mobile Devices**

**THE DIFFERENCE OF USING SMARTPHONES & THE PERCEPTION OF FEAR OF MISSING OUT AMONG COLLEGE STUDENTS: A PRELIMINARY STUDY**  
Kustim Wibowo  
Indiana University of Pennsylvania  
kustim.wibowo@iup.edu  
Azad I. Ali  
Indiana University of Pennsylvania  
azad.ali@iup.edu

**THE INFLUENCE OF COGNITIVE FACTORS AND PERSONALITY TRAITS ON MOBILE DEVICE USER’S INFORMATION SECURITY BEHAVIOR**  
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Inkyoung Hur  
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Marlon Clarke  
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<th>Room: Deer Park</th>
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<td><strong>Session Chair:</strong> James J. Lee</td>
<td><strong>Session Chair:</strong> Loreen Powell</td>
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**Machine Learning in Higher Education & Graduates’ Cybersecurity Competencies**

- **EXPLORING THE DETERMINANTS OF HIGHER EDUCATION DEGREE PRODUCTIVITY IN MACHINE LEARNING**
  - Qianhui Guo  
    Seattle University  
    guoqianhui@seattleu.edu  
  - James J. Lee  
    Seattle University  
    leej@seattleu.edu

**INFORMATION SYSTEMS SECURITY EDUCATION: MIS MAJORS & BUSINESS MAJORS IN AACSB COLLEGES OF BUSINESS**

- Kevin Lee Elder  
  Georgia College & State University  
  kevin.Elder@GCSU.edu  
- Thomas S. E. Hilton  
  University of Wisconsin–Eau Claire  
  HiltonTS@uwec.edu

**IS for Business**

- **INFORMATION SYSTEMS & OPERATIONS/SUPPLY CHAIN MANAGEMENT: A SYSTEMATIC LITERATURE REVIEW**
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  - Liqiang Chen  
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  - Abraham Y. Nahm  
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  - Hans Kishel  
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- **OVERVIEW OF EDGE COMPUTING IN SMALL BUSINESSES**
  - Jessica Schwartz  
    University of the Cumberlands  
    jessica.schwartz@ucumberlands.edu  
  - Loreen Powell  
    Bloomsburg University  
    lpowell@bloomu.edu  
  - Michalina Hendon  
    University of the Cumberlands  
    michalina.hendon@ucumberlands.edu
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<td>Session Chair: Scott C. Spangler</td>
<td>Session Chair: Godwin G. Udo</td>
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### Teaching Innovations

**USING A TEAM PROJECT IN TEACHING COMPUTER NETWORKING**

- Ping Wang  
  Robert Morris University  
  wangp@rmu.edu  
- Raed Sbeit  
  University of Cumberlands  
  raed.sbeit@ucumberlands.edu

**IT GRADUATE STUDENTS’ PERCEPTIONS OF EMBEDDED LIBRARIANS**

- Scott C. Spangler  
  Middle Georgia State University  
  scott.spangler@mga.edu

### Population Analysis & Cyber-Harassment

**A COMPUTATIONAL ANALYSIS OF THE IMPACT OF POPULATION & NUMBER OF POLICE OFFICERS ON ASSAULT AGAINST LAW ENFORCEMENT OFFICERS**

- Rudra Panda  
  University of St. Thomas  
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- Priya Sivaprakasam  
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- Manjeet Rege  
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  rege@stthomas.edu

**USING PERSONAL NORM MODEL TO EXPLAIN CYBER-HARASSMENT INTENTION & BEHAVIOR**

- Godwin G. Udo  
  University of Texas at El Paso  
  gudo@utep.edu  
- Kallol K. Bagchi  
  University of Texas at El Paso  
  kbagchi@utep.edu

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<tr>
<td>Session Chair: Jennifer Callen</td>
<td>Networking</td>
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### Cybersecurity Applications

**STUDY OF THE SECURITY OF COMMERCIAL DRONES**

- David Hertz  
  Towson Univ/Pittsburgh Technical College  
  hertz.david@ptcollege.edu

**CYBERSECURITY ENGINEERING: THE GROWING NEED**

- Jennifer Callen  
  PNC Bank  
  jennifer.callen@pnc.com  
- Jason E. James  
  Indiana State University  
  jason.james@indstate.edu

