

# BTSym '20

Brazilian Technology Symposium

PERU

## Conference Program

December 9th, 10th and 11th - 2020

Universidad Peruana de Ciencias Aplicadas, Lima - Peru

### Organization





# Welcome to the BTSym'2020 as a Virtual Event

The Brazilian Technology Symposium (BTSym), **ISSN 2447-8326**, is an event created by Laboratory of Visual Communications of the Faculty of Electrical and Computer Engineering at the University of Campinas. This is an excellent forum for presentations and discussions of the latest results of projects and development research, in several areas of knowledge, in scientific and technological scope.

This event seeks to bring together researchers, students and professionals from the industrial and academic sectors, seeking to create and/or strengthen the linkages between issues of joint interest. Participants are invited to submit research papers, case studies, articles of opinion or posters, showing studies, methodologies and results achieved in scientific level research projects, completion of course work for graduation, dissertations and theses.

The BTSym'20 organizing committee invites researchers to attend and submit papers addressing the current research topics of interest. In 2020, the event after three days in duration, on **December 9th, 10th and 11th, at the Universidad Peruana de Ciencias Aplicadas, Lima-Perú**. Proceedings of the event will be published by the **Springer** publisher through the book **Proceedings of the 6<sup>th</sup> Brazilian Technology Symposium - Emerging Trends and Challenges in Technology**, and will be submitted for indexing by **Scopus, El Compendex database, Google Scholar and Springerlink**



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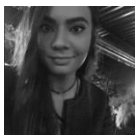
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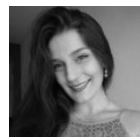
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# General information

## Conference location:

Virtual via Webex

## Contact Info:

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## Contact BTSym Support:

If you have any need for additional information, doubts, concerns and/or system issues please feel free to contact the Editorial Office via email.

Email Address:

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## Virtual Oral and Poster Presentations:

The authors are obliged to be present during the panels designated for the presentation, using the time given by the person in charge of the panel discussion or poster session. Such presentations utilize technological solutions to allow you present live.

## Useful Telephone Numbers:

Police: 105

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These numbers may be dialed from public or mobile phones, even without a card.

# Official Opening – Event Virtual

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<b>December 9th, 2020</b>	
<b>9:00 - 9:30</b>	<p><b>Official Opening</b></p> <ul style="list-style-type: none"><li>- Dr. Jorge Cabrera</li><li>- Dr. Alfredo Garcia</li><li>- Dr. Yuzo Iano</li></ul> <p><b>Moderator:</b></p> <ul style="list-style-type: none"><li>- Guillermo Kemper</li></ul>
<b>9:30 - 10:30</b>	<p><b>Opening Speaker: “Uma Mirada al Ecosistema de Ciencia, Tecnologia e Innovación del Perú: Avances y Retos”</b></p> <p><b>Moderator:</b></p> <ul style="list-style-type: none"><li>- Mg. Angel Paul Hurtado Erazo , Universidad Peruana de Ciencias Aplicadas</li></ul>

