



**The 17<sup>th</sup> International Conference on Information Technology: New Generations**

**April 6-8, 2020**  
**Virtual Conference**

**CONFERENCE LOGISTICS**

**Conference Overview:** The conference this year is being held online for everyone’s safety and convenience. A few items of note:

- The keynote addresses, panel, and tutorial will be live via Zoom.
- Conference talks are listed in the detailed Program Schedule (starting on page 2). Most talks have links to the talk video and/or slides. You can view them at your convenience.
- Lightning talks and Question/Answer sessions for each track will be live via Zoom.
- The Zoom link for the conference is [ITNG Zoom](#), also listed below. (Note that the tutorial – and *only* the tutorial – has a separate Zoom link.)
- An overview of the live portions of the schedule is below.

**Zoom Link** (for everything **except Tutorial**): [ITNG Zoom](#)

**Schedule Overview (Live Content – available via Zoom):**

<b>Date</b>	<b>Time*</b>	<b>Conference Activity</b>
<b>Monday, April 6<sup>th</sup></b>	08:00-08:15	Conference Welcome, Dr. Shahram Latifi
	08:15-09:15	Keynote Address, Dr. Zak Kasass
	09:15-10:30	Lightning Talks and Q&A for Track MA
	10:30-11:45	Lightning Talks and Q&A for Track MB
	11:45-12:15	Lightning Talks and Q&A for Track MC
<b>Tuesday, April 7<sup>th</sup></b>	08:00-09:00	Keynote Address, Dr. Gary Cottrell
	09:00-10:00	Lightning Talks and Q&A for Track TA
	10:00-12:00	Tutorial on Embedded Software ( <a href="#">Tutorial Zoom Link</a> , Password: 008067)
	10:30-11:30	Cybersecurity Panel
	12:00-13:00	Lightning Talks and Q&A for Track TB
	13:00-14:00	Lightning Talks and Q&A for Track TC
<b>Wednesday, April 8<sup>th</sup></b>	09:00-10:00	Lightning Talks and Q&A for Track WA

\*All times are listed as PT (Pacific Time)

**Lightning Talks and Q&A Sessions (Track Sessions):** Each of these live sessions discuss the talks from an entire track (i.e., Track MA or MB, etc.). Logistics are:

- These sessions run in the paper order listed in the track (see Program Schedule).
- **Session chairs** introduce the title of each talk from their session (i.e., MA1) in order. After each paper is introduced, if the author is present, the author gives a lightning talk (a 1-minute synopsis of the paper) followed by Q&A about their paper.
- **Attendees**, please aim to view the talks (video and/or slides) **before** the associated track session. Of course, we understand if your circumstances do not allow it.
- **Authors**, please aim to **attend** the Lightning Talk and Q&A Session associated with your talk, **prepare** a 1-minute lightning talk, and then answer questions about your paper. Of course, we understand if your circumstances do not allow it.

# **ITNG 2020 PROGRAM SCHEDULE**






## **April 6, 2020 - MONDAY**






- 08:00 - 08:15: **Opening Remarks by Dr. Shahram Latifi**  
**Conference Chair, University of Nevada Las Vegas**  
(Presented Live via Zoom)
- 08:15 – 09:15: Keynote by **Dr. Zak Kasass, University of California, Irvine**  
**“No GPS, No Problem: Exploiting Signals of Opportunity for Resilient and Accurate Autonomous Vehicle Navigation”**  
(Presented Live via Zoom)
- Q&A Session at end of talk** (Live via Zoom)

### **MA SESSIONS**

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09:15-10:30: **Lightning Talks and Q&A** for all MA Track talks (Live via Zoom)