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## Thursday, October 8, 2020, 3:30 – 4:30 p.m. (Central Daylight Time)

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<td><strong>Session Chair:</strong> Jianfeng Wang</td>
<td><strong>Session Chair:</strong> Bryon Miller</td>
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### A New Era: Working & Studying from Home

**HOW DOES IT INTEGRATION CAPACITY LESSEN WORK-FROM-HOME STRESSORS AND ANXIETY?**

Linwu Gu  
Indiana University of Pennsylvania  
lgu@iup.edu  
Jianfeng Wang  
Indiana University of Pennsylvania  
jwang@iup.edu

**FROM FLIPPED, TO FLIPPING OUT, TO MOSTLY SUNNY: HOW THE FLIPPED CLASSROOM MODEL MADE THE MOVE TO EMERGENCY REMOTE LEARNING LESS STORMY**

Meg Fryling  
Siena College  
mfryling@siena.edu

### Cybersecurity

**A MULTI-LAYER APPROACH TO DETECTING AND PREVENTING IOT-BASED BOTNET ATTACKS**

AWARD: Best Paper (Research)

Bryon Miller  
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Xihui Zhang  
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**PREVENTION OF PHISHING ATTACKS: A THREE-PILLARED APPROACH**

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Katelin Miller  
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Xihui Zhang  
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Mark G. Terwilliger  
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<td><strong>Session Chair:</strong> SeongYong Hong</td>
<td><strong>Session Chair:</strong> George Stefanek</td>
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### IoT Development and Security

**AN EFFICIENT IOT APPLICATION DEVELOPMENT BASED ON INTEGRATED IOT**

SeongYong Hong  
Carson-Newman University  
shong@cn.edu

**IOT SECURITY & THE ROLE OF AI/ML TO COMBAT EMERGING CYBER THREATS IN CLOUD COMPUTING ENVIRONMENT**

Temechu G. Zewdie  
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Anteneh Girma  
University of the District of Columbia  
anteneh.girma@udc.edu

### Student Retention

**WOULD FEELINGS OF BOND & PERCEIVED FAIRNESS INCREASE A STUDENT’S RETENTION INTENTIONS TOWARD A UNIVERSITY?**

Wei Sha  
Pittsburg State University  
wsa@pittstate.edu

**AN INNOVATIVE BRIDGE COURSE TO ENHANCE RETENTION IN ENGINEERING PROGRAMS**

George Stefanek  
Purdue University Northwest  
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Niranjan Desai  
Purdue University Northwest  
desai39@pnw.edu

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### Technology Innovations & Readiness

**SMART TOYS FOR AN EDUCATIONAL FRAMEWORK**
Gerry Derksen  
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gderksen@illinois.edu  
Stan Ruecker  
University of Illinois  
sruecker@illinois.edu

**THE ROLE OF SOCIAL INFLUENCE, BEHAVIOR CONTROL, CRITICAL MASS, TECHNOLOGY READINESS, AND CONFORMITY IN TECHNOLOGY USE: A MULTI-THEORY PERSPECTIVE**
Abdou Illia  
Eastern Illinois University  
aillia@eiu.edu

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**Room:** Eagle Ridge  
**Session Chair:** Gerry Derksen  
**Room:** Redstone  
**Networking**

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<td>8:00 – 9:00 a.m.</td>
<td>Applications of IoT</td>
<td>Deer Park</td>
<td>Małgorzata Zakrzewska</td>
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<td><strong>INTERNET OF THINGS ENABLED ELECTRONIC MARKETS:</strong></td>
<td>Pike’s Peak</td>
<td>Jason Xiong</td>
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<td><strong>TRANSPARENT, COLLABORATIVE, AND AUTOMATED</strong></td>
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<td>Bhavik K. Pathak</td>
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<td>Mariusz Sołtysik</td>
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### Cryptocurrency

**BITCOIN & THE CROSS-MARKET EFFECTS OF THE MT. GOX MELTDOWN**

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#### AN APPLIED STUDY OF RNN MODELS FOR PREDICTING CRYPTOCURRENCY PRICES

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### T/MIS Curriculum Research & Automated Disruption Assistance

