



International Association for
Computer Information Systems

Conference Program

59th Annual International Conference
October 2 - 5, 2019
Clearwater Beach Marriott Suites on Sand Key
Clearwater Beach, Florida

Conference Theme: Cybersecurity



WELCOME

Welcome to the 59th Annual Conference for the International Association for Computer Information Systems. This year, we are hosting the conference in beautiful Clearwater Beach Florida.

This year's theme, *The Convergence of IS and EdTech for Enhancing Educational Processes and Supporting Organizations*, was embraced by this year's authors. Full papers, panels, and presentations range in topics from cybersecurity curriculum design and development; aligning cybersecurity curriculum to Center for Academic Excellence Security education & training; security risk; security awareness; security threats and prevention; human elements; trust; information security compliance; Internet of Things (IoT) security; mobile security; protecting data; and others.

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 publication in IACIS journal, *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 58th Annual IACIS Conference, and for your continued support. We look forward to lively and meaningful presentations, discussions, and collegial networking.

IACIS EXECUTIVE BOARD MEMBERS

IACIS Executive Director	Robert P. Behling
IACIS Managing Director	Daryl Nord
IACIS Treasurer & Director of Conference Arrangements	Susan Haugen Behling
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IACIS Technology & Operation Director	Alex Koohang
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IACIS Vice President & 2019 Conference Chair	Maria Elena Corbeil
IACIS Secretary & IIS Editor	Joanna Paliszkievicz

ACKNOWLEDGEMENTS

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

AWARD RECIPIENTS



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

PROGRAM OVERVIEW

Wednesday, October 2, 2019		Location
6:00 - 8:00 p.m.	Registration	Veranda
6:00 - 8:00 p.m.	Welcome Reception	Veranda

Thursday, October 3, 2019		Location
8:00 a.m. - 4:00 p.m.	Registration	Ballroom Foyer
7:30 – 9:00	Breakfast	Ballroom Foyer
8:30 – 9:00	General Session- Welcome	Redington/Bellair
9:00 – 10:00	Keynote Address	Redington/Bellair
10:10 – 11:10	Concurrent Presentation Sessions	Siesta Key Madeira Longboat Key Indian Shores
11:20 – 12:20	Concurrent Presentation Sessions	Siesta Key Madeira Longboat Key Indian Shores
12:20 – 1:20	Networking Lunch	Redington/Bellair
1:20 – 2:20	Concurrent Presentation Sessions	Siesta Key Madeira Longboat Key Indian Shores
2:30 – 3:30	Concurrent Presentation Sessions	Siesta Key Madeira Longboat Key
3:30 – 3:40	Refreshment Break	Ballroom Foyer
3:50 – 4:50	Concurrent Presentation Sessions	Siesta Key Madeira Indian Shores
6:00 – 11:00 p.m.	Fun Night	Poolside South

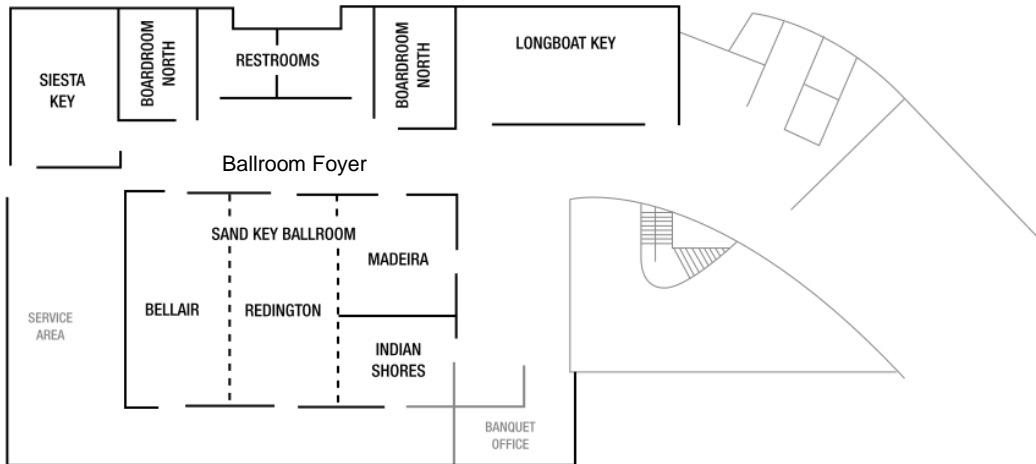
Friday, October 4, 2019		Location
8:00 a.m. – 4:00 p.m.	Registration	Ballroom Foyer
7:30 – 9:00	Breakfast	Ballroom Foyer Redington/Bellair
9:00 – 10:00	Concurrent Presentation Sessions	Siesta Key Madeira Indian Shores
10:10 – 11:10	Concurrent Presentation Sessions	Siesta Key Madeira Indian Shores
11:10 – 11:20	Refreshment Break	Ballroom Foyer
11:20 – 12:20	Concurrent Presentation Sessions	Siesta Key Madeira Indian Shores
12:20 – 2:20	Business Luncheon & Awards	Redington/Bellair

2:20 – 3:20	Concurrent Presentation Sessions	Siesta Key Indian Shores	Madeira
3:30 – 4:30	Concurrent Presentation Sessions	Siesta Key Indian Shores	Madeira
3:30 – 4:30	JCIS Editorial Board Meeting	Longboat Key	

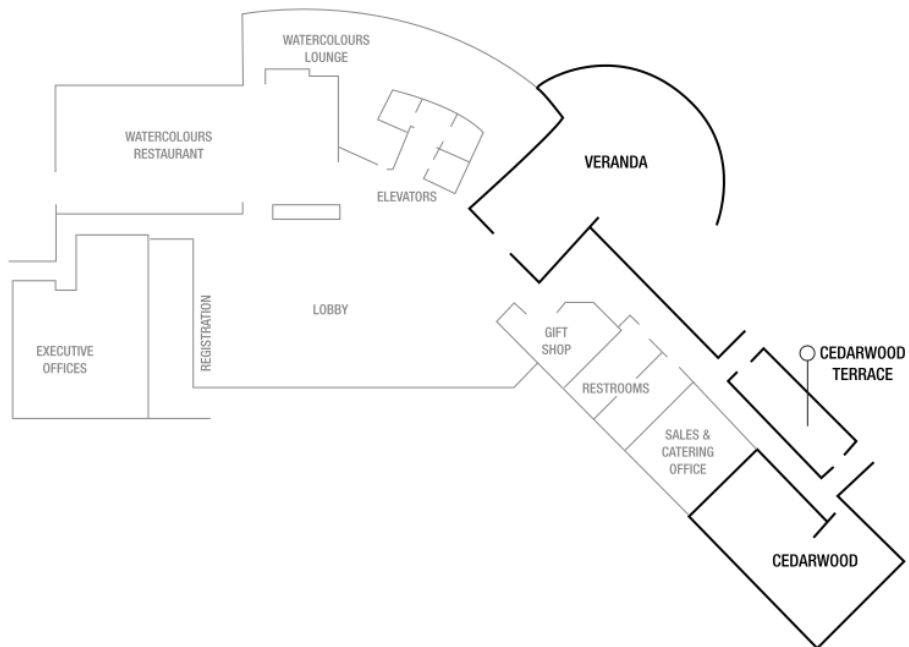
Saturday, October 5, 2019		Location	
8:00 – 10:00 a.m.	Registration	Ballroom Foyer	
7:30 – 9:00	Breakfast	Ballroom Foyer Redington/Bellair	
9:00 – 10:00	Concurrent Presentation Sessions	Siesta Key Longboat Key	Madeira
10:00 – 10:10	Refreshment Break	Ballroom Foyer	
10:10 – 11:20	Concurrent Paper Sessions	Siesta Key Longboat Key	Madeira
11:20 – 12:00	Conference Debriefing	Redington/Bellair	