<b>SESSION MA1 : Cybersecurity I</b>		
<b>CHAIR:</b> Dr. Hossein Zare, Johns Hopkins University, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Business Resilience in a Cyber World: Protect Against Attacks</a>	<i>Sharon L Burton</i>	 <a href="#">Video</a>
<a href="#">Business Continuity Plan and Risk Assessment Analysis in Case of a Cyber Attack Disaster</a>	<i>Hossein Zare, Ping Wang, M. Jalal Zare, Mojgan Azadi and Peter Olsen</i>	 <a href="#">Video</a>
<a href="#">A Comprehensive Mentoring Model for Cybersecurity Education</a>	<i>Ping Wang and Raed Sbeit</i>	 <a href="#">Video</a>
Observations on the performance of PQ KEMs	<i>Nir Drucker and Shay Gueron</i>	
Cyber Mission Operations: A Literature Review	<i>Rogerio Winter, Rodrigo Ruiz, Ferrucio de Franco Rosa and Mario Jino</i>	
<a href="#">Android Microphone Eavesdropping</a>	<i>Akvile Kiskis</i>	 <a href="#">Video</a>
<a href="#">Detecting Cyberbullying Activity across Platforms</a>	<i>April Edwards, David Demoll and Lynne Edwards</i>	 <a href="#">Video</a>
Assessment of National Crime Reporting System: Detailed Analysis of Communication	<i>Maurice Dawson, Pedro Taveras and David Galan Berasaluce</i>	






<b>SESSION MA2 : Cybersecurity II</b>		
<b>CHAIR:</b> Dr. Grzegorz Chmaj, University of Nevada Las Vegas, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Using Voice and Facial Authentication Algorithms as a Cyber Security Tool in Voice Assistant Devices</a>	<i>Luay Wahsheh and Isaac Steffy</i>	 <a href="#">_Video</a>
Assessment of National Crime Reporting System: Detailed Analysis of the Mobile Application	<i>Maurice Dawson, Pedro Taveras and Clément Deltel</i>	
<a href="#">Assessment of National Crime Reporting System: Detailed Analysis of the Desktop Application</a>	<i>Francisco García Martínez, Maurice Dawson and Pedro Taveras</i>	 <a href="#">_Video</a>
<a href="#">Toward Effective Cybersecurity Education in Saudi Arabia</a>	<i>Mohammad Zarour, Mamdouh Alenezi, Maurice Dawson and Izzat Alsmadi</i>	 <a href="#">_Video</a>
Intelligent Agent-based RBAC Model to Support Cyber Security Alliance among Multiple Organizations in Global IT Systems	<i>Rubina Ghazal, Nauman Qadeer and Ahmad Kamran Malik</i>	
<a href="#">A Consumer-centric Conceptual Framework for Trust Assessment in Cloud Computing</a>	<i>Amandio Balcão Filho, Ferrucio De Franco Rosa, Rodrigo Ruiz, Rodrigo Bonacin and Mario Jino</i>	 <a href="#">_Video</a>
<a href="#">An Evaluation of One-Class Feature Selection and Classification for Zero-Day Android Malware Detection</a>	<i>Yang Wang and Jun Zheng</i>	 <a href="#">_Video</a>







<b>SESSION MA3 : Cybersecurity III</b>		
<b>CHAIR:</b> Dr. Grzegorz Chmaj, University of Nevada Las Vegas, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
Blockchain and IoT: A proposed Security Framework	<i>Ahmed Ben Ayed, Pedro Taveras and Tarek Ben Younes</i>	
<a href="#">Malware Analysis Using the UnBox Tool</a>	<i>Alysson de Sousa Ribeiro and Edna Dias Canedo</i>	 <a href="#">_Video</a>
<a href="#">Distributed Operating System Security and Protection: A Short Survey</a>	<i>Ghada Abdelmoumin and Noha Hazzazi</i>	 <a href="#">_Video</a>
<a href="#">The Impact of DDoS Attacks on Application Containers, System Containers, and Virtual Machines</a>	<i>Austin White, Patrick O'Boyle, Sierra Wyllie and Jeffrey Galloway</i>	 <a href="#">_Video</a>
<a href="#">A Proposed Software Developed for Identifying and Reducing Risks at Early Stages of Implementation to Improve the Dependability of Information Systems</a>	<i>Askar Boranbayev, Seilkhan Boranbayev and Askar Nurbekov</i>	 <a href="#">_Video</a>
Identifying risk factors in implementing ERP systems in small companies	<i>Alexander Johansson and Ann Svensson</i>	

## MB SESSIONS

10:30-11:45: **Lightning Talks and Q&A** for all MB Track talks (Live via Zoom)