**IMPROVING THE DESIGN OF INTERPERSONAL SKILLS MODULES FOR IT/MIS CURRICULA: FINDINGS FROM A CORPUS LINGUISTIC RESEARCH**

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#### AUTOMATED DISRUPTION ASSISTANCE IN BRAZIL

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- Raioni de Oliveira Santos  
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### Issues in IS: IoT Privacy & Internet Addiction

**CAN ANYONE PROTECT THE PRIVACY IN THE IOT ERA: EVIDENCE FROM THE SMART GRID**

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### Networking

- **Networking Available all day**  
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## A REVIEW OF INTERNET ADDICTION PROBLEMS USING THE PERSPECTIVE OF ETHICAL THEORIES

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Nor Fazilah Mohd Hashim  
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**Room:** Deer Park  
**Session Chair:** Loye L. Ray

---

## Detection Systems & Security Testing

**IMPROVING TRAINING OF NEURAL NETWORK INTRUSION DETECTION SYSTEMS USING FUZZY LOGIC**

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**PHPBB3 BULLETIN BOARD SECURITY TESTING**

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Hayden Wimmer  
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Loreen Marie Powell  
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**Room:** Pike’s Peak  
**Session Chair:** Barbara Jo White

---

## Impact of a Pandemic

**VIRTUAL INTERNSHIPS: INTERDISCIPLINARY REMOTE WORK FOR UNDERGRADUATES DURING A PANDEMIC**

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Barbara Jo White  
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**A STUDY OF THE EFFECTIVENESS OF REMOTE INSTRUCTION FROM STUDENTS’ PERSPECTIVES**

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Shelly Bazemore  
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**Blockchain Technologies**

**IMPACT OF BLOCKCHAIN TECHNOLOGY ON THE CONTINUOUS AUDITING: MEDIATING ROLE OF TRANSACTION COST THEORY**  
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**BLOCKCHAIN IN IoT & PROJECT MANAGEMENT**  
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Joon-Yeoul Oh  
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<td><strong>Session Chair:</strong> Ellen Friedman</td>
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**Applications of Data Science**

**BENFORD’S LAW APPLIED TO PRECINCT LEVEL ELECTION DATA**  
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Rajkumar Kolakaluri  
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Manjeet Rege  
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### COMPARATIVE EFFICIENCY ANALYSIS OF HOSPITALS BASED ON THE REGION, OWNERSHIP & SERVICE USING DATA ENVELOPMENT ANALYSIS

Juyun Cho  
Colorado State University-Pueblo  
joey.cho@csupueblo.edu

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**Friday, October 9, 2020, 10:20 – 11:20 a.m. (Central Daylight Time)**

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#### IS Recruitment & Technologies

**HIGH SCHOOL STUDENTS’ PERCEPTIONS CASE STUDY: WHAT IS INFORMATION SYSTEMS?**

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Kodey S. Crandall  
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Matthew Noteboom  
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**THE IMPACT OF TECHNOLOGY ON RECRUITMENT PROCESS**

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Wenli Wang  
Robert Morris University  
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Yating Li  
Harrisburg University of Science of Technology  
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---

#### Panel

**HOW MENTORING PLAYS A ROLE IN RETAINING FEMALES & MINORITIES IN STEM DEGREES**

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David Wood  
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<td>Session Chair: Alan Peslak</td>
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**Student Engagement & Transition to Virtual Environments**

**IMPACT OF STUDENT ENGAGEMENT STRATEGIES ON VIDEO CONTENT IN LEARNING COMPUTER PROGRAMMING & ATTITUDES TOWARDS VIDEO INSTRUCTION THAT WAS DEVELOPED BASED ON THE COGNITIVE THEORY OF MULTIMEDIA LEARNING**

Peter Draus  
Robert Morris University  
draus@rmu.edu

**LEVERAGING DRAMATURGICAL ANALYSIS TO UNDERSTAND THE TRANSITION FROM FACE-TO-FACE TO VIRTUAL ENVIRONMENTS**

Paul D. Nugent  
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Richard Montague  
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**Career Readiness & Satisfaction**