The Clearwater Beach Marriott Suites on Sand Key Meeting & Conference Rooms

MEETING LEVEL SECOND FLOOR



LOBBY LEVEL GROUND FLOOR



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INTERNATIONAL ASSOCIATION FOR COMPUTER INFORMATION SYSTEMS

KEYNOTE ADDRESS SPEAKER

LYNNE CLARK

Lynne Clark is Chief of the NSA/DHS National Centers of Academic Excellence in Cyber Defense (CAE-CD) Program Office. She has 40 years of combined military and civilian service. She received her Air Force commission in 1978 and joined NSA in 1999. Ms. Clark and her team manage CAE-CD program office functions such as establishing and maintaining designation criteria, collecting and adjudicating designation applications, working with participating schools to bring new schools into the program, strategic planning, managing grants, and on behalf of DoD-CIO, managing the DoD Cyber Scholarship program.



Ms. Clark facilitates partnerships with federal departments and agencies, collaborates with designated colleges and universities, and represents the National Security Agency at meetings and events. Prior to this assignment, Ms. Clark was Deputy Chief of Workforce Resources, Education and Development for NSA's Information Assurance Directorate (IAD). This included responsibility for IAD's hiring and intern programs, education and professional development for IAD personnel.

From 1993 to 2012, Ms. Clark was assigned to the Interagency OPSEC Support Staff, where she had responsibility for Operations Security (OPSEC) training, program development consultation, and OPSEC risk analysis services to all Federal Departments and Agencies with a national security mission. During her tenure at the IOSS, she participated in several interagency working groups, most notably as Chair of the National Security Policy Board's OPSEC and Risk Management Working Group. She is the recipient of the Meritorious Civilian Service Award, was twice awarded the Joint Meritorious Unit Award for IOSS special projects in support of the Department of Defense, and the National Intelligence Meritorious Unit Citation for support to the Intelligence Community.

Prior to her tenure at the IOSS, Ms. Clark served in the U.S. Air Force with worldwide assignments in airspace management, radar operations and operations risk management. She spent eight years serving in NATO during the Cold War and during the Germany reunification. She was involved in development of secure range operations for military RDT&E facilities, advised on risk management issues involved in the START and Open Skies treaties, and managed the Air Force OPSEC Program at the Pentagon. She retired at the rank of Lieutenant Colonel in 1999.

Ms. Clark's academic credentials include a Master's 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.

IACIS AWARD RECIPIENTS

2019 Computer Educator of the Year

Richard V. McCarthy

Richard V. McCarthy is a Professor of Computer Information Systems in the School of Business at Quinnipiac University. For many years, prior to his academic career, Professor McCarthy worked in industry. He first served as Programmer Analyst for Aetna Life and Casualty, Project Leader for Bath Iron Works, and Information Systems Director for Travelers Insurance Group. In 1991, he was designated a Chartered Property Casualty Underwriter.



He began his academic career as an Associate Professor at Central Connecticut State University in 1999 and accepted an appointment as Professor of CIS at Quinnipiac University in 2001.

During his career Professor McCarthy has been a prolific researcher and writer, publishing more than 50 academic manuscripts, including 15 book chapters, case studies and instructor manuals, and more than 40 conference proceedings. He has also done 5 book reviews, served on 7 doctoral dissertation committees, completed 11 external faculty reviews for tenure and promotion, and completed three external university program reviews. Service includes serving on more than 30 university wide and college committees, serving as Associate Dean from 2008 - 20012, currently serving as Director of the MS in Business Analytics program, serving as President of the International Association for Computer Information Systems, serving on the Board of Directors of Enterprise Architecture Body of Knowledge, a federally funded research and development center, and serving as an Advisory Board member for Procedia Computer Science Education.

Community service includes service on his church Parish Council, the Town of Hamden Technology Commission, Little League coach and head of the Umpires Committee, Service on the Information Technology Task Force, Secretary of State of Connecticut, Chair, Mid-State Special Olympics, and Softball Coach for Connecticut's team at the International Special Olympics.

We congratulate the 2019 Computer Educator of the Year, Professor Richard V. McCarthy, for his outstanding record of achievement, his scholarship, and his contributions to his profession, the university, his students, and his community.

2019 Ben Bauman Award for Excellence

Bryan Marshall

The Ben Bauman Award for Excellence recognizes faculty excellence and service. Dr. Bryan Marshall's career exemplifies significant and long-term service to the profession, academic and scholarly achievements, and mentoring and leadership of students.



He is a Professor of Information Systems in the J. Whitney Bunting College of Business at Georgia College and State University.

Over the years, Professor Marshall has taught nearly all the undergraduate Information Systems course offerings, including Programming, Networking, Web Design, Electronic Commerce, System Administration and System Security. Graduate courses taught include International Business, Project Management, and Information Planning and Strategies. He has also served on several dissertation committees.

Professor Marshall is also an active researcher and scholar. He has published more than 25 research manuscripts, made numerous research presentations, and received several research grants from his home university and from Microsoft. Academic awards include the *2008 IACIS Best Research Paper Award*, the *2011 GC&SU McMillan Faculty Award*. His service includes mentoring students. His students show notable achievements. For example, he was the faculty mentor of the students who won the *2018 IACIS Jay Liebowitz Student Research Award* at IACIS.

Service to his university includes many committee assignments at both the departmental and university level, and service as a member and Chair of the Senate Academic Policy Committee. He serves as MIS Assessment Director, Economic Club Faculty Advisor, Association of Information Systems Faculty Advisor, Beta Alpha Psi Faculty Advisor and Department Server Administrator. He also serves as an academic journal manuscript reviewer and has served as a Board member for several local community service organizations.

We congratulate the 2019 Ben Bauman Award for Excellence winner, Professor Bryan Marshall, for his significant record of service to the profession, as well as his university, department, students, and community.

Jay Liebowitz Outstanding Student Research Award

RESEARCH ON SECURITY VISUALIZATION: A SURVEY

Shuyi Liu
Wu He
Xin Tian

Best Paper Award – Pedagogy

INCREASING THE EFFECTIVENESS OF THE CYBERSECURITY TEACHING & LEARNING BY APPLYING ACTIVITY THEORY AND NARRATIVE RESEARCH

Constanta-Nicoleta Bodea
Maria-Iuliana Dascalu
Mihail Cazacu

Best Paper Award – Pedagogy (Honorable Mention)

ON SOLID GROUND: TESTING A THEORETICAL MODEL FOR STUDENT TEAM PROJECT DELIVERY & USING IT TO ASSESS STUDENT TEAM CRISIS MANAGEMENT & TRUST

Michael Lohle
Steven Terrell

Best Paper Award – Research

ANTECEDENTS TO SUCCESSFUL SOFTWARE TRAINING: A RESEARCH FRAMEWORK & PRELIMINARY EVIDENCE

Douglas Havelka
T.M. Rajkumar

Best Paper Award – Research (Honorable Mention)