<b>SESSION MB1 : HCI, IoT &amp; CPS</b>		
<b>CHAIR:</b> Dr. Anteneh Girma, University of the District of Columbia, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Influence of Age on the Usability Assessment of the Instagram Application</a>	<i>Beatriz Giassi and Rodrigo Seabra</i>	 <a href="#">Video</a>
<a href="#">A Speech Recognition Mechanism for Enabling Interactions between End-Users and Healthcare Applications</a>	<i>Henrique Couto, Ítalo Lima, Rychard Souza, André Araújo and Valéria Times</i>	 <a href="#">Video</a>
User's privacy management in IoT environment using dojot platform	<i>Rafael Tomé de Souza, Gustavo Faganello dos Santos and Sergio Donizetti Zorzo</i>	
<a href="#">Hardware-Based Emulator for Building Energy Cyber-Physical Control with Occupancy Sensing</a>	<i>Fei Hu, Zhijing Ye, Zhe Chu, Lin Zhang and Zheng O'Neill</i>	 <a href="#">Video</a>
<a href="#">Certification-Based Modeling Approach of Medical Cyber-Physical Systems: An Insulin Infusion Pump Case Study</a>	<i>Lenardo Chaves E Silva, Alvaro Sobrinho, Elizieb Luiz Liberato Pereira, Helder F. de Araujo Oliveira, Leandro Dias da Silva, Hyggo Oliveira de Almeida and Angelo Perkusich</i>	 <a href="#">Video</a>
<a href="#">Semi-Supervised Outlier Detection and Deep Feature Extraction for Detecting Cyber-attacks in Smart Grids Using PMU Data</a>	<i>Ruobin Qi, Craig Rasband, Jun Zheng and Raul Longoria</i>	 <a href="#">Video</a>
Internet of Things (IoT) Security threats and its Challenge on Cloud Computing: "Case Study on: Mitigating Cyber-threats Against Drones and its Susceptible Interconnected Devices	<i>Anteneh Girma, Vilissia Edmonds, Alpha Diallo and Stephane Sipa</i>	
<a href="#">Open Source Capture and Analysis of 802.11 Management Frames</a>	<i>Kyle Cronin</i>	 <a href="#">Video</a>

<b>SESSION MB2 : Education I</b>		
<b>CHAIR:</b> Dr. Sarah Harris, University of Nevada, Las Vegas, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Audible Code, a Voice-Enabled Programming Extension of Visual Studio Code</a>	<i>Pranav Joshi and Doina Bein</i>	 <a href="#">Video</a>
A Brazilian Web Platform for Developing Massive Online Open Courses	<i>Mateus Toledo and Rodrigo Seabra</i>	
<a href="#">Educa3C: Framework for Gamification of Educational Systems using Behavioral Analysis</a>	<i>Fernanda Pereira Gomes, Parcilene Fernandes De Brito, Edna Dias Canedo and Gabriel Borges Caetano De Almeida</i>	 <a href="#">Video</a>
<a href="#">Custom Hardware Teaching Aid for Undergraduate Microcontroller Laboratory Class</a>	<i>Grzegorz Chmaj</i>	 <a href="#">Video</a>
<a href="#">ARM-based Digital Design and Computer Architecture Curriculum</a>	<i>Sarah L. Harris and David M. Harris</i>	 <a href="#">Video</a>
<a href="#">SpeakOut, a Web App for Online Therapy and Web Counseling</a>	<i>Shubhshree Anand, Doina Bein, James Andro-Vasko and Wolfgang Bein</i>	 <a href="#">Video</a>