**HOW GPA, GMAT, WORK EXPERIENCE & AGE PREDICT MBA STUDENTS’ READINESS FOR THE 4TH INDUSTRIAL REVOLUTION**

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Chris Davison  
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Edward J. Lazaros  
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**COMPUTER PROGRAMMING LANGUAGES IN 2020: WHAT WE USE, WHO USES THEM & HOW DO THEY IMPACT JOB SATISFACTION**

Alan Peslak  
Penn State University  
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Mauri Conforti  
Geisinger Health Systems  
maconfort1@geisinger.edu

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**CIST Teaching**

**A REFLECTIVE LEARNING APPROACH TO TEACHING COMPUTER AND INFORMATION TECHNOLOGY COURSES**

Ping Wang  
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wangp@rmu.edu

**SHOULD WE TEACH DATA VISUALIZATION USING DATA VISUALIZATION STYLE GUIDES?**

Kevin Lee Elder  
Georgia College & State University  
Kevin.Elder@GCSU.edu  
Amy Cesal  
Data Visualization Society  
Amy.Cesal@gmail.com

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### IoT in Higher Education

**TEACHING INTERNET OF THINGS (IoT) THROUGH SOFTWARE SIMULATIONS WITH PACKET TRACER**

*AWARD: Best Paper (Pedagogy)*

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<tr>
<td>Kevin Floyd</td>
<td>Middle Georgia State University</td>
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<tr>
<td>Zoroayka V. Sandoval</td>
<td>Middle Georgia State University</td>
<td><a href="mailto:vicky.sandoval@mga.edu">vicky.sandoval@mga.edu</a></td>
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**THE INTERNET OF THINGS (IoT) IN HIGHER EDUCATION: A PRELIMINARY STUDY**

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<td>M. Shane Banks</td>
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<td>Xihui Zhang</td>
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### Gaming

**TOWARD A CONCEPTUAL MODEL FOR UNDERSTANDING THE RELATIONSHIPS AMONG MMORPGS, GAMERS, AND ADD-ONS**

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<td>Southern Illinois University</td>
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<tr>
<td>Eric Jacobs</td>
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**GAMIFICATION IN PRESENTATION & TESTING & THEIR EFFECT ON PERFORMANCE**

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<td><strong>Session Chair:</strong> Jeanne M. Baugh</td>
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**Organizational Security & Cyber Defense**

**THE ORGANIZATIONAL SECURITY INDEX: A TOOL FOR ASSESSING THE IMPACT OF NATIONAL CULTURE ON INFORMATION SECURITY ATTITUDES IN SLOVENIA & THE UNITED STATES**

Fred Hoffman  
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Robert Joseph Skovira  
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**LESSONS ON THE POWER OF KNOWLEDGE FOR CYBER DEFENSE FROM SUN TZU’S THE ART OF WAR**

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**Learning Resources & Course Design**

**FACTORS AFFECTING THE CHOICE OF LEARNING RESOURCES BY STUDENTS**

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**OUTLINE OF A FIRST DATABASE COURSE**

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**Gender: Time Management & Job Ads**

**A COMPARISON OF TIME MANAGEMENT SKILLS AMONG ACCOUNTING, BUSINESS, AND INFORMATION SYSTEMS STUDENTS BY AGE & GENDER**

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**AN EXPLORATION OF GENDER BIAS IN INFORMATION TECHNOLOGY JOB ADVERTISEMENTS**

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<td>Session Chair: Suhong Li</td>
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### Programming & Artificial Intelligence

**DESIGN & IMPLEMENTATION FOR IORT BASED REMOTE CONTROL ROBOT USING BLOCK-BASED PROGRAMMING**
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**ARTIFICIAL INTELLIGENCE FACIAL EXPRESSION RECOGNITION FOR EMOTION DETECTION: PERFORMANCE & ACCEPTANCE**
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### Trust & Security

**UNDERSTANDING BLOCKCHAIN THROUGH SOCIAL MEDIA**
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**THE SOCIAL MEDIA MACHINES: AN INVESTIGATION OF THE EFFECT OF TRUST MODERATED BY DISINFORMATION ON USERS’ DECISION-MAKING PROCESS**
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<td><strong>Session Chair:</strong> Dexter Gittens</td>
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**Pandemic Response & Predictions using IT and Data Analytics**