CONDUCTING SYSTEMATIC LITERATURE REVIEWS IN INFORMATION SYSTEMS: AN ANALYSIS OF GUIDELINES

Zefeng Bai
Nitin Jain
Roman Kurdyukov
Joanna Walton
Ying Wang
Tyler Wasson
Xiaolin Zhu
Alina M. Chircu

CONFERENCE SCHEDULE

Wednesday, October 2, 2019

Wednesday, October 2, 2019		Location
6:00 - 8:00 p.m.	Registration	Veranda
6:00 - 8:00 p.m.	Welcome Reception	Veranda

Thursday, October 3, 2019

8:00 a.m. - 4:00 p.m.	Registration	Ballroom Foyer
7:30 - 9:00 a.m.	Breakfast	Ballroom Foyer & Redington/Bellair
8:30 - 9:00 a.m.	General Session- Welcome	Redington/Bellair

9:00 – 10:00	Keynote Address by Lynne Clark <i>Bridging Higher Education Cybersecurity Curriculum to the Guidelines of Center for Academic Excellence</i>	Redington/Bellair
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Thursday, October 3, 10:10 – 11:10 a.m.

Room: Siesta Key Session Chair: George Stefanek	Room: Longboat Session Chair: Lisa Z. Bain
<p>AN EVALUATION OF A MULTILINGUAL CHATBOT Mahesh Vanjani Texas Southern University mahesh.vanjani@tsu.edu Jamison Posey University of Mississippi jposey@bus.olemiss.edu Milam Aiken University of Mississippi maiken@bus.olemiss.edu</p> <p>A FRAMEWORK FOR A SMARTPHONE NATURAL LANGUAGE-DRIVEN HEALTHCARE MONITOR & ADVISOR USING WEARABLE DEVICES Purdue University Northwest George Stefanek, stefanek@pnw.edu Marianne Curia, mcuria@pnw.edu Janet Garwood, jgarwo07@pnw.edu</p> <p>MEASURING IMPACT OF ILLINOIS MINIMUM WAGE INCREASES ON ACADEMIC PROGRAM RETENTION: A CRITICAL INSTANCE CASE STUDY James D. Sissom Southern Illinois University Carbondale jsissom@siu.edu</p>	<p>STUDENT PERCEPTIONS OF SKILL & COMPETENCIES NEEDED FOR CYBERSECURITY PROGRAMS & CAREERS Robert Morris University Sushma Mishra, mishra@rmu.edu Jamie Pinchot, pinchot@rmu.edu Donna Cellante, cellante@rmu.edu Karen Pullet, pullet@rmu.edu</p> <p>APPLYING A SCRUM FRAMEWORK TO TEACH SYSTEMS ANALYSIS AND DESIGN Jean A. Pratt University of Wisconsin-Eau Claire prattja@uwec.edu</p> <p>REFLECTIONS ON SECURITY COURSES IN CIS CURRICULUM AFTER ATTENDING A CAE WORKSHOP Rhode Island College Lisa Z. Bain lbain@ric.edu Suzanne Mello-Stark Rhode Island College smellostark@ric.edu</p>

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Thursday, October 3, 10:10 – 11:10 a.m.

Room: Madeira
Session Chair: Karen Pullet

**MAPPING THE STRUCTURE OF A TWITTER
“SECURITY EXPERT” SOCIAL NETWORK**

John E. Anderson
Utah Valley University
janderson@uvu.edu
Daniel McDonald
Utah Valley University,
Daniel.McDonald@uvu.edu

**PREDICTORS OF SUCCESS IN SECURITY
& DATA PROTECTION AWARENESS OF
MOBILE DEVICES: TRUST & PRIVACY**

Alex Koohang
Middle Georgia State University
alex.koohang@mga.edu
Joanna Paliszkievicz
Warsaw University of Life Sciences
joanna_paliszkiewicz@sggw.pl
Jeretta Horn Nord
Oklahoma State University
jeretta.nord@okstate.edu
Karen Pullet
Robert Morris University
pullet@rmu.edu
Tara Underwood
Middle Georgia State University
tara.underwood@mga.edu

**LEARNER SECURITY & PRIVACY
RISKS: HOW USAGE OF ONLINE
SOCIAL MEDIA OUTSIDE A LEARNING
MANAGEMENT SYSTEM AFFECTS
LEARNERS’ DIGITAL IDENTITY**

Loreen M. Powell
Bloomsburg University of PA
lpowell@bloomu.edu
Hayden Wimmer
Georgia Southern University
hwimmer@georgiasouthern.edu
Carl Rebman
University of San Diego
carlr@sandiego.edu
Chaza Abdul al
Harrisburg University
cabdul@harrisburgu.edu

Room: Indian Shores
Session Chair: Fred Kohun

**ECONOMIC COSTS AND IMPACTS OF BUSINESS
DATA BREACHES**

Ping Wang
Robert Morris University
wangp@rmu.edu
Hubert D’Cruze
University of Maryland
hubert.dcruze@yahoo.com
David Wood
Robert Morris University
wood@rmu.edu

**OPTIMIZING PREDICTIVE MODELS USING
AN ANTI-MONEY LAUNDERING CASE**

Richard McCarthy
Quinnipiac University
Richard.mccarthy@quinnipiac.edu
Mary McCarthy
Central Connecticut State University
mary.mccarthy@ccsu.edu

**SECURE PROTOCOLS & VIRTUAL PRIVATE
NETWORKS: AN EVALUATION**

Raymond Angelo
Quinnipiac University
raymond.angelo@quinnipiac.edu

Room: Siesta Key
Session Chair: Joy J. Godin

Room: Longboat Key
Session Chair: Joseph Compomizzi

**ON SOLID GROUND:
TESTING A THEORETICAL MODEL
FOR STUDENT TEAM PROJECT
DELIVERY & USING IT TO ASSESS
STUDENT TEAM CRISIS MANAGEMENT
& TRUST**



Michael Lohle
University of Bridgeport
mlohle@bridgeport.edu
Steven Terrell
Nova Southeastern University
terrell@nova.edu

**USING DESIGN THINKING STRATEGIES
AND VIRTUAL REALITY IN GLOBAL
VIRTUAL TEAMS**

Joy J. Godin
Georgia College & State University
joy.godin@gcsu.edu
Jeannie Pridmore
University of West Georgia
jpridmor@westga.edu

**PROPOSING A NEW GRADUATE DEGREE
IN DATA ENGINEERING & ANALYTICS**

Kimberly W. Bartholomew
Utah Valley University
barthoki@uvu.edu
John E. Anderson
Utah Valley University
jandrerson@uvu.edu

**IMPLEMENTING QUALITY MATTERS
IN AN ONLINE HEALTHCARE ADMINISTRATION
COMMUNICATIONS COURSE**

Joseph Compomizzi
Florida Atlantic University
jcompruzzi@fau.edu
Adnan Chawdhry
California University of Pennsylvania
chawdhry_a@calu.edu
Karen Pullet
Robert Morris University
pullet@rmu.edu
Gary Janchenko
Robert Morris University
janchenko@rmu.edu

**INTEGRATING EXPERIENTIAL LEARNING:
USING AN EHR SYSTEM TO TEACH CDSS
IN HEALTH INFORMATICS**

Kalyani Ankem
Northern Kentucky University ankemk1@nku.edu
Vishal Uppala
North Dakota State University
vishal.uppala@ndsu.edu
Adam Durst
Mercy Health
amdurst@mercy.com

**BROADENING PARTICIPATION
IN CYBERSECURITY EDUCATION:
USING AN INTERSECTIONALITY LENS
TO UNCOVER NEW PERSPECTIVES**

Debra Nakama
University of Hawaii Maui
debran@hawaii.edu
Karen Pullet
Robert Morris University
pullet@rmu.edu

Thursday, October 3, 11:20 a.m. – 12:20 p.m.