# Plenary Talks - PANEL 1

<b>December 9th, 2020</b>	
<b>10:30 - 13:30</b>	<p><b>Panel discussion 1:</b> Management Engineering Industrial Processes</p> <p><b>Moderator:</b> Ing. Luis Enrique Cardenas</p>
<b>10:30 – 11:30</b>	<p><b>Lecture: “La Ciencia de Datos y sus Retos y Aportes de Investigación en la Pandemia del Covid-19”</b></p> <p><b>Speaker:</b> Dr. Javier Martinez, Universidad Rey Juan Carlos</p>
<b>11:30 - 11:50</b>	<p><b>Paper: Failure Management in a Gold Mill Tailings Treatment Process</b>            Authors: Mylena Karen Vílchez Torres, Roxana Elizabeth Mestanza Cacho, Carlos Gastón Guevara Alejabo, Carlos Alberto Silvera Peña.</p>
<b>12:10 – 12:30</b>	<p><b>Paper: Plan-Do-Check-Act (PDCA) Model for Increasing Student Satisfaction with Psycho-Pedagogical Support Services at Universities</b>            Authors: Milagros Katherine Herrera Encarnació, Gricel Meza Nolorbe, Carlos Luis Torres Sifuentes.</p>
<b>12:30 - 12:50</b>	<p><b>Paper: Reducing Waste in Fast-Food Restaurants: A Demand-Driven MRP-Based Collaborative Model</b>            Authors: Gianella Carbajal-Román, César Lopez-Vela, Gino Viacava, Juan Quiroz-Flores.</p>
<b>12:50 - 13:10</b>	<p><b>Paper: Waste Reduction Model Design in Textile Industry: A Lean Manufacturing Approach</b>            Authors: Sebastián Torres-Luna, Javier Valdivia-Ríos, Iliana Macassi-Jáuregui, Gino Viacava, Claudia Leon-Chavarri, Edgar Ramos-Palomino.</p>
<b>13:10 - 13:30</b>	<p><b>Paper: Lean Process Optimization Model for Improving Processing Times and Increasing Service Levels Using a Deming Approach in a Fishing Net Textile Company</b>            Authors: Anthuane Carrillo-Corzo, Erick Tarazona-Gonzales, Juan Quiroz-Flores, Gino Viacava.</p>
<b>13:30 - 14:10</b>	<p><b>Paper: ABC Costing Model for a Mype of the Metalworking Sector</b>            Authors: Jenner José Saavedra Rosales, Katherine Emilia Camacho Sanchez, Yeimy Salvatierra, Grimaldo Wilfredo Quispe Santivañez.</p>



# BTSym'20 Poster Sessions

<b>December 9th, 2020</b>	
<b>11:30 - 13:30</b>	<p><b>Poster Session</b></p> <p><b>Moderator:</b> Ing. Gianpierre Zapata</p>
11:30 – 11:40	<p><b>Paper: Fitoextracción de Metales Pesados del Suelo del Pasivo Ambiental Minero Aurora-Patricia por las Especies Herbáceas Carex Mandoniana, Equisetum Bogotense y Muehlenbeckia Tamnifolia, la Encañada-Perú 2020</b></p> <p>Authors: Cristina López Rodríguez, Carlita Izquierdo Ramirez, Leoncio Lanfranco Colina, Jackelin Ciriaco Mosqueira, Marco Alfredo Sánchez Peña, Marieta Cervantes Peralta, Marco Alfredo Sánchez Peña.</p>
11:40 - 11:48	<p><b>Paper: Determinación del Estado Trófico de la Laguna San Nicolás, Namora-Perú a Través de la Cuantificación de Clorofila “a”, Nitratos, Fosfatos y Transparencia</b></p> <p>Authors: Jackelin Ciriaco Mosqueira, Leoncio Lanfranco Colina, Cristina López Rodríguez, Carlita Izquierdo Ramírez, Marco Alfredo Sánchez Peña, Magda Velásquez Marín, Marco Alfredo Sánchez Peña.</p>
11:56 - 12:04	<p><b>Paper: Lean Manufacturing Model Using a Biotechnological Approach for Increasing Efficiency and Reducing Waste at a Small Plastic Production Company</b></p> <p>Authors: Carlos Raymundo, Alejandro Tapia-Landa, Diego Samar-Tarazona, Ernesto Altamirano-Flores.</p>
12:04 - 12:12	<p><b>Paper: Method for the Identification of Criticality Levels Through Microtectonic and Geotectonic Studies in Surface Outcrops with a Potential Impact on Underground Mining Works</b></p> <p>Authors: Carlos Raymundo, Mateo Javier Chizola Cisneros, Humberto Pehovaz Alvarez, Elizabeth Cynthia Espiritu León, Guillermo Nicanor Díaz Huaina.</p>
12:12 - 12:20	<p><b>Paper: Strategic Management Model in Supply Chain Using Balanced Scorecard Approach</b></p> <p>Authors: Frank Olarte Boza, Steve Camilo Tito Arias, Guillermo Nicanor Díaz Huaina, Carlos Raymundo.</p>
12:20 - 12:28	<p><b>Paper: A Diagnostic Model for Determining the Reasons Causing Low Quality Logistics Services in SME Logistics Operators</b></p> <p>Authors: Edgardo Vega-Barros, Pamela Palomino-Ruiz, Claudia Leon-Chavarri, Pedro Bermudez-Sanabria.</p>

# BTSym'20 Poster Sessions

<b>December 9th, 2020</b>	
<b>11:30 - 13:30</b>	<p><b>Poster Session</b></p> <p><b>Moderator:</b> Ing. Gianpierre Zapata</p>
12:28 – 12:36	<p><b>Paper: Productivity Improvement Model in Small and Medium Metal Extruding Companies, Applying Total Productive Maintenance, Six Sigma, and Process Standardization</b></p> <p>Authors: Jorginhio Andoni Luciano Apolinario, Ricardo William Meza Flores, Claudia Leon-Chavarri, Pedro Bermudez-Sanabria.</p>
12:36 - 12:44	<p><b>Paper: A Production Management-Based Lean Manufacturing Model for Removing Waste and Increasing Productivity in the Sewing Area of a Small Textile Company</b></p> <p>Authors: Stefanny Zamora-Gonzales, José Gálvez-Bazalar, Juan Quiroz-Flores.</p>
12:44 - 12:52	<p><b>Paper: Thermal Stability of Anthocyanins in Grape Skin Extracts from Red Winemaking Residues</b></p> <p>Authors: María Fernanda Merino-Miñano, Gladys Esmeralda Luján-Herrera, Ricardo Vejarano.</p>
12:52 - 13:00	<p><b>Paper: Regulatory Proposals for the Inclusion of Smart Grids in Colombia, Contributing to the Development of Smart Cities in Articulation with Renewable Energies</b></p> <p>Authors: Elkin A. Caro-Acevedo, Alvaro Jaramillo-Duque.</p>
13:00 – 13:08	<p><b>Paper: Direct Speed Control Scheme for Maximum Power Point Tracking of the DFIG Wind Turbine System</b></p> <p>Authors: Edy Ayala, Nicolás Pozo, Silvio Simani, Eduardo Muñoz.</p>
13:08 - 13:16	<p><b>Paper: Cybersecurity and Privacy Capabilities: A Model for Data Management Against Cyber-Attacks in the Health</b></p> <p>Authors: Jimmy Armas, Humberto Salcedo, Henry Pérez.</p>

# Plenary Talks - PANEL 2

<b>December 9th, 2020</b>	
16:00 - 19:00	<p><b>Panel discussion 2:</b> Electronics, Automation and Telecommunications.</p> <p><b>Moderator:</b> Ing. Kalun Lau</p>
16:00 – 17:00	<p><b>Lecture: “An Overview of RF and Optical Sensors for Radar and Biomedical Applications”</b></p> <p><b>Speaker:</b> Dr. Jorge Salazar, Universidad de Oklahoma</p>
17:00 – 17:20	<p><b>Paper: Measurements and Outdoor Propagation Channel Characterization for Rumiwasi Archaeological site at 920MHz</b>            Authors: Henry Lois Davila Andrade, Jorge Luis Arizaca Cusicuna, Mark D. Clemente Arenas.</p>
17:20 – 17:40	<p><b>Paper: Parallel Adaline for Active Power Filter</b>            Authors: Roger Chuquipiondo, Christian Flores, Julien Noel.</p>
18:00 – 18:20	<p><b>Paper: Hash Authentication VANETS Message(HAVM) Against Message Tampered(MITMattack)</b>            Authors: Martin Velez, Selena Jiminez, Cristhian Iza.</p>
18:20 – 18:40	<p><b>Paper: Fuzzy PID Control System Analysis for a Wind Turbine Maximum Power Point Tracking Using FAST and Matlab Simulink</b>            Authors: Eduardo Gabriel Muñoz Palomeque, Edy Ayala.</p>
18:40 – 19:00	<p><b>Paper: A Low-Complexity Algorithm for Diagnosis of Three-Phase Induction Motors</b>            Authors: Marco Baltazar, Brian Ramírez, Guillermo Kemper.</p>
19:00 – 19:20	<p><b>Paper: Implementation of A Control System in A Dual Axis Cylindrical-Parabolic Solar Tracking System</b>            Authors: William Oñate, Vladimir Catota, Jonathan Simbaña, Gustavo Caiza.</p>

# Plenary Talks - PANEL 3

<b>December 10th, 2020</b>	
<b>9:00 - 12:00</b>	<b>Panel discussion 3:</b> Infrastructure and Environment. <b>Moderator:</b> Ing. Daniel Aderhold
9:00 – 10:00	<b>Lecture:</b> Sostenibilidad urbana: entre el espejismo y la misión <b>Speaker:</b> Dr. Jorge Achata, Universidad Peruana de Ciencias Aplicadas
10:00 – 10:40	<b>Paper: Design of a Warm Mix Asphalt (WMA) with Addition of Recycled Rubber for the Reduction of Permanent Deformation</b> Authors: Lucero Sandoval, Luis Marceliano, Manuel Silvera, Fernando Campos.
10:40 – 11:00	<b>Paper: Identificación de Flora Herbácea con Mayor Valor de Importancia y Evaluación de su Capacidad Fitorremediadora en Suelos Contaminados, Tumbacucho - Perú</b> Authors: Jhony Lezama Oribe, Dante Saldaña Vega, Magda Velásquez Marín, Marco Alfredo Sánchez Peña, Marco Alfredo Sánchez Peña.
11:00 – 11:20	<b>Paper: Increase in Bearing Capacity in Subgrade Composed of Low Plasticity Clays Using Stabilization with Recycled Fiberglass Powder</b> Authors: Cynthia Carhuapoma, Jaime Tito, Manuel Silvera, Fernando Campos.
11:20 – 11:40	<b>Paper: Effect of Granulometry on the Physicochemical and Sensory Properties of Green Banana Peel Flour-Based Snacks for Two Treatments</b> Authors: Lizbeth Del Pilar Cruzado Muñoz, Deysi Valdiviezo, Guillermo Linares.
11:40 – 12:00	<b>Paper: Morphological changes in Mala River basin (Peru) by RUSLE and geospatial techniques</b> Authors: Geraldine Roque, Cyndel Santisteban, Joel Fernandez, Sissi Santos.
12:00 – 12:20	<b>Paper: Assessment of Geothermal Potential and Estimation of Ground Settlements Following the Implementation of a Thermo-Active Piles System in the Southern of Peru</b> Authors: Gary Duran, Anel Canturin, Yanell Casabona.

# BTSym'20 Workshop Session

<b>December 10th, 2020</b>	
<b>10:00 - 12:00</b>	<p><b>Workshop Session</b></p> <p><b>Moderator:</b> Ing. Heyul Chavez</p>
10:00 – 10:08	<p><b>Paper: Study for the Development of a Scalable Module Based on a Smart Campus Approach to Transform an Ordinary Library Into a Smart Library Through Use of KPIs and Planning of Projects</b></p> <p>Authors: Moises Ariste Flores Tinoco, Alvaro Martín Aspilcueta Narvaez, Carlos Enrique Rojas Povis, Piero Sebastian Rojas Garcia, Dennis Joel Zárate Torres.</p>
10:08 - 10:16	<p><b>Paper: Digital Repository of Open Data to Improve Access to Public Information of Employment Offers in the Institutions of the Peruvian State</b></p> <p>Authors: Oscar Capuñay-Uceda, Helga Quiroz-Chavil, Manuel Sánchez-Chero.</p>
10:16 - 10:24	<p><b>Paper: Analysis of the Activation Volume and the Pressure Resistance for Handling Kinetic of Processing Food</b></p> <p>Authors: William Miranda-Zamora, Manuel Sánchez-Chero, Abraham Ygnacio, Lucio Ticona, Nelly Leyva-Povis, Leandro Vallejos-More.</p>
10:24 - 10:32	<p><b>Paper: Estudio de la Anemia en Menores de Cinco Años en el Perú Mediante Análisis Exploratorio de Datos Espaciales</b></p> <p>Authors: Olga Solano Dávila, Fátima Medina Merino, Grabiela Montes Quintana, Gregoria Ramón Quispe, Nelly Pillhuaman Caña, Olga Bolaños Solano.</p>
10:32 – 10:40	<p><b>Paper: Análisis Exploratorio de Datos Espaciales Sobre los Resultados de la ECE en