**PANDEMIC RESPONSE: BEST PRACTICES IN IT LEADERSHIP**
Jason Davidson  
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**ACCURACY OF SIMPLE FORECASTING METHODS IN PREDICTING COVID-19 INCIDENCE IN NEW YORK CITY**
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Gary Alan Davis  
Robert Morris University  
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**Preparing Learners for Data Management & Programming**

**EMERGING TECHNOLOGY: INTRODUCING TABLEAU TO CIS & NON-CIS MAJORS IN A CORE BUSINESS CLASS**
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**Preparing Teaching Swift Programming & Actual Classroom Teaching**
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<th>Room: Eagle Ridge</th>
<th>Room: Redstone</th>
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<tr>
<td><strong>Session Chair:</strong> Matthew North</td>
<td><strong>Networking</strong></td>
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**Research Studies**

**AN EMPIRICAL STUDY OF KEYWORDS IN ISSUES IN INFORMATION SYSTEMS (2000-2019)**
Matthew North  
Utah Valley University  
mnorth@uvu.edu
Thomas Lombardi  
University of the Virgin Islands  
thomas.lombardi@uvi.edu

**A LITERATURE REVIEW OF KANBAN & SCRUM: HISTORY & EFFECTIVENESS**
Larry Rubin  
Middle Georgia State University  
larry.rubin@mga.edu

**Networking Available all day**
Join us here any time today to network with each other.
| Room: Deer Park  
Session Chair: Paul Stephens | Room: Pike’s Peak  
Session Chair: Donna M. Schaeffer |
|---|---|
| **Student Knowledge & Skills**  
FILE MANAGEMENT: STUDENT KNOWLEDGE OF FILE TYPE EXTENSIONS  
Paul Stephens  
Bradley University  
prs@fsmail.bradley.edu  
Matthew McGowan  
Bradley University  
mmcgowan@fsmail.bradley.edu | **IoT Challenges & Public Policy**  
EMERGING CHALLENGES WITH INTERNET OF THINGS  
Trisha Bartlett  
Robert Morris University  
tbst210@mail.rmu.edu  
THE INTERNET OF THINGS & PUBLIC POLICY  
Donna M. Schaeffer  
Marymount University  
donna.schaeffer@marymount.edu  
Patrick C. Olson  
National University  
polson@nu.edu |
| Room: Warm Springs  
Session Chair: Debra J. Borkovich | Room: Tiger Mountain  
Session Chair: G. Kent Webb |
| **Technology Applications in the Time of COVID-19**  
SMARTPHONE & COVID-19 CRISIS: HOW THE SMARTPHONE TECHNOLOGY IMPACTED LIFE UNDER COVID-19 PANDEMIC  
Sarah Alowais  
Robert Morris University  
sxast228@mail.rmu.edu | **Google Applications**  
PRICE & PERFORMANCE TRENDS FOR CELLULAR TRAIL CAMERAS EXPLAINED WITH A TIME TREND, GOOGLE KEYWORD TRENDS, & A USE CASE OF SUBURBAN DEER MANAGEMENT  
G. Kent Webb  
San Jose State University  
g.webb@sjsu.edu  
SENTIMENT ANALYSIS ON GOOGLE CLOUD PLATFORM  
AWARD: Jay Liebowitz Best Student Paper  
Terrence E. White  
University of St. Thomas  
tewhite@stthomas.edu  
Manjeet Rege  
University of St. Thomas  
rege@stthomas.edu |
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<td><strong>Session Chair:</strong> Jamie Pinchot</td>
<td><strong>Networking Available all day</strong></td>
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**Mobile Applications of Technology**

**USER EXPERIENCE (UX) DESIGN CONCEPTS FOR MOBILE APP DEVELOPMENT COURSES**
Jamie Pinchot  
Robert Morris University  
pinchot@rmu.edu

**THE IMPACT OF MOBILE APPLICATIONS ON MATERNITY EDUCATION: A QUANTITATIVE STUDY OF KENYA**
Hussein Abdinoor Mohamed  
Harrisburg University of Science & Technology  
hmohamed@harrisburgu.edu
Chaza Abdul  
Harrisburg University of Science & Technology  
abdul@harrisburgu.edu
Wenli Wang  
Robert Morris University  
wangw@rmu.edu
Nancy Mimm  
Harrisburg University of Science & Technology  
nmimm@harrisburgu.edu