<p>Room: Madeira Session Chair: D. Scott Hunsinger</p>	<p>Room: Indian Shores Session Chair: Anthony Rodi</p>
<p>CYBERSECURITY LEADERSHIP: TRUST, EMPOWERMENT & COMPETENCE Petros G. Malakyan Robert Morris University malakyan@rmu.edu Wenli Wang Robert Morris University wangw@rmu.edu Norman R. Hayes George Washington University Norman_Hayes@msn.com</p> <p>CYBER CRIME AND CYBER SECURITY AWARENESS AMONG STUDENTS: A COMPARATIVE STUDY IN ISRAEL & SLOVENIA Dušan Lesjak University of Primorska dusan.lesjak@fm-kp.si Moti Zwilling Ariel Universit motiz@ariel.ac.il Galit Klein Ariel Universit galitk@ariel.ac.il</p> <p>WHAT IS CYBERSECURITY & WHAT CYBERSECURITY SKILLS ARE EMPLOYERS SEEKING? Alan Peslak Penn State University arp14@psu.edu D. Scott Hunsinger Appalachian State University hunsingerds@appstate.edu</p>	<p>USING DIGITAL BADGES TO PROMOTE PROFESSIONAL DEVELOPMENT IN HIGHER EDUCATION Gary Janchenko Robert Morris University janchenko@rmu.edu Anthony Rodi University of Pittsburgh afrodi@pitt.edu</p> <p>INTEGRATING STACKABLE, COMPETENCY-BASED MICROCREDENTIALS INTO ACADEMIC PROGRAMS Maria Elena Corbeil University of Texas at Rio Grande Valley mariaelena.corbeil@utrgv.edu Joseph Rene Corbeil University of Texas at Rio Grande Valley rene.corbeil@utrgv.edu</p> <p>EXAMINING THE EFFECTS OF QUALITY MATTERS RUBRICS FOR HIGHER EDUCATION ON COURSE DESIGN THROUGH TECHNOLOGY ACCEPTANCE MODEL LENS Wei Sha Pittsburg State University wsha@pittstate.edu</p>

<p>12:20 - 1:20 p.m.</p>	<p>Networking Lunch Redington/Bellair</p>
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Thursday, October 3, 1:20 – 2:20 p.m.

Room: Siesta Key
Session Chair: Azad I. Ali

Room: Longboat Key
Session Chair: Paul D. Nugent

YOU'VE BEEN HACKED: A TECHNIQUE FOR RAISING CYBER SECURITY AWARENESS

David T. Smith
Indiana University of Pennsylvania
dtsmith@iup.edu
Azad I. Ali
Indiana University of Pennsylvania
azadali@iup.edu

A LONGITUDINAL STUDY OF FACEBOOK PRIVACY POLICIES

Alan Peslak
Penn State University
arp14@psu.edu
Mauri Conforti
Geisinger Health Systems
maconforti1@geisinger.edu

PRIVACY AND SECURITY TRIBULATIONS IN THE DIGITAL CULTURE

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

PAIRING CONSTRUCTIVISM WITH THE MULTIDISCIPLINARITY OF IS EDUCATION

Samuel B. Fee
Washington & Jefferson College
sfee@washjeff.edu
Amanda Holland-Minkley
Washington & Jefferson College,
ahollandminkley@washjeff.edu
Thomas Lombardi
University of the Virgin Islands,
thomas.lombardi@uvi.edu

THE ROLE OF TRADITION IN SYSTEMS ENGINEERING PRACTICE A PRELIMINARY ETHNOGRAPHIC STUDY

Paul D. Nugent
Western Connecticut State University
nugentp@wcsu.edu
Jennifer Flynn
Western Connecticut State University
flynnj@wcsu.edu

THE USE OF MACHINE LEARNING IN HIGHER EDUCATION

Frank Swiontek
University of North Dakota
frank.swiontek@und.edu
Assion Lawson-Body
University of North Dakota
alawsonbody@business.und.edu
Laurence Lawson-Body
University of North Dakota,
laurence.lawsonbody@business.und.edu

Room: Madeira
Session Chair: Wenli Wang

**INDUSTRIAL INTERNET OF THINGS
VULNERABILITIES AND THREATS:
WHAT STAKEHOLDERS NEED
TO CONSIDER**

Fred Hoffman
Mercyhurst University
fhoffman@mercyhurst.edu

**MINDFUL WEB DEVELOPMENT:
A CASE STUDY**

Wenli Wang
Robert Morris University
wangw@rmu.edu
Steven P. Niles
Los Angeles City College,
nilessp@lacitycollege.edu

**A NOVEL OS-ELM CLASSIFIER BASED
ON HOG FEATURE EXTRACTION & VIOLA
JONES ALGORITHM FOR FACIAL
RECOGNITION**

Ankit Rajpal
University of Delhi
ankit.rajpal@ieee.org
Anurag Mishra
University of Delhi
anurag_cse2003@yahoo.com
Khushwant Sehra
Guru Gobind Singh Indraprastha University
sehrakhushwant@gmail.com

Room: Indian Shores
Session Chair: Peter Draus

**COMPARISON OF PUBLISHED PROGRAM
OUTCOMES WITH STUDENT & FACULTY
EXPECTED OUTCOMES USING A
CONSTRUCTIVIST ALIGNMENT APPROACH**

Peter Draus
Robert Morris University
draus@rmu.edu

**THE YIN & YANG OF A DOCTOR OF SCIENCE
IN INFORMATION SYSTEMS
& COMMUNICATIONS PROGRAM: PERSONAL
REFLECTIONS AND REVERSE ENGINEERING**

Fred Hoffman
Mercyhurst University
fhoffman@mercyhurst.edu
Chaojie Wang
The MITRE Corporation
cjwang@mitre.org*
Alvi Lim
The MITRE Corporation
alim@mitre.org
Jin Kwon
Robert Morris University
jhkst187@mail.rmu.edu

**CONDUCTING SYSTEMATIC
LITERATURE REVIEWS IN
INFORMATION SYSTEMS:
AN ANALYSIS OF GUIDELINES**

Bentley University
Zefeng Bai, zbai@bentley.edu
Nitin Jain, njain@bentley.edu
Roman Kurdyukov, rkurdyukov@bentley.edu
Joanna Walton, jwalton@bentley.edu
Ying Wang, ywang@bentley.edu
Tyler Wasson, twasson@bentley.edu
Alina M. Chircu, achircu@bentley.edu
Renmin University of China
Xiaolin Zhu, zhuxiaolin@ruc.edu.cn



Room: Siesta Key
Session Chair: Gary Alan Davis

Room: Longboat Key
Session Chair: Matthew North

BIG DATA STUDIES: A SYSTEMATIC REVIEW

Mehmet Ali Köseoglu
The Hong Kong,
MehmetAli.Koseoglu@polyu.edu.hk
Mehmet Yildiz
Yildirim Beyazit University
yildiz@ybusm.info
John P. Girard
Middle Georgia State University,
john.girard@mga.edu