<b>SESSION MB3 : Education II</b>		
<b>CHAIR:</b> Dr. Doina Bein, California State University, Fullerton, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Using Projects on Clustering and Linear Regression to Develop Basic Research Skills in Freshmen and Sophomore Undergraduate Students</a>	<i>Janelle Estabillo, Derrick Lee, Christopher Ly, Doina Bein, Sudarshan Kurwadkar and Jidong Huang</i>	 <a href="#">Video</a>
<a href="#">Initiating Research Skills in Undergraduate Students through Data Science Projects</a>	<i>Anoosha Ahmed, Lorena Macias, Graciela Orozco, Matthew McCune, Maria Medina, Doina Bein, Sudarshan Kurwadkar, Jidong Huang, Ovidiu Daescu, Dianna Xu and Yu Bai</i>	 <a href="#">Video</a>
<a href="#">Designing a Unity Game Using the Haptic Feedback Gloves, VMG 30 Plus</a>	<i>David Tu, Doina Bein and Mikhail Gofman</i>	 <a href="#">Video</a>
Single and Multibranch CNN-Bidirectional LSTM for IMDb Sentiment Analysis	<i>Chary Vielma, Abhishek Verma and Doina Bein</i>	 <a href="#">Video</a>
<a href="#">Teacher Mate: a support tool for teaching code quality</a>	<i>Darlan Nakamura, Danilo Eler and Rogério Garcia</i>	 <a href="#">Video</a>
<a href="#">Education 4.0: Research Gap in School Formation and Technological Development</a>	<i>José Salvador Da Motta Reis, Ana Carolina Ferreira Costa, Maxmilian Espuny, Wesley Jardim Batista, Fernanda Ellen Francisco, Gildarcio Sousa Goncalves, Paulo Marcelo Tasinaffo, Otavio Jose Oliveira and Luiz Alberto Vieira Dias</i>	 <a href="#">Video</a>

## MC SESSION

11:45-12:15: **Lightning Talks and Q&A** for all MC Track talks (Live via Zoom)

<b>SESSION MC1 : Short Papers</b>		
<b>CHAIR:</b> Dr. Doina Bein, California State University, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Basic Concepts and Considerations of Cyber-deterrence</a>	<i>Peter Olsen, Hossein Zare, Todd Olsen and Mojgan Azadi</i>	 <a href="#">Video</a>
Open Source Capture and Analysis of 802.11 Management Frames	<i>Kyle Cronin and Michael Ham</i>	
Developing Cryptography Key Management Plans for Healthcare Institutions	<i>Jenneh Lawson</i>	
<a href="#">A Hybrid Dictionary Model for Ethical Analysis</a>	<i>Daniela América da Silva, Henrique Duarte Borges Louro, Gildárcio Sousa Goncalves, Johnny Cardoso Marques, Luiz Alberto Vieira Dias, Adilson Marques da Cunha and Paulo Marcelo Tasinaffo</i>	 <a href="#">Video</a>
<a href="#">Self-Efficacy among Users of Information and Communication Technologies in the Brazilian School Environment</a>	<i>Fernanda Garcia, Adriana Mattedi and Rodrigo Seabra</i>	 <a href="#">Video</a>
<a href="#">The Analysis of How The Cost of A Cyber-Security Data Breach Could be Quantified</a>	<i>Richmond Ikechukwu Ibe</i>	 <a href="#">Video</a>
Affordable Mobile Data Collection Platform and IT Training in Benin: Analysis of Performance and Usability	<i>Andreas Vassilakos, Damon Walker and Maurice Dawson</i>	
A Smart Green House Control and Management System Using IoT	<i>Haidar Harmanani and Abdallah Chamra</i>	
<a href="#">Evaluating and Applying Risk Remission Strategy Approaches to Prevent Prospective Failures in Information Systems</a>	<i>Askar Boranbayev, Seilkhan Boranbayev and Askar Nurbekov</i>	 <a href="#">Video</a>
Usability Assessment of Google Assistant and Siri Virtual Assistants Focusing on Elderly Users	<i>Tiago Barros and Rodrigo Seabra</i>	
<a href="#">Building the Chain: Securing the Internet of Things in Healthcare</a>	<i>Pebbles Eppes and Luay Wahsheh</i>	 <a href="#">Video</a>

## April 7, 2020 - TUESDAY

08:00 – 09:00: **Keynote by Dr. Gary Cottrell, University of California, San Diego**  
**“Ethics and AI: The Good, the Bad, and the Ugly”**  
 (Presented Live via Zoom)




**Q&A Session at end of talk** (Live via Zoom)






**Conference Zoom Link** (repeated here for convenience): [ITNG Zoom](#)






### TA SESSION

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09:00 - 10:00: **Lightning Talks & Q&A** for all TA Track talks (Live via Zoom)