**4:40 – 5:40 p.m. CDT**  
**JCIS Editorial Board Meeting**  
**Online Room:** Redstone
SATURDAY, OCTOBER 10, 2019

10:20 a.m. - 11:00 a.m. CDT

Conference Debriefing

Online Room: Redstone

Saturday, October 10, 2020, 8:00 – 9:00 a.m. (Central Daylight Time)

Room: Deer Park
Session Chair: Maria Elena Corbeil

Internet of Things in Higher Education
INTERNET OF THINGS IN HIGHER EDUCATION
Srečko Natek
International School for Social & Business Studies
srecko.natek@mfdps.si
Dušan Lesjak
University of Primorska & International School for Social and Business Studies
dusan.lesjak@mfdps.si

DID YOU KNOW? EDUCATIONAL APPLICATIONS FOR THE INTERNET OF THINGS
Joseph Rene Corbeil
The University of Texas Rio Grande Valley
rene.corbeil@utrgv.edu
Nicolas A. Suarez
Embry Riddle Aeronautical University
nicolas.a.suarez19@gmail.com
Maria Elena Corbeil
The University of Texas Rio Grande Valley
mariaelena.corbeil@utrgv.edu

Room: Pike’s Peak
Session Chair: Justin Henson

Digital Divide in Healthcare & Online Advertising
INFLUENCE OF THE DIGITAL DIVIDE & SOCIO-ECONOMIC FACTORS ON PREVALENCE OF DIABETES
Loknath Sai Ambati
Dakota State University
loknathsai.ambati@trojans.dsu.edu
Omar El-Gayar
Dakota State University
omar.el-gayar@dsu.edu
Nevine Nawar
Alexandria University
nawarnh@yahoo.com

COOKIES IN ONLINE ADVERTISING & THEIR IMPACT ON SHOPPING BEHAVIORS
Justin Henson
Ball State University
jwhenson@bsu.edu
Zach Johnson
Ball State University
zjohnson@bsu.edu
Peyton Jones
Ball State University
pmjones2@bsu.edu
Saeed Tabar
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stabar@bsu.edu
Sushil Sharma
Ball State University
ssharma@bsu.edu

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| Room: Warm Springs  
Session Chair: Natalya Bromall | Room: Tiger Mountain  
Session Chair: Kevin Mentzer |
|---|---|
| **Sentiment Analysis & Cloud Infrastructure**  
CONTEXT BASED SENTIMENT ANALYSIS APPROACH USING N-GRAM & WORD VECTORIZATION METHODS  
Parthasarathi Tumu  
University of St. Thomas  
part6550@stthomas.edu  
Vaghindra Manchenasetty  
University of St. Thomas  
vaghi.manchenasetty@stthomas.edu  
Manjeet Rege  
University of St. Thomas  
rege@stthomas.edu  
**SHIFTING TO CONTAINERIZED DEVELOPMENT IN ORGANIZATIONS WITH CLOUD-SUPPORTED INFRASTRUCTURE**  
Natalya Bromall  
Robert Morris University  
bromall@rmu.edu  
Kevin Slonka  
University of Pittsburgh  
kevinslonka@gmail.com  
Peter Draus  
Robert Morris University  
draus@rmu.edu  
Sushma Mishra  
Robert Morris University  
mishra@rmu.edu  
Amit Pandey  
FHLBank Pittsburgh  
dramitpandey@outlook.com |
| **Applications of Technology**  
INTERLOCKING BOARDS & THE CORPORATE ELITE: A 20-YEAR ANALYSIS OF THE S&P 500  
Kevin Mentzer  
Bryant University  
kmentzer@bryant.edu  
Ying Wang  
Bentley University  
ywang@bentley.edu  
Dominique Haughton  
Bentley University  
dhaughton@bentley.edu  
**AN ANALYSIS OF THE MOBILE READINESS OF THE U.S. STATE GOVERNMENT WEBSITES**  
Juyun Cho  
Colorado State University-Pueblo  
joey.cho@csupueblo.edu |
| Room: Eagle Ridge  
Session Chair: Meral Binbasioglu | Room: Redstone  
Networking |
| **Analytics Applications**  
EMBEDDING ANALYTICS IN BUSINESS PROCESS MANAGEMENT: A KNOWLEDGE-BASED APPROACH DRIVEN BY QUALITATIVE SYSTEM DYNAMICS MODELING  
Meral Binbasioglu  
Hofstra University  
Meral.Binbasioglu@hofstra.edu  
**LEVERAGING BLOCKCHAIN TECHNOLOGY FOR SMALL BUSINESSES**  
Mysore Ramaswamy  
Southern University  
mysore@acm.org |
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<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Room</th>
<th>Session Chair</th>
<th>Location</th>
<th>Chairholder(s)</th>
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<tr>
<td>9:10 – 10:10 a.m.</td>
<td>Conference Debriefing</td>
<td>Deer Park</td>
<td>Sara Bliss Kiser</td>
<td>Online Room: Redstone</td>
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<td>Majoring in IS &amp; Job Placement</td>
<td>Pike's Peak</td>
<td>Douglas Havelka</td>
<td>Redstone Room: Redstone</td>
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<td>Security &amp; Organizational Language</td>
<td>Deer Park</td>
<td>Sara Bliss Kiser</td>
<td>Deer Park Room: Deer Park</td>
<td>Thomas L. Ngo-Ye, Derek L. Nazareth, Jae J. Choi</td>
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<td>Language – How Does it Fit into One’s Culture (Organizational &amp; Otherwise)</td>
<td>Deer Park</td>
<td>Sara Bliss Kiser</td>
<td>Deer Park Room: Deer Park</td>
<td>Sara Bliss Kiser, Kimberly Johnson, Tammy Prater</td>
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<td>Deer Park</td>
<td>Sara Bliss Kiser</td>
<td>Deer Park Room: Deer Park</td>
<td>Michelle Johnson</td>
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**Room: Redstone Networking**