**EXTENDED TECHNOLOGY ACCEPTANCE
OF MOBILE TECHNOLOGY IN HIGHER ED:
A RELIABILITY & VALIDITY TEST OF A SCALE**

Dennis Pires
Bethune Cookman University
dennis.pires@cookman.edu
Leila Halawi
Embry Riddle Aeronautical University,
halawil@erau.edu

**UPSKILLING & RETRAINING IN DATA
ANALYTICS: A SKILL-ADJACENCY
ANALYSIS FOR CAREER PATHS**

Ashraf Shirani
San Jose State University
ashraf.shirani@sjsu.edu

**THE ANCIENT SECRETS OF INFORMATION
MANAGEMENT**

Ronald Fuller
The Institute for Logic and the Public Interest
rgfuller@logicandbusiness.org
Matthew North
Utah Valley University
mnorth@uvu.edu
Peter Cardon
University of Southern California
cardon@marshall.usc.edu

**LEARNING OUTCOME EFFECTIVENESS:
OPEN-SOURCE VERSUS COMMERCIALY
LICENSED DATA MINING SOFTWARE TOOLS**

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

**PREPARING TO TEACH ON THE CLOUD NEXT
TIME: ADAPTING TO LESSONS FROM FIRST
TIME TEACHING ON THE CLOUD**

Azad Ali
Indiana University of Pennsylvania
azad.ali@iup.edu
David Smith
Indiana University of Pennsylvania
David.smith@iup.edu

Thursday, October 3, 2:30 – 3:30 p.m.

Room: Madeira
Session Chair: Suhong Li

**A PRELIMINARY INVESTIGATION
OF QUALITY METRICS AND PERFORMANCE
FOR SELECTED INSTITUTIONS DELIVERING
TECHNOLOGY MEDIATED HIGHER
EDUCATION**

Suhong Li
Bryant University
sli@bryant.edu
Kamel Rouibah
Kuwait University
ghallawy@gmail.com
Hal Records
Bryant University
hrecords@bryant.edu
Robert Behling
Arrowrock Industries
behlingr@hotmail.com

**APPROPRIATE SAMPLE FOR TECHNOLOGY
ADOPTION STUDIES IN TECHNICAL
EDUCATION**

Shannon W. Beasley
Middle Georgia State University
shannon.beasley@mga.edu

**WHAT REALLY MATTERS IN ONLINE
EDUCATION?**

Wenli Wang
Robert Morris University
wangw@rmu.edu
Alan Peslak
Penn State University
arp14@psu.edu
Paul Kovacs
Robert Morris University
kovacs@rmu.edu
Lisa Kovalchick
California University of Pennsylvania
kovalchick@calu.edu

3:30 - 3:40 p.m.

Refreshment Break Ballroom Foyer

Room: Siesta Key

Session Chair: Carl M. Rebman Jr.

THE AGILE PROJECT MANAGEMENT UNDERPINNINGS: BACKLOG REFINEMENT, TEAM COMPOSITION, AND BACKLOG PREPARATION

Rosarito Sánchez-Morcilio
University of Puerto Rico
Río Piedras Campus
rosarito.sanchez@upr.edu

Francisco Quiles-Torres
University of Puerto Rico
Río Piedras Campus
francisco.quiles@upr.edu

EXAMINING A DEEP LEARNING NETWORK SYSTEM FOR IMAGE IDENTIFICATION & CLASSIFICATION FOR PREVENTING UNAUTHORIZED ACCESS FOR A SMART HOME SECURITY SYSTEM

Beloved Egbedion
Georgia Southern University
be02054@georgiasouthern.edu

Hayden Wimmer
Georgia Southern University
hwimmer@georgiasouthern.edu

Carl M. Rebman Jr.
University of San Diego
carlr@sandiego.edu

Loreen M. Powell
Bloomsburg University
powell@bloomu.edu

IS WECHAT SOCIAL TECHNOLOGY FITTING TO A WECHAT BRAND GROUP?

Linwu Gu
Indiana University of Pennsylvania,
gu@iup.edu

Jianfeng Wang
Indiana University of Pennsylvania
jwang@iup.edu

Room: Indian Shores

Session Chair: Kodey S. Crandall

INFORMATION TECHNOLOGY STRATEGIES FOR SMALL BUSINESSES

Mysore Ramaswamy
Southern University
mysore@acm.org

HIGH SCHOOL STUDENTS' PERCEPTIONS OF CYBERSECURITY: AN EXPLANATORY CASE STUDY

Kodey S. Crandall
Dakota State University
kodey.crandall@trojans.dsu.edu

Cherie Noteboom
Dakota State University
cherie.noteboom@dsu.edu

Omar El-Gayar
Dakota State University
omar.el-gayar@dsu.edu

Kalee Crandall
Utah State Board of Education
kalee.crandall@schools.utah.gov

USING DATA MINING TECHNIQUES FOR GAME RULE EXTRACTION

Chen-Huei Chou
College of Charleston
chouc@cofc.edu

Thursday, October 3, 3:50 – 4:50 p.m.

Room: Madeira
Session Chair: Sushma Mishra

**HABITS OF HIGHLY PRODUCTIVE
INFORMATION SYSTEMS USERS:
A LOOK AT ONE UNIVERSITY'S
FACULTY, STAFF, AND STUDENTS**

Gayle R. Jesse

West Liberty University
gayle.jesse@gmail.com

Lily J. Pharris

Northwestern State University of Louisiana
pharrisl@nsula.edu

**A CASE BASED ANALYSIS
OF ORGANIZATIONAL SECURITY
GOVERNANCE DIMENSIONS: USER
INVOLVEMENT, PROCESS INTEGRITY,
& RESOURCE ALLOCATION**

Sushma Mishra

Robert Morris University
mishra@rmu.edu

**FORMAL METHODS FOR BUSINESS
PROFESSIONALS HOW CLASSICAL
LOGIC CAN SAVE THE WORLD FROM
THE COMING SOFTWARE APOCALYPSE**

Ron Fuller

Center for Logic and Business
Communication
rgfuller@logicandbusiness.org

Matthew North

Utah Valley University
mnorth@uvu.edu

Peter W. Cardon

University of Southern California
cardon@marshall.usc.edu

Fun Night

6:00 - 11:00 p.m. Poolside South

Join us for dinner, followed by a fun evening filled with pop tunes from DJ Lance, group dancing, games, and a karaoke contest.



The IACIS 2019 Conference Program is an official publication of the
INTERNATIONAL ASSOCIATION FOR COMPUTER INFORMATION SYSTEMS

FRIDAY, OCTOBER 4, 2019

8:00 a.m. - 4:00 p.m.	Registration	Ballroom Foyer
7:30 - 9:00 a.m.	Breakfast	Redington/Bellair
12:20 - 2:20 p.m.	Business Luncheon & Awards	Redington/Bellair
3:30 – 4:30 p.m.	JCIS Editorial Review Board Meeting	Longboat Key

Friday, October 4, 9:00 – 10:00 a.m.