<b>SESSION TA1 : Blockchain Technology</b>		
<b>CHAIR:</b> Dr. Anteneh Girma, University of the District of Columbia, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Decentralized Reputation System on a Permissioned Blockchain for E-commerce Reviews</a>	<i>Carl Kugblenu and Petri Vuorimaa</i>	 <a href="#">Video</a>
<a href="#">Incorporating Blockchain into Role Engineering: A Reference Architecture using ISO/IEC/IEEE 42010 Notation</a>	<i>Aqsa Rashid, Asif Masood and Haider Abbas</i>	 <a href="#">Video</a>
<a href="#">Enhanced SAT Solvers based Hashing Method for Bitcoin Mining</a>	<i>Sa'Ed Abed, Ali Ashkanan, Amjad Gawanmeh and Wathiq Mansoor</i>	 <a href="#">Video</a>

<b>SESSION TA2 : High Performance Computing</b>		
<b>CHAIR:</b> Dr. Anteneh Girma, University of the District of Columbia, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Simulation of Brownian Motion for Molecular Communications on a Graphics Processing Unit (GPU)</a>	<i>Yun Tian, Uri Rogers, Tobias Cain, Yanqing Ji and Fangyang Shen</i>	 <a href="#">Video</a>
<a href="#">The privacy preserving framework with virtual ring and identity-based cryptography for Smart Grid</a>	<i>Yu-Wen Chen and Leonard Sutanto</i>	 <a href="#">Video</a>
Sumudu Transform for Automatic Summations	<i>Jun Zhang and Fangyang Shen</i>	
<a href="#">Data Intensive System's Architectural Perspective on Scalability</a>	<i>Smruti Nanda and Hassan Reza</i>	 <a href="#">Video</a>
<a href="#">On Model-based Development of Embedded Software for Evolving Automotive E/E Architectures</a>	<i>Alessio Bucaioni, John Lundbäck, Mikael Sjödin and Saad Mubeen</i>	 <a href="#">Video</a>
<a href="#">Intelli-dynamic Malware Detecton Based on Processor Behaviors</a>	<i>Jordan Pattee and Byeong Kil Lee</i>	 <a href="#">Video</a>

<b>SESSION TA3 : Virtual Reality</b>		
<b>CHAIR:</b> Dr. Fred Harris, University of Nevada, Reno, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Multi-User VR Cooperative Puzzle Game</a>	<i>Andrew Flangas, Lucas Calabrese and Frederick Harris</i>	 <a href="#">Video</a>
<a href="#">TDVR: Tower Defense in Virtual Reality</a>	<i>Andrew Munoz, Zach Young, Frederick Harris and Sergiu Dascalu</i>	 <a href="#">Video</a>
<a href="#">vFireVI: 3D Virtual Interface for vFire</a>	<i>Christopher Lewis, Ronn Siedrik Quijada and Frederick Harris</i>	 <a href="#">Video</a>
<a href="#">A Comparison Between a Natural and an Inorganic Locomotion Technique</a>	<i>Andrew Flangas, Lucas Calabrese, Kurt Andersen, Sergiu Dascalu and Frederick Harris</i>	 <a href="#">Video</a>
<a href="#">METS VR: Mining Evacuation Training Simulator in Virtual Reality for Underground Mines</a>	<i>Simone Gaab, Kurt Andersen, Javad Sattarvand and Frederick Harris</i>	 <a href="#">Video</a>

**Tutorial** [Zoom link \(for this tutorial only\)](#) **Password: 008067**

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10:00 - 12:00: [Tutorial on Embedded Software by Mr. John Lundback \(Arcticus Systems, Sweden\), Dr. Alessio Bucaioni \(Malardalen University, Sweden\), and Dr. Saad Mubeen \(Malardalen University, Sweden\)](#)

**Q&A Session at end of tutorial**

**Tutorial Chair:** Dr. Doina Bein, California State University, USA

**Cybersecurity Panel (overlapping with Tutorial)** (Live via Zoom)




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10:30 - 11:30: [The Role of Partnership and Collaboration with Industry in Cyber Defense Education](#)