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10:20 a.m. - 11:00 a.m. CDT Conference Debriefing Online Room: Redstone
The *Journal of Computer Information Systems (JCIS)* aims to publish manuscripts that explore information systems and technology research and thus develop computer information systems globally.

We encourage manuscripts that cover the following topic areas:

- Analytics, Business Intelligence, Decision Support Systems in Computer Information Systems
- Mobile Technology, Mobile Applications
- Human-Computer Interaction
- Information and/or Technology Management, Organizational Behavior & Culture
- Data Management, Data Mining, Database Design and Development
- E-Commerce Technology and Issues in computer information systems
- Computer systems enterprise architecture, enterprise resource planning
- Ethical and Legal Issues of IT
- Health Informatics
- Information Assurance and Security-Cyber Security, Cyber Forensics
- IT Project Management
- Knowledge Management in computer information systems
- Networks and/or Telecommunications
- Systems Analysis, Design, and/or Implementation
- Web Programming and Development
- Curriculum Issues, Instructional Issues, Capstone Courses, Specialized Curriculum Accreditation
- E-Learning Technologies, Analytics, Future

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We would like to express our appreciation to the 2020 Editorial Review Board members who invested their time reviewing papers and providing authors valuable feedback for this year’s conference and Issues in Information Systems (IIS). We greatly appreciate your service and contributions.