Room: Siesta Key Session Chair: Denise Bollenback	Room: Indian Shores Session Chair: Debra J. Borkovich
<p>STRATEGIC MARKETING & CYBERSECURITY: THE CASE OF DATA BREACHES George Kirk Southern University and A&M College george_kirk@subr.edu Jose Noguera Southern University and A&M College jose_noguera@subr.edu</p> <p>CYBER SELLS: BUT DO WE KNOW WHAT WE ARE SELLING? A NEW MEASURE Aaron Glassman Embry-Riddle Aeronautical University Worldwide aaron.glassman@erau.edu Denise Bollenback Embry-Riddle Aeronautical University Worldwide denise.bollenback@erau.edu</p> <p>CONVERGENCE OF MARKETING & TECH: LET'S GET AMPLIFIED! Tawnya Bernsdorf Minot State University tawnya.bernsdorf@ndus.edu Kristi Berg Minot State University kristi.berg@ndus.edu</p>	<p>Panel</p> <p>NEGOTIATING GRADES: SOCIAL-CULTURAL REORGANIZING OF RATIONALITY & REFLECTIONS ON COURSE OUTCOMES Debra J. Borkovich Middle GA State University debra.borkovich@mga.edu Robert Joseph Skovira Robert Morris University skovira@rmu.edu Frederick Kohun Robert Morris University kohun@rmu.edu</p>

Friday, October 4, 9:00 – 10:00 a.m.

Room: Madeira

Session Chair: Odo Godwin

**THE ROLE OF PERSONAL NORM
IN PREDICTING INTENTION FOR
DIGITAL PIRACY**

Godwin G. Udo

University of Texas at El Paso

gudo@utep.edu

Kallol K. Bagchi

University of Texas at El Paso,

kbagchi@utep.edu

**FALSIFYING PERSONAL DATA
TO ADDRESS ONLINE PRIVACY ISSUES**

Vasilka Chergarova

Nova Southeastern University

vc574@mynsu.nova.edu

Ling Wang

Nova Southeastern University

lingwang@nova.edu

**PriVacy: THE MISSING “V” IN BIG
DATA ANALYTICS**

Christopher B. Davison

Ball State University

cbdavison@bsu.edu

Allen D. Truell

Ball State University

atruell@bsu.edu

Edward J. Lazaros

Ball State University

ejlazaros@bsu.edu

Jensen J. Zhao

Ball State University

jzhao@bsu.edu

Room: Siesta Key
Session Chair: Richard Glass

Room: Indian Shores
Session Chair: Allen D. Truell

INCREASING THE EFFECTIVENESS OF THE CYBERSECURITY TEACHING & LEARNING BY APPLYING ACTIVITY THEORY & NARRATIVE RESEARCH



Constanta-Nicoleta Bodea
The Bucharest University of Economic Studies
bodea@ase.ro
Maria-Iuliana Dascalu
University Politehnica of Bucharest
maria.dascalu@upb.ro
Mihail Cazacu
The Bucharest University of Economic Studies
mihail.cazacu@gmail.com

ENHANCING ORGANIZATIONAL CYBERSECURITY: A HANDS-ON IMMERSIVE LEARNING PROJECT

Jensen J. Zhao
Ball State University
jzhao@bsu.edu
Allen D. Truell
Ball State University
atruell@bsu.edu
Edward J. Lazaros
Ball State University
ejlazaros@bsu.edu
Chris Davison
Ball State University
cbdavison@bsu.edu

DO STUDENTS LEARN RAPIDLY DEVELOPING FIELDS BETTER WITHOUT TEXTBOOKS?

Brad Fowler
Georgia College
brad.fowler@gcsu.edu
Bryan Marshall
Georgia College
bryan.marshall@gcsu.edu
Peter Cardon
University of Southern California
petercardon@marshall.usc.edu

CYBERBULLYING: IMPORTANT CONSIDERATIONS

Allen D. Truell
Ball State University
atruell@bsu.edu
Jensen J. Zhao
Ball State University
jzhao@bsu.edu
Edward J. Lazaros
Ball State University
ejlazaros@bsu.edu
Christopher Davison
Ball State University
cbdavison@bsu.edu
Dakota L. D. Nicley
Ball State University
dlnicley@bsu.edu

DESIGNING A DOCTORAL PROGRAM IN CYBERSECURITY FOR WORKING PROFESSIONALS

Ping Wang
Robert Morris University
wangp@rmu.edu
Fred Kohun
Robert Morris University
kohun@rmu.edu

SYNERGY OVER SILOS: MIS PROGRAM REALIGNMENT PILOT STUDY

Kristi Berg
Minot State University
kristi.berg@ndus.edu
Chad Fenner
Minot State University
chad.fenner@ndus.edu
Lori Willoughby
Minot State University
lori.willoughby@ndus.edu

Friday, October 4, 10:10 – 11:10 a.m.

Room: Madeira
Session Chair: Ephrem Eyob

**ENTER THE TWILIGHT ZONE:
THE PARADOX OF THE DIGITAL NATIVE**

Nancy Marksbury
Keuka College
nmarksbury@keuka.edu
Enid Arbelo Bryant
Keuka College
ebryant@keuka.edu

**A STUDY OF THE ETHICS & MORALS
OF COMPUTER SCIENCE TECHNOLOGY**

SeongYong Hong
Carson-Newman University
shong@cn.edu

**DIGITAL CITIZENSHIP IN HIGHER
EDUCATION STUDENTS**

Zoroayka V. Sandoval
Middle Georgia State University
vicky.sandoval@gmail.com

11:10 - 11:20 a.m.

Refreshment Break Ballroom Foyer

Friday, October 4, 11:20 a.m. - 12:20 p.m.

Room: Siesta Key
Session Chair: Scott Spangler

Room: Indian Shores
Session Chair: Kenneth L Williams

**PERCEPTIONS OF CLOUD STORAGE
PRIVACY AMONG UNIVERSITY STUDENTS**

Kevin S. Floyd
Middle Georgia State University
kevin.floyd@mga.edu
Kembley Lingelbach
Middle Georgia State University
kembley.lingelbach@mga.edu

**SUSTAINABLE MANAGEMENT: MINIMIZING
EMPLOYEE TURNOVER IN IT**

Tom Williams III
Middle Georgia State University
tom.williams@mga.edu
Scott Spangler
Middle Georgia State University
scott.spangler@mga.edu

**A METHOD TO INCREASE
IS ENROLLMENTS**

Kevin Lee Elder
Georgia College & State University
Kevin.Elder@GCSU.edu
Tanya Goette
Georgia College & State University
Tanya.Goette@GCSU.edu
Ron MacKinnon
Georgia Southern University
rmackinn@georgiasouthern.edu

**TAKING THE GUESSWORK OUT
OF CYBERSECURITY LEVERAGING
U.S. GOVERNMENT BEST PRACTICES
IN THE PRIVATE SECTOR**

Paul D. Nugent
Western Connecticut State University
nugentp@wcsu.edu

**CYBERSECURITY EDUCATION:
CLOSING THE SKILLS GAP**

Kenneth L Williams
American Public University System
kewilliams@apus.edu
Ping Wang
Robert Morris University
wangp@rmu.edu

**POLICE USE OF SOCIAL MEDIA:
COMPARING CLASSIFICATION METHODS**

Kevin Mentzer
Bryant University
kmentzer@bryant.edu
Jane Fedorowicz
Bentley University
jfedorowicz@bentley.edu
Christine Williams
Bentley University
cwilliams@bentley.edu

Friday, October 4, 11:20 a.m. - 12:20 p.m.