**Q&A Session at end of panel**



**TB SESSION**12:00-13:00: **Lightning Talks and Q&A** for all TB Track talks (Live via Zoom)






<b>SESSION TB1 : Data Mining/Machine Learning I</b>		
<b>CHAIR:</b> Dr. Doina Bein, California State University, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Data Mining in the Contractual Management of the Brazilian Ministry of Health: A Case Study</a>	<i>Alexandre Vinhadelli Papadopolis and Edna Dias Canedo</i>	 <a href="#">Video</a>
<a href="#">Using Data Mining Techniques to Perform School Dropout Prediction: A Case Study</a>	<i>Renato Carauta Ribeiro and Edna Dias Canedo</i>	 <a href="#">Video</a>
<a href="#">A Hybrid System for Querying Flight Data</a>	<i>Claudio Dias, Thiago Reis and Sergio Penna</i>	 <a href="#">Video</a>

<b>SESSION TB2 : Data Mining/Machine Learning II</b>		
<b>CHAIR:</b> Dr. Luiz Dias, ITA, Brazil		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">DDNN : a Deep Learning Approach for Detection of Depression-Related Posts in Twitter Tweets</a>	<i>Raza Ul Mustafa, Noman Ashraf, Javed Ferzund, Alexander Gelbukh and Basit Shahzad</i>	 <a href="#">Video</a>
<a href="#">A-SLIC: Acceleration of SLIC Superpixel Segmentation Algorithm in a Co-design Framework</a>	<i>Manisha Ghimire</i>	 <a href="#">Video</a>
Creating Culturally Responsive Noyce Explorers, Scholars and Teachers	<i>Fangyang Shen and Janine Roccosalvo</i>	
A Solution to existing performance monitoring inherited limitation Using Smart Performance Monitoring Combining Diagnostic Capabilities and Value Creation Determination – U.S Patent	<i>Mohammed Alabduhmosen</i>	
<a href="#">Self-Admitted Technical Debt classification using LSTM neural network</a>	<i>Rafael Meneses Santos, Methanias Colaço Júnior and Manoel Gomes de Mendonça</i>	 <a href="#">Video</a>
<a href="#">A Software Architecture of Test Case Tools for Object-Oriented Programs</a>	<i>Assunaueny Rodrigues de Oliveira, Alvaro Sobrinho, Reudismam Rolim de Sousa, Lenardo Chaves E Silva and Helder Fernando de Araujo Oliveira</i>	 <a href="#">Video</a>
<a href="#">System Architecture and Design of an In-House Built Student Registrar System Intended for Higher Education Institution</a>	<i>Askar Boranbayev, Ruslan Baidyussenov and Mikhail Mazhitov</i>	 <a href="#">Video</a>

<b>SESSION TB3 : Health IT</b>		
<b>CHAIR:</b> Dr. Hossein Zare, Johns Hopkins University, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">MyHealth: A System for Monitoring Non-Communicable Diseases</a>	<i>Ronitti Juner Da Silva Rodrigues, Ivo Palheta Mendes and Wanderley Lopes De Souza</i>	 <a href="#">Video</a>
<a href="#">Fly Roller: Development of an Instrument to Exercise Fruit Flies</a>	<i>Reiner Dizon, Angel Solis, Ameera Essaqui, Michael Isaacs, Austin McKenna, Allen Gibbs, David Lee and Sarah Harris</i>	 <a href="#">Video</a>
<a href="#">An Architecture of a Gamified Application for Monitoring and Treating the Chronic Kidney Disease</a>	<i>Carlos Antonio da Silva, Alvaro Sobrinho and Leandro Dias da Silva</i>	 <a href="#">Video</a>
<a href="#">An HL7-Based Middleware for Exchanging Data and Enabling Interoperability in Healthcare Applications</a>	<i>Carlos Bezerra, André Araújo and Valéria Times</i>	 <a href="#">Video</a>
<a href="#">Towards a Hospital Dynamics Model in the Age of Cybercrime</a>	<i>Claudio Lelis, Silvio Assunção Filho and Cesar Marcondes</i>	 <a href="#">Video</a>
<a href="#">Understanding Security Risks When Exchanging Medical Records Using IHE</a>	<i>Simranjit Bhatia and Ahmed Ibrahim</i>	 <a href="#">Video</a>