Aaron Glassman  Embry-Riddle Aeronautical University
Agnieszka Bitkowska  Warsaw University of Technology
Alan Peslak  Penn State University
Alex Koohang  Middle Georgia State University
Alina Chircu  Bentley University
Allen Truell  Ball State University
Anna Losa-Jończyk  University of Economics in Katowice
Antonio Mauro  University of Northwest
Ashraf Shirani  San Jose State University
Assion Lawson-Body  University of North Dakota
Azad Ali  Indiana University of Pennsylvania
Bih-Ru Lea  Missouri University of Science & Technology
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Diane Igoche  Robert Morris University
Donna Cellante  Robert Morris University
Fatih Çetin  Niğde Ömer Halisdemir University
G. Kent Webb  San Jose State University
Gary Janchenko  Robert Morris University
George Stefanek  Purdue University Northwest
Hanna Görksa-Warsewicz  Warsaw University of Life Sciences - SGGW
Hubert D Cruze  University of Maryland
Iwona Otola  Czestochowa University of Technology
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Jamie Pinchot  Robert Morris University
Jason James  Indiana State University
Jay Wang  Indiana University of Pennsylvania
Jean Pratt  University of Wisconsin- Eau Claire
Jennifer Flynn  Western Connecticut State University
Jennifer Breese  Penn State Greater Allegheny
Jensen Zhao  Ball State University
Jianfeng Wang  Indiana University of Pennsylvania
Joanna Paliszkiewicz  Warsaw University of Life Sciences - SGGW
John Scarpino  Pittsburgh Technical College
John Girard  Middle Georgia State University
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<th>Name</th>
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<td>Joon-Yeoul Oh</td>
<td>Texas A&amp;M University-Kingsville</td>
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<td>Joseph Compomizzi</td>
<td>Florida Atlantic University</td>
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<td>Joseph Rene Corbeil</td>
<td>The University of Texas Rio Grande Valley</td>
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<td>Judy Wynekoop</td>
<td>Florida Gulf Coast University</td>
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<td>Kamel Rouibah</td>
<td>Kuwait University</td>
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<td>Katarzyna Lukasik</td>
<td>Czestochowa University of Technology</td>
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<td>Konrad Michalski</td>
<td>Warsaw University of Life Sciences – SGGW</td>
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<td>Kuanchin Chen</td>
<td>Western Michigan University</td>
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<td>Laura Atkins</td>
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<td>Magdalena Mądra-Sawicka</td>
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<td>M S Ramaiah Institute of Technology</td>
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<td>Nitin Jain</td>
<td>Independent Researcher</td>
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<td>Oleksandr Dluhopolskyi</td>
<td>Ternopil National Economic University</td>
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<td>Piotr Pietrzak</td>
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<td>Carson-Newman University</td>
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<td>Sushma Mishra</td>
<td>Robert Morris University</td>
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<td>Thaddeus Shannon</td>
<td>Western Oregon University</td>
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<td>Davenport University</td>
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<td>Pittsburg State University</td>
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<td>Zefeng Bai</td>
<td>Bentley University</td>
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<td>Zoroayka Sandoval</td>
<td>Middle Georgia State University</td>
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Conference Theme: Big Data Analytics
The theme of the 2021 IACIS conference is Big Data Analytics. You are invited to share your research in practice and pedagogical topics related to Big Data Analytics that focus on current and emerging topics such as Leadership and Culture: Building Resilient Curriculum; Emerging Technologies with Disruption; Business Skills for Data and Analytics Professors; AI; Data Science; Machine Learning; Data Architecture; Big Data Analytics Outcomes and Strategy; Leadership and Culture; Security; Privacy; Cybersecurity; Teaching Big Data Analytics strategies; New courses for Big Data Analytics. Other relevant topics are listed under suggested topics.

Submission Deadline
To meet conference deadlines, all submissions MUST be submitted online by May 30, 2021. Important: Please note that all submissions (full papers, extended abstracts, & abstracts) must be submitted by the deadline above to undergo the double-blind, peer review process and be considered for publication in either the Issues in Information Systems (IIS) or the conference proceedings.

What to Submit
You are invited to share your research on the conference theme or other relevant IS and IT research with the educators and professionals attending the IACIS International Conference. Papers covering related academic and technical issues are also encouraged. Submit Full pedagogy/research papers, Abstracts, or Panel presentation proposals. Submit only unpublished, original works. Proposals for workshops, panel presentations, and round table discussions should provide a general overview of the session's objectives and activities.

Publication Opportunity
All submissions are double-blind refereed. All high-marked full papers accepted in the review process will be fast-tracked for publication in Volume 22 of Issues in Information Systems, a publication of IACIS. Issues in Information Systems journal is a refereed, serial publication that is registered with the U.S. Library of Congress and listed in the Cabell's Directory of Publishing Opportunities in Management. All other accepted submissions will be published in the Conference Proceedings.

Where to Submit
Please visit the following link to submit online: https://iacis.org/conference/openconf-annual/openconf/openconf.php

Suggested Topics
Please visit: https://iacis.org/conference/conference.php

Conference Chair Contact Information
Dr. Joanna Paliszkiewicz, Conference Chair & Vice President
Warsaw University of Life Sciences - SGGW
Email: IACIS_Conference@IACIS.org or joanna_paliszkiewicz@sggw.edu.pl

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