



**The International Conference on
Information Technology:
New Generations**

**April 10-12, 2017
Tuscany Suites, Las Vegas, Nevada, USA**

**ITNG 2017
ADVANCE PROGRAM**

April 9, 2017 - SUNDAY

5:00pm - 8:00pm: REGISTRATION (Convention Center- TBA)
6:00pm - 8:00pm: PRECONFERENCE RECEPTION (Florentine E)

April 10, 2017 - MONDAY

7:00am - 5:00pm: REGISTRATION (Convention Center- TBA)
7:00am - 8:30am: BREAKFAST (TBA)
8:00am - 8:10am: Conference Opening Remarks by
Shahram Latifi, ITNG CHAIR: TBA, University of Nevada, LasVegas
(Location: Florentine E)

8:10am - 9:00am: Keynote by **Dr. Jean-Luc Gaudiot**
Professor, UC Irvine, President of the IEEE Computer Society
(Location: Florentine E)

9:00 am - 9:10 am: Break

PARALLEL SESSIONS:

A SESSIONS (Florentine E)

SESSION MA1: Information Systems and Internet Technology I

CHAIR: **Dr. Anthony K. Tsetse, Northern Kentucky University, USA**
Co-CHAIR: **Dr. Doina Bein, California State University, Fullerton, USA**

9:10am - 10:10am

9:10-9:30 A Petri Net Design and Verification Platform based on The Scalable
and Parallel Architecture: HiPS
Yojiro Harie and Katsumi Wasaki

9:30-9:50 A Cloud Service for Graphical User Interfaces Generation and
Electronic Health Record Storage
André Araújo, Valéria Times and Marcus Silva

9:50-10:10 Event-based Anomalies in Big Data
Yenumula Reddy

10:10-10:30 Coffee Break

SESSION MA2: Information Systems and Internet Technology II

CHAIR: **Dr. Anthony K. Tsetse, Northern Kentucky University, USA**

Co-CHAIR: **Dr. Anteneh Girma, Howard University, USA**

10:30am - 11:50am

10:30-10:50 Optimally Compressed Digital Content Delivery Using Short Message Service
Muhammad Fahad Khan, Mubashar Mushtaq and Khalid Saleem

10:50-11:10 A Rule-Based Relational XML Access Control Model in the Presence of Authorization Conflicts
Ali Alwehaibi and Mustafa Atay

11:10-11:30 The Organisational Constraints of Blending E-learning Tools in Education: Lecturers' Perceptions
Sibusisiwe Dube and Elsje Scott

11:30-11:50 A New Proposed Unconditionally Secure Blind Proxy Signature Scheme Based on RSA
Mohamed kouta, Abd Elftah Hegazy and Maged Elgendy

12:30-1:30 Lunch (on your own)

SESSION MA3: Networking and Wireless Communications I

CHAIR: **Prof. Fazlullah Khan, Abdul Wali Khan University Mardan, Pakistan**

Co-CHAIR: **Dr. Anteneh Girma, Howard University, USA**

1:30pm - 3:30pm

1:30-1:50 Performance Enhancement of OMP Algorithm for Compressed Sensing Based Sparse Channel Estimation in OFDM Systems
VahidVahidi and Ebrahim Saberinia

1:50-2:10 CARduino: A Semi-automated Vehicle Prototype to Stimulate Cognitive Development in A Learning-Teaching Methodology
Everton Rafael da Silva and BrenoLisi Romano

2:10-2:30 ICI Mitigation for High-Speed OFDM Communications in High-Mobility Vehicular Channels
VahidVahidi and Ebrahim Saberinia

2:30-2:50 Mobile Pay Center Protocol 3D by Using Cloud Messaging
Mohammad Vahidalizadehdizaj

- 2:50-3:10 Golden Linear Group Key Agreement Protocol
Mohammad Vahidalizadehdizaj
- 3:10-3:30 Implementing an In-Home Sensor Agent in Conjunction with an Elderly Monitoring Network
Katsumi Wasaki, Masaaki Niimura and Nobuhiro Shimoi
- 3:30-4:00 Coffee Break