## TC SESSION

13:00-14:00: **Lightning Talks and Q&A** for all TC Track talks (Live via Zoom)

<b>SESSION TC1 : Short Papers</b>		
<b>CHAIR:</b> Dr. Doina Bein, California State University, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">Properties of Haar-like Four-point Orthogonal Transforms for Image Processing</a>	<i>Kensuke Fujinoki</i>	 <a href="#">Video</a>
<a href="#">A Hybrid Visualization Approach to Perform Analysis of CNN Features</a>	<i>Wilson Marcílio Júnior, Danilo Eler, Rogério Garcia, Ronaldo Correia and Lenon Silva</i>	 <a href="#">Video</a>
<a href="#">Load Balancing of Financial Data using Machine Learning and Cloud Analytics</a>	<i>Dimple Jaiswal and Dr Michael Galloway</i>	 <a href="#">Video</a>
<a href="#">Investigating the Impact of Developers Sentiments on Software Projects</a>	<i>Rui Carige and Glauco Carneiro</i>	 <a href="#">Video</a>
<a href="#">Esophageal Abnormality Detection from Endoscopic Images Using DT-CDWT and Persistent Homology</a>	<i>Kohei Watarai, Hajime Omura and Teruya Minamoto</i>	 <a href="#">Video</a>

## April 8, 2020 - WEDNESDAY

09:00-10:00: **Lightning Talks and Q&A** for all WA Track talks (Live via Zoom)  
**Conference Zoom Link** (repeated here for convenience): [ITNG Zoom](#)

<b>SESSION WA : Potpourri</b>		
<b>CHAIR:</b> Dr. Shahram Latifi, University of Nevada Las Vegas, USA		
<b>Paper (clickable PDF, if available)</b>	<b>Author(s)</b>	<b>Video Link (if available)</b>
<a href="#">The State of Reproducible Research in Computer Science</a>	<i>Jorge Fonseca and Kazem Taghva</i>	📺 <a href="#">Video</a>
<a href="#">A Widespread Solution to Tracking Low Cost UAV in Power Lines</a>	<i>Antonio Dantas Filho, Alexandre Ramos, Leandro Jesus, Hildebrando de Castro Filho and Felix Mora-Camino</i>	📺 <a href="#">Video</a>
<a href="#">Ego-Motion Estimation Using Affine Correspondences</a>	<i>Khaled Alyousefi and Jonathan Ventura</i>	📺 <a href="#">Video</a>
<a href="#">Mapping and Conversion between Relational and Graph Databases Models: a Systematic Literature Review</a>	<i>Anderson Tadeu De Oliveira, Adler Diniz De Souza, Edmilson Marmo Moreira and Enzo Seraphim</i>	📺 <a href="#">Video</a>
<a href="#">Decentralized Multi-Robot System for Formation Control of Quadcopters: The Integration Between the Virtual and Real World</a>	<i>Alexandre Harayashiki Moreira, Wagner Tanaka Botelho, Maria Das Graças Bruno Marietto, Edson Pinheiro Pimentel, Murilo Zanini de Carvalho and Tamires dos Santos</i>	📺 <a href="#">Video</a>
A Progressive Second Price Auction (2PM) for a Hong Kong Secondary Exchange Market (2cm)	<i>Jordan Blocher</i>	
<a href="#">Towards GPU-Accelerated PRM for Autonomous Navigation</a>	<i>Janelle Blankenburg, Richard Kelley, David Feil-Seifer, Rui Wu, Lee Barford and Frederick Harris</i>	📺 <a href="#">Video</a>
Fast Heuristics for Covering 1.5D Terrain	<i>Laxmi Gewali and Jiwan Khatiwada</i>	
<a href="#">Online Competitive Schemes for Pseudo-linear Power-down Systems</a>	<i>James Andro-Vasko, Wolfgang Bein, Benjamin Cisneros and Janelle Domantay</i>	📺 <a href="#">Video</a>
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