Room: Madeira
Session Chair: Delaney Brown

A DESIGN OF AN AUTOMATED PARKING SYSTEM ON A SMART CAMPUS

Delaney Brown
 Carson-Newman University
 dhbrown@cn.edu
 SeongYong Hong
 Carson-Newman University
 shong@cn.edu

ARE DRIVERLESS CARS TRULY A REALITY? A TECHNICAL, SOCIAL & ETHICAL ANALYSIS

Choton Basu
 University of Wisconsin-Whitewater
 basuc@uww.edu
 Manu Madan
 University of Wisconsin-Whitewater
 madanm@uww.edu
 Balaji Sankaranarayanan
 University of Wisconsin-Whitewater
 sankarab@uww.edu

MOBILE APP DEVELOPMENT FOR ALL

Meg Fryling
 Siena College
 mfryling@siena.edu

12:20 – 2:20 p.m.

Business Luncheon & Award Ceremony..... Redington/Bellair

Friday, October 4, 2:20 - 3:20 p.m.

Room: Siesta Key

Session Chair: Shuyi Liu

**RESEARCH ON SECURITY VISUALIZATION:
A SURVEY**

Shuyi Liu

Vanderbilt University
Shuyi.liu@vanderbilt.edu

Wu He

Old Dominion University
WHe@odu.edu

Xin Tian

Kennesaw State University
xtian2@kennesaw.edu



**CYBER-SECURITY INSTRUCTIONAL
TECHNOLOGY DESIGN**

Billy Carrie

Georgia Southern University
bc04045@georgiasouthern.edu

Hayden Wimmer

Georgia Southern University
hwimmer@georgiasouthern.edu

Loreen Powell

Bloomsburg University
lpowell@bloomu.edu

Carl Rebman

University of San Diego
carlr@sandiego.edu

**TRENDS IN BLOCKCHAIN & NEWER
TECHNOLOGIES USES IN LOGISTICS
& SUPPLY CHAIN MANAGEMENT**

Ephrem Eyob

eeyob@vsu.edu

Simon Eyob

seyob99@vt.edu

Room: Indian Shores

Session Chair: Todd A. Whittaker

**BIG FIVE PERSONALITY TRAITS IN LEARNING
COMPLEX INFORMATION SYSTEMS:
A CASE STUDY**

Bih-Ru Lea

Missouri University of Science & Technology
leabi@mst.edu

Katherine Yu

University of Missouri - Columbia
kayn9h@missouri.edu

Amanda Engelke

Rolla High School
aengelke@rolla.k12.mo.us

Carol Koob

Truman State University
koobcarol@gmail.com

**COMMAND-BASED CODING USING R
FOR DATA SCIENCE**

Jianfeng Wang

Indiana University of Pennsylvania
jwang@iup.edu

Linwu Gu

Indiana University of Pennsylvania
lgu@iup.edu

**FACTORS INFLUENCING CURRICULUM
ADOPTION IN UNDERGRADUATE
CYBERSECURITY PROGRAMS**

Todd A. Whittaker

Franklin University
todd.whittaker@franklin.edu

Cherie Noteboom

Dakota State University
cherie.noteboom@dsu.edu

Friday, October 4, 2:20 - 3:20 p.m.

Room: Madeira

Session Chair: Debra J. Borkovich

**CYBERSECURITY INERTIA & SOCIAL
ENGINEERING: WHO'S WORSE,
EMPLOYEES OR HACKERS?**

Debra J. Borkovich

Middle GA State University
debra.borkovich@mga.edu

Robert Joseph Skovira

Robert Morris University
skovira@rmu.edu

**BLOCKCHAIN TECHNOLOGY
& THE CURRENT DISCUSSION ON FRAUD**

Linh Phan

Bryant University
lphan@bryant.edu

Suhong Li

Bryant University
sli@bryant.edu

Kevin Mentzer

Bryant University
kmentzer@bryant.edu

**AN EXPLORATORY STUDY OF EFFICACY
OF COMMON BUSINESS CRITICAL
THINKING COURSE: DO CIS MAJORS
PERFORM BETTER THAN OTHER BUSINESS
MAJORS?**

Kazuo Nakatani

Florida Gulf Coast University
knakatan@fgcu.edu

Judy Wynekoop

Florida Gulf Coast University
jwynekoo@fgcu.edu

Friday, October 4, 3:30 – 4:30 p.m.

Room: Siesta Key
Session Chair: Mel Tomeo

Room: Indian Shores
Session Chair: Kevin Slonka

ANTECEDENTS TO SUCCESSFUL SOFTWARE TRAINING: A RESEARCH FRAMEWORK & PRELIMINARY EVIDENCE



Douglas Havelka
Miami University
havelkdj@miamioh.edu
T.M. Rajkumar
Miami University
rajkumtm@miamioh.edu

AGILE & SECURE SOFTWARE DEVELOPMENT: AN UNFINISHED STORY

David Bishop
Dakota State University
david.bishop@dsu.edu
Pam Rowland
Dakota State University
pam.rowland@dsu.edu

A COMPARATIVE STUDY ANALYZING COMPUTER PROGRAMMING COLLEGE STUDENTS' PRE-KNOWLEDGE AND POST-KNOWLEDGE OF SOFTWARE APPLICATION SECURITY USING OWASP

Mel Tomeo
Pittsburgh Technical College
tomeo.mel@ptcollege.edu
Wilfred Mutale
Pittsburgh Technical College
mutale.wilfred@ptcollege.edu
John Scarpino
Pittsburgh Technical College
scarpino.john@ptcollege.edu
Lee Cottrell
Pittsburgh Technical College
cottrell.lee@ptcollege.edu

HEALTH SERVICES AT RISK: AN UNANTICIPATED OUTCOME OF THE NEED FOR CYBERSECURITY

Susan G. Helser
Central Michigan University
helse1s@cmich.edu

HEALTHCARE PROFESSIONALS' PERCEPTION OF THE USABILITY OF ELECTRONIC MEDICAL RECORDS

Peter Draus
Robert Morris University
draus@rmu.edu
Sushma Mishra
Robert Morris University
mishra@rmu.edu
Kevin Slonka
University of Pittsburgh
kevinslonka@gmail.com
Natalya Bromall
Robert Morris University
bromall@rmu.edu
Kelli Slonka
Conemaugh Memorial Medical Center
kstanisl@conemaugh.org

IT PROFESSIONAL USERS & VENDORS' PERCEPTIONS OF THE KEY FACTORS IN ADOPTING CLOUD-MANAGED NETWORKS TECHNOLOGY

Chalermpon Kesa
Robert Morris University
cxkst116@mail.rmu.edu
Peter Draus
Robert Morris University
draus@rmu.edu

Friday, October 4, 3:30 – 4:30 p.m.

Room: Madeira
Session Chair: G. Kent Webb

USING PYTHON FOR NOSQL & NATURAL LANGUAGE PROCESSING IN A BI COURSE

Mike Mitri
James Madison University
mitrimx@jmu.edu

INFORMATION SYSTEMS SECURITY IN THE CORE CONTENT OF AN AACSB COLLEGE OF BUSINESS

Thomas S. E. Hilton
University of Wisconsin–Eau Claire
HiltonTS@uwec.edu

Mark P. Staloch
University of Wisconsin–Eau Claire
StalocMP@uwec.edu

FACTORS RELATED TO LARGER BUT FEWER WILDFIRES AND FEWER DEER IN CALIFORNIA: A GOOGLE SITES KNOWLEDGE BASE

G. Kent Webb
San Jose State University
g.webb@sjsu.edu

3:30 – 4:30 p.m.