SESSION MA4: Networking and Wireless Communications II

CHAIR: **Dr. Anteneh Girma, Howard University, USA**

Co-CHAIR: **Prof. Fazlullah Khan, Abdul Wali Khan University Mardan, Pakistan**

4:00pm - 5:40pm

- 4:00-4:20 ACO-Discreet: An Efficient Node Deployment Approach in Wireless Sensor Networks
Tehreem Qasim, Qurrat-ul-Ain Minhas, Hasan Mahmood, MujahidAlam, Naeem Ali Bhatti, Mubashar Mushtaq, Khalid Saleem and M Shujah Islam Sameem
- 4:20-4:40 How Risk Tolerance Constrain Perceived Risk on Smartphone Users' Risk Behavior
Shwu-Min Horng, Chia-Ling Chao
- 4:40-5:00 When Asteroids Attack the Moon - Design and Implementation of an STK-based Satellite Communication Simulation for the NASA-led Simulation Exploration Experience
Bingyang Wei, Amy Knowles, Christopher Silva, Christine Mounce and Anthony Enem
- 5:00-5:20 Wireless Body Sensor Network for Monitoring and Evaluating Physical Activity
Leonardo Schick, Wanderley Lopes de Souza and Antonio Francisco do Prado
- 5:20-5:40 Performance Analysis of Transport Protocols for Multimedia Traffic over Mobile Wi-Max Network
Faisal Rehman and Fazlullah Khan
- 5:40-6:00 Techniques for Secure Data Transfer
Jeffery Gardner
- 6:00-6:20 Rate Adjustment Mechanism for Improving the TCP Throughput in Data Center Networks
Prasanthi Sreekumari

B SESSIONS (Florentine F)

SESSION MB1: Data Mining I

CHAIR: **Prof. Danilo Eler, Unesp, Universidade Estadual Paulista, Brazil**

Co-CHAIR: TBA

9:10am - 10:10am

- 9:10-9:30 An Optimized Data Mining Method to Support Solar Flare Forecast
Sérgio Luisir Díscola Junior, José Roberto Cecatto, Márcio Merino Fernandes and Marcela Xavier Ribeiro
- 9:30-9:50 A New Approach to Classify Sugarcane Fields Based on Association Rules
Rafael João, Steve Mpinda, Ana Vieira, Renato João, Luciana Romani and Marcela Ribeiro
- 9:50-10:10 Visualizing the Document Pre-processing Effects in Text Mining Process
Danilo Eler, Ives Pola, Rogério Garcia and Jaqueline Teixeira
- 10:10-10:30 Coffee Break

SESSION MB2: Data Mining II

CHAIR: **Dr. Doina Bein, California State University, Fullerton, USA**

Co-CHAIR: TBA

10:30am - 12:30pm

- 10:30-10:50 Complex Network Tools to Understand the Behavior of Criminality in Urban Areas
Gabriel Spadon, Lucas C. Scabora, Paulo H. Oliveira, Marcus V. S. Araujo, Bruno B. Machado, Elaine P. M. Sousa, Caetano Traina-Jr and Jose F. Rodrigues-Jr
- 10:50-11:10 Big Data: A Systematic Review
Antonio Fernando Cruz Santos, Ítalo Pereira Teles, Otávio Manoel Pereira Siqueira and Adicinéia Aparecida Oliveira
- 11:10-11:30 Evidences from the Literature on Database Migration to the Cloud
Antonio Carlos Marcelino de Paula, Glauco de Figueiredo Carneiro and Antonio Cesar Brandão Gomes da Silva
- 11:30-11:50 Improving Data Quality through Deep Learning and Statistical Model
Wei Dai, Kenji Yoshigoe and William Parsley
- 11:50-12:10 A Framework for Auditing XBRL Documents Based on the GRI Sustainability Guidelines
Daniela Costa Souza and Paulo Caetano da Silva

12:10-12:30 OPEN SLOT

12:30-1:30 Lunch (on your own)

SESSION MB3: Software Engineering I

CHAIR: **Dr. Doina Bein, California State University, Fullerton, USA**

Co-CHAIR: TBA

1:30pm - 3:30pm

1:30-1:50 Mining Historical Information to Study Bug Fixes
Eduardo Campos and Marcelo Maia

1:50-2:10 An Empirical Study of Control Flow Graphs for Unit Testing
Frank Xu

2:10-2:30 A New Approach to Evaluate the Complexity Function of Algorithms Based on Simulations of Hierarchical Colored Petri Net Models
Clarimundo Júnior, Rita Julia, Stéphane Julia and Luciane Silva

2:30-2:50 Detection Strategies for Modularity Anomalies: An Evaluation with Software Product Lines
Eduardo Fernandes, Priscila Souza, Kecia Ferreira, Mariza Bigonha and Eduardo Figueiredo

2:50-3:10 Randomized Event Sequence Generation Strategies for Automated Testing of Android Apps
David Adamo and Renee Bryce

3:10-3:30 Generating Sequence Diagram and Call Graph Using Source Code Instrumentation
Mustafa Hammad and Muna Al-Hawari

3:30-4:00 Coffee Break

SESSION MB4: Software Engineering II

CHAIR: **Dr. Doina Bein, California State University, Fullerton, USA**

Co-CHAIR: TBA

4:00pm - 6:40pm

4:00-4:20 Design Observer: A Framework to Monitor Design Evolution
Maen Hammad

4:20-4:40 Extending Automotive Legacy Systems with Existing End-to-End Timing Constraints
Matthias Becker, Saad Mubeen, Moris Behnam and Thomas Nolte

4:40-5:00 Modeling of Vehicular Distributed Embedded Systems: Transition from

Single-core to Multi-core
Saad Mubeen and AlessioBucaioni

5:00-5:20 On the Impact of Product Quality Attributes on Open Source Projects Evolution

Antonio Silva, GlaucoCarneiro, Miguel Monteiro, Fernando Abreu, Eduardo Figueiredo and KattianaConstantino

5:20-5:40 AD-Reputation – A Reputation-based Approach to Support Effort Estimation

Claudio Lelis, Marcos Miguel, Marco Araújo, José David and Regina Braga

5:40-6:00 PMBENCH: AMicro-benchmark for Profiling Paging Performance on ASystem with Low-latency SSDs

Jisoo Yang and Julian Seymour

SESSION MC1 – POSTERS (Hallway)

CHAIR: TBA
Co-CHAIR: TBA

9:10am - 12:30pm (Location: Hallway)

Usability in Security Systems

Claudio Casado, Miguel Palma, Cristian Barria and Cristian Rusu

Techniques of Detection, Prevention and Mitigation of DDoS Attacks

Judith Clarisse EssomeEpoh

DDoS Attacks: Defending Cloud Environments

Michele Cotton

SESSION MC2 – POSTERS (Hallway)

1:30pm - 3:30pm (Location: Hallway)

DDoS Countermeasures

Michael Wisthoff

The Implementation of the Document Management System “DocMan” as An Advantage for the Acceleration of Administrative Work in Macedonia

Burhan Rahmani, DautHajrullahi and FlorimIdrizi

April 11, 2017 - Tuesday

7:00am - 5:00pm: REGISTRATION (TBA)

7:00am - 8:30am: BREAKFAST (TBA)

8:00am - 9:00am: **Keynote by Dr. Kohei Arai, Saga University, Japan**

Human Computer Interaction: Next Generation
(Location: Florentine E)

PARALLEL SESSIONS:

A SESSIONS (Florentine E)

SESSION TA1: Computer Vision, HCI and Image Processing/Analysis

CHAIR: **Dr. Chyi-Ren Dow, Feng Chia University, Taiwan**

Co-CHAIR: TBA

9:00am - 10:00am

9:00- 9:20 Handwritten Feature Descriptor Methods Applied to Fruit Classification
Priscila Macanhã, Danilo Eler, Rogério Garcia and Wilson Marcílio

9:20-9:40 Help HEMOCS Application for Helping Disabled People Communicate by Head Movement Control
Herman Tolle and Kohei Arai

9:40-10:00 An Adaptive Sensor Management System
Chyi-Ren Dow, Yaun-Zone Wu Wu, Bonnie Lu, Shioh-Fen Hwang and Fongray Frank Young

10:00-10:30 Coffee Break

SESSION TA2: High Performance Computing Architectures

CHAIR: TBA

Co-CHAIR: **Dr. Fangyang Shen, New York City Technology of Technology**

10:30am - 12:30pm

10:30-10:50 Data Retrieval and Parsing of Form 4 from the Edgar System using Multiple CPUs
Raja Singh, Nolan Burfield and Frederick Harris Jr.

10:50-11:10 A New Approach for STEM Teacher Scholarship Implementation
Fangyang Shen and Janine Roccasalvo

11:10-11:30 Sumudu Transform for Automatic Mathematical Proof and Identity Generation
Jun Zhang and Fangyang Shen

11:30-11:50 A Multiobjective Optimization Method for the SOC Test Time, TAM, and Power Optimization Using a Strength Pareto Evolutionary Algorithm
WissamMarrouche, Rana Farah and HaidarHarmanani

12:30-1:30 Lunch (on your own)

SESSION TA3: Entertainment Technology and Education

CHAIR: **Prof. Fazlullah Khan, Abdul Wali Khan University Mardan, Pakistan**

Co-CHAIR: TBA

1:30pm - 3:30pm

1:30-1:50 A Practical Approach to Analyze Logical Thinking Development with Computer Aid
BrenoLisi Romano and Adilson Marques da Cunha

1:50-2:10 A Transversal Sustainability Analysis of the Teaching-learning Process in Computer Students and Groups
Fernanda Carla de Oliveira Prado and Luciel Henrique de Oliveira

2:10-2:30 Cloud Computing: A paradigm shifts for Central University of Technology, Welkom
Moloiyatsana Dina Moloja and Moretlo Celia Tlale

2:30-2:50 Hadoop as a Learning Tool
Gabriel Spadon, Danilo M. Eler, Celso Olivete-Jr, Rogério E. Garcia and Ronaldo C. M. Correia

2:50-3:10 MUSE: A Music Conducting Recognition System
Chase Carthen, CrisRuggieri, Justice Colby, Richard Kelley, Sergiu Dascalu and Frederick Harris

3:30-4:00 Coffee Break

SESSION TA4: Health, Biomedical, Pattern Recognition

CHAIR: **Dr. Christoph Thuemmler, Edinburgh Napier University, UK**

Co-CHAIR: TBA

4:00pm - 5:20pm

4:00-4:20 Testing Cloud Services using the TestCast tool
Stelios Sotiriadis, Andrus Lehmetz, Euripides Petrakis and Nik Bessis

4:20-4:40 The Evaluation of High-fidelity Mannequins in Simulations of Convulsions and Pediatric CPR

Paôla de Oliveira Souza, Alexandre Carlos Brandao Ramos, Leticia Helena Januário, Ana Angélica Lima Dias, Helen Cristiny Teodoro Couto Ribeiro, Júlio César Veloso, Heber Paulino Pena, Milla Wildemberg Fiedler and Cristina RabeloFlôr

- 4:40-5:00 Visual Approach to Boundary Detection of Clusters Projected in 2D Space
Lenon Silva and Danilo Eler
- 5:00-5:20 The Impact of 5G on the Evolution of Health and Care Services
Christoph Thuemmler, Alois Paulin, Thomas Jell and Ai Keow Lim
- 5:20-5:40 Approaches for Clustering Polygonal Obstacles
LaxmiGewali and SabbirManandhar
- 6:00-7:00 **ITNG Committee Meeting (By Invitation Only)**
- 7:30-8:00 Award Ceremony (Florentine E)
- 8:00- 9:30 Conference Dinner Reception (Tuscany)

B SESSIONS (Florentine F)

SESSION TB1: Cybersecurity I

CHAIR: Dr. Ping Wang, Robert Morris University, USA

Co-CHAIR: Dr. Raed Sbeit, Verizon Wireless, USA

9:10am - 10:10am

- 9:10- 9:30 CyberSecurity Education and Training in a Corporate Environment in South Africa using Gamified Treasure Hunts
Laurie Butgereit
- 9:30-9:50 Router Security Penetration Testing in a Virtual Environment
Christian Scully and Ping Wang
- 9:50-10:10 Advanced Machine Language Approach to Detect DDoS Attack Using DBSCAN Clustering Technology with Entropy
AntenehGirma, Moses Garuba and RajiniGoel
- 10:10-10:30 Coffee Break

SESSION TB2: Cybersecurity II

CHAIR: Dr. Ping Wang, Robert Morris University, USA

Co-CHAIR: Dr. Raed Sbeit, Verizon Wireless, USA

10:30am - 12:30pm

- 10:30-10:50 A Novel Regular Format for X.509 Digital Certificates
Alessandro Barengi, Nicholas Mainardi and Gerardo Pelosi
- 10:50-11:10 A Software-Defined Networking (SDN) Approach to Mitigating DDoS Attacks
Hubert D'Cruze, Ping Wang, RaedSbeit and Andrew Ray
- 11:10-11:30 Integrated Methodology for Information Security Risk Assessment
Ping Wang and MelvaRatchford
- 11:30-11:50 Techniques for detecting and preventing Denial of Service Attack (A Systematic Review Approach)
Hossein Zare
- 11:50-12:10 OPEN SLOT
- 12:30-1:30 Lunch (on your own)

SESSION TB3: Cybersecurity III

CHAIR: **Dr. Anteneh Girma, Howard University, USA**
Co-CHAIR: **Dr. Ping Wang, Robert Morris University, USA**

1:30pm - 3:30pm

- 1:30- 1:50 Evaluation of Cybersecurity Threats on Smart Metering System
Samuel Tweneboah-Koduah, Anthony K. Tsetse, Julius Quashie Azasoo and Barbara Endicott-Popovsky
- 1:50-2:10 SCORES: Smart Cloud Optimal Resource Selection
Nawal Almuzaini, Isaac Sayid, YaqoobSayid, Iman Ismail and Fahad Alsolami
- 2:10-2:30 Towards the Memory Forensics of MS Word Documents
Ziad Al-Sharif, Hasan Bagci, ToqaAbuzaitoun and AseelAsad
- 2:30-2:50 Two are Better than One: Software Optimizations for AES-GCM Over Short Messages
Shay Gueron and RegevShemy
- 2:50-3:10 BYOD: Security Risks and Mitigations
Melva Ratchford, Ping Wang and RaedSbeit
- 3:10-3:30 OPEN SLOT
- 3:30-4:00 Coffee Break

SESSION TB4: Cybersecurity IV

CHAIR: **Dr. Anteneh Girma, Howard University, USA**

Co-CHAIR: **Dr. Ping Wang, Robert Morris University, USA**

4:00pm - 5:20pm

4:00-4:20 A Novel Information Privacy Model: A Layered Approach
Aftab Ahmad and raviMukkamala

4:20-4:40 Towards the Security of Big Data: Building a Scalable Hash Scheme
for Big Graph
Yu Lu, Fei Hu and Xin Li

4:40-5:00 On Information Privacy Metrics
Aftab Ahmad and Ravi Mukkamala

5:00-5:20 An Integrated Framework for Evaluating the Security Solutions to IP-
based IoT Applications
Gayathri Natesan, Jigang Liu, and YanjunZuo

5:20-5:40 OPEN SLOT

6:00-7:00 ITNG Committee Meeting (By Invitation Only)

7:30-8:00 Award Ceremony (Florentine E)

8:00-9:30 Conference Dinner Reception (Tuscany)

SESSION TC1 – Posters (Hallway)

9:00am -12:30pm (Location: Hallway)

Removal of Impulsive Noise from Long Term Evolution Handset
Lina Pawar, Dilip Khairnar and Akhil Kulkarni

SESSION TC2 – POSTERS (Hallway)

1:30pm - 4:30pm (Location: Hallway)

Applying Collective Intelligence in the Evolution of a Project Architecture Using Agile
Methods
Ciro Matigrani, Talita Santos, Lineu Mailaret, Adilson Cunha and Luiz Dias

Development of Human Faces Retrieval in a Big Photo Database with Agile Methodologies: A
Case Study

Thoris Pivetta, Carlos Henrique Quartucci Forster, Luiz Alberto Vieira Dias and Eduardo Guerra

An Agile Developed Interdisciplinary Approach for Safety-Critical Embedded System
Gildarcio Sousa Goncalves, Rafael Augusto Lopes Shigemura, Paulo Diego Barbosa da Silva, Rodrigo Monteiro de Barros Santana, Erlon Silva, AlheriDakwat, Fernando Jose Miguel, Luiz Alberto Vieira Dias, Paulo Marcelo Tasinaffo and Adilson Marques da Cunha

7:30-8:00 Award Ceremony (Florentine E)

8:00-9:30 Conference Dinner Reception (Tuscany)

April 12, 2017 - Wednesday

7:00am-8:30am: REGISTRATION (TBA)

7:00am - 8:30am: BREAKFAST(TBA)

8:30a-10:00: **Tutorial: H2O Deep Learning**
Prof. Yenumula Reddy
(Florentine E)

10:00–10:30: Coffee Break

A SESSIONS (Florentine E)

SESSION WA1: Agile Software Testing and Development I

CHAIR: **Dr. L. A. Vieira Dias, ITA, Brazil**

Co-CHAIR: TBA

10:30am - 12:30am

10:30-10:50 Using Big Data, Internet of Things, and Agile for Crises Management
James Martins, Adriano Pinto, Edizon Junior, Gildarcio Goncalves, HenriqueLouro, Jose Gomes, LineuFilho, Luiz Silva, Romulo Rodrigues, Wilson Neto, Adilson Cunha and Luiz Dias

10:50-11:10 An Agile and Collaborative Model-Driven Development Framework for Web Applications
Breno Lisi Romano and Adilson Marques da Cunha

11:10-11:30 Generating Control Flow Graphs from NATURAL
Strauss Cunha Carvalho, Rene Esteves, Leonardo Schmitt and Luiz Alberto Vieira Dias

11:30-11:50 Requirements Prioritization in Agile: Use of Planning Poker for Maximizing Return On Investment
Vaibhav Sachdeva

- 11:50-12:10 EasyTest: An Approach for Automatic Test Cases Generation from UML Activity Diagrams
Fernando Augusto Diniz Teixeira and Gláucia Braga e Silva
- 12:10-12:30 Enhancing Range Analysis in Software Design Models by Detecting Floating-Point Absorption and Cancellation
Marcus Kimura Lopes, Ricardo Bedin França, Luiz Alberto Vieira Dias and Adilson Marques Cunha
- 12:30-1:30 Lunch (on your own)

SESSION WA2: Agile Software Testing and Development II

CHAIR: **Dr. L. A. Vieira Dias, ITA, Brazil**

Co-CHAIR: TBA

1:30pm - 3:30pm

- 1:30-1:50 Enhancing Range Analysis in Software Design Models by Detecting Floating-Point Absorption and Cancellation
Marcus Kimura Lopes, Ricardo Bedin França, Luiz Alberto Vieira Dias and Adilson Marques Cunha
- 1:50-2:10 An Integrated Academic System Prototype using Accidents and Crises Management as PBL
LaisSiles, Mayara Moraes, Romulo Rodrigues, Lineu Lima, JoãoSiles, Rene Maria, Johnny Marques, Luiz Dias and Adilson Cunha
- 2:10-2:30 Agile Testing Quadrants on Problem-Based Learning involving Agile Development, Big Data, and Cloud Computing
James Martins, Adriano Pinto, Gildarcio Goncalves, Rafael Shigemura, Adilson Cunha and Luiz Dias
- 2:30-2:50 Integrating NoSQL, Relational Database, and the Hadoop Ecosystem in an Interdisciplinary Project involving Big Data and Credit Card Transactions
Romulo Alceu Rodrigues, Lineu Alves Lima Filho, Gildarcio Sousa Gonçalves, Lineu F. S. Mialaret, Adilson Marques da Cunha and Luiz Alberto Vieira Dias
- 2:50-3:10 Requirements Prioritization Using Hierarchical Dependencies
Luay Alawneh

B SESSIONS (Florentine F)

SESSION WB1: Education, Applications and Systems

CHAIR: **Dr. Samir Hamade, Kuwait University, Kuwait**

Co-CHAIR: TBA

10:30am - 12:30pm

- 10:30-10:50 Recruitment Drive Application
Raghavendar Cheruku, Doina Bein, Wolfgang Bein and Vlad Popa
- 10:50-11:10 Evaluating Assignments using Grading App
Nikyle Nguyen and DoinaBein
- 11:10-11:30 A Heuristic for State Power down Systems with Few States
James Andro-Vasko, Wolfgang Bein, Hiro Ito and Govind Pathak
- 11:30-11:50 Internet Addiction in Kuwait and Efforts to Control it
Samir N. Hamade
- 11:50-12:30 Multi-Camera Occlusion and Sudden-Appearance-Change Detection Using Hidden Markovian Chains
Xudong Ma
- 12:30-1:30 Lunch (on your own)

SESSION WB2: Signal Processing, UAVs

CHAIR: TBA

Co-CHAIR: **Dr. Marc Karam, Tuskegee University, USA**

1:30pm - 3:30pm

- 1:30-1:50 Development of a Portable, Low-Cost System for Ground Control Station for Drones
Douglas Soares, Alexandre Ramos and Roberto Junior
- 1:50-2:10 Collision Avoidance Based on Reynolds Rules: A Case Study using Quadrotors
Rafael Braga, Roberto Silva, Alexandre Ramos and Felix Mora-Camino Mora-Camino
- 2:10-2:30 Evaluation of Audio Denoising Algorithms for Application of Unmanned Aerial Vehicles in Wildlife Monitoring
Yun Long Lan, Ahmed Sony Kamal, Carlo Lopez-Tello, Ali Pour Yazdanpanah, Emma Regentova and VenkatesanMuthukumar
- 2:30-2:50 PID Speed Control of a DC Motor Using Particle Swarm Optimization
Marc Karam and Benedicta Obeng

- 2:50-3:10 Use of Intelligent Water Drops (IWD) for Intelligent Autonomous Force Deployment
Jeremy Straub and Eunjin Kim
- 3:10-3:30 Match-the-Sound CAPTCHA
Noshina Tariq and Farrukh Aslam Khan

Conference Conclusion

END OF SCHEDULE.....