JCIS Editorial Board Meeting..... Longboat Key

SATURDAY, OCTOBER 5, 2019

8:00 a.m. - 10:00 a.m.	Registration	Ballroom Foyer
7:30 - 9:00 a.m.	Breakfast	Redington/Bellair
11:20 a.m. – 12:00 p.m.	Conference Debriefing	Redington/Bellair

Saturday, October 5, 9:00 – 10:00 a.m.

Room: Siesta Key Session Chair: Xiang Fang	Room: Longboat Key Session Chair: Barbara Jo White
<p>THE EFFECTS OF NATIONAL CULTURE DIMENSIONS AND ONLINE MEDIUM TYPE ON DECISION CONFIDENCE: A STUDY BASED ON U.S. & CHINA Xiang Fang Miami University (OH) fangx@miamioh.edu</p> <p>T.M. Rajkumar Miami University (OH) rajkumtm@miamioh.edu</p> <p>Mark P. Sena Xavier University sena@xavier.edu</p> <p>ARTIFICIAL INTELLIGENCE: SHOULD WE BE WORRIED? Richard Glass Bryant University rglass@bryant.edu</p> <p>THE INFLUENCE OF HUMAN FACTORS IN SECURING ONLINE PROJECTS Seweryn Spalek Silesian University of Technology spalek@polsl.pl</p>	<p>MILLENNIAL PERCEPTIONS OF SOCIAL MEDIA: REALITY VERSUS WHAT IS ACCEPTABLE Sara Bliss Kiser Alabama State University skiser@alasu.edu</p> <p>Tammy L. Prater Alabama State University tprater@alasu.edu</p> <p>Kimberly Johnson Auburn University at Montgomery, kjohns36@aum.edu</p> <p>Suzanne Smith Presbyterian College ssmith@presby.edu</p> <p>INFLUENCING THE FUTURE: ADOLESCENT GIRLS' PERCEPTIONS OF CYBERSECURITY CAREERS Pam Rowland Dakota State University pam.rowland@dsu.edu</p> <p>Cherie Noteboom Dakota State University cherie.noteboom@dsu.edu</p> <p>EMPHASIZING SECURITY & WRITING IN A CROSS-DISCIPLINARY COURSE FOR COMPUTER INFORMATION SYSTEMS & BUSINESS LAW STUDENTS Lorrie Willey Western Carolina University lwilley@email.wcu.edu</p> <p>Barbara Jo White Western Carolina University, whiteb@email.wcu.edu</p>

Saturday, October 5, 9:00 – 10:00 a.m.

Room: Madeira
Session Chair: Thomas L. Ngo-Ye

SELECTING ENTERPRISE APPLICATIONS FOR CURRICULUM: INSIGHTS FROM A TEACHING INITIATIVE

Jae J. Choi
 Pittsburg State University
 jchoi@pittstate.edu
 Thomas L. Ngo-Ye
 Alabama State University
 tngoye@alasu.edu

DEVELOPING AN E-COMMERCE DATABASE WEB APPLICATION FOR UNIVERSITY SPORT CONCESSION EVENT: A TEACHING CASE

Thomas L. Ngo-Ye
 Alabama State University
 tngoye@alasu.edu
 Jae J. Choi
 Pittsburg State University
 jchoi@pittstate.edu
 Dexter Gittens
 Alabama State University
 dgittens@alasu.edu

A MODEL GRADUATE ENTERPRISE SECURITY COURSE

Manouchehr Tabatabaei
 Georgia Southern University
 mtabatab@georgiasouthern.edu
 James K. Harris
 Georgia Southern University
 jkharris@georgiasouthern.edu

10:00 – 10:10 a.m.

Refreshment Break Ballroom Foyer

Saturday, October 5, 10:10 – 11:20 a.m.

Room: Siesta Key
Session Chair: Philip Kim

THE IMPACT OF BEDTIME SMARTPHONE USAGE ON SLEEP HEALTH: A PILOT QUANTITATIVE STUDY

Manvitha Valasareddy
Harrisburg University,
mvalasareddy@harrisburgu.edu

Wenli Wang
Robert Morris University
wangw@rmu.edu

Chaza F. Abdul-AI
Harrisburg University
cabdul@harrisburgu.edu

Steven P. Niles
Los Angeles City College,
nilessp@lacitycollege.edu

The U.S.- MEXICO BORDER WALL: A SENTIMENT ANALYSIS

Jeffrey Easter
Missouri University of Science and Technology
jpex29@mst.edu

Qiuyue Yang
Missouri University of Science and Technology
qyhv7@mst.edu

Choji Daches
Missouri University of Science and Technology
cbdfrc@mst.edu

Wen-Bin Yu
Missouri University of Science and Technology
yuwen@mst.edu

Craig Claybaugh
Missouri University of Science and Technology
claybaughc@mst.edu

DEVELOPMENT OF AN INTERDISCIPLINARY MASTERS IN DATA SCIENCE/ANALYTICS

Matthew K. McGowan
Bradley University
mmcgowan@bradley.edu

Paul R. Stephens
Bradley University
prs@bradley.edu

Room: Longboat Key
Session Chair: Laura Atkins

SOCIAL MEDIA & CHEATING: IS THERE A NEED TO REVIEW YOUR ACADEMIC INTEGRITY POLICY?

Philip Kim
Walsh University
pkim@walsh.edu
Joseph V. Homan
Monterey Technologies, Inc.
jhoman@montereytechnologies.com

DIGITAL ETHICS & SUSTAINABILITY: DEVELOPING AN IS ELECTIVE

Laura Atkins
James Madison University
atkinslc@jmu.edu

HOW TO ADMINISTER & UTILIZE OFFICE 365 IN THE CLASSROOM FOR COLLABORATION AND PROJECT MANAGEMENT ASSIGNMENTS WITHIN ACADEMIA

Shawn Lough
James Madison University
loughsr@jmu.edu

Saturday, October 5, 10:10 – 11:20 a.m.

Room: Madeira
Session Chair: Jennifer L. Breese

**BLOCKCHAIN TECHNOLOGY ADOPTION
IN SUPPLY CHANGE MANAGEMENT:
TWO THEORETICAL PERSPECTIVES**

Jennifer L. Breese
Penn State University
jzb545@psu.edu
Sung-Jin Park
Indiana University South Bend
sungjpar@iusb.edu
Ganesh Vaidyanathan
Roosevelt University
gvaidyanathan@roosevelt.edu

**OVERVIEW OF BLOCKCHAIN LEGISLATION
& ADOPTION: STATUS & CHALLENGES**

Selam E. Eyassu
New York State Technology Enterprise
Corporation (NYSTEC)
seyassu@nystec.com

**ANOTHER LOOK AT TEXTBOOK USAGE
BY COLLEGE STUDENTS**

Xue Bai
Virginia State University
xbai@vsu.edu
Ade Ola
Virginia State University
aola@vsu.edu
Ephrem Eyob
Virginia State University
eeyob@vsu.edu
Serena Reese
Virginia State University
sreese@vsu.edu
Soma Akkaladevi
Virginia State University
sakaladevi@vsu.edu
Daysha Downing
Virginia State University
ddowning @vsu.edu

11:20 - 12:00 p.m.

Conference Debriefing Redington/Bellair
& Door Prizes

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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.

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- Mobile Technology, Mobile Applications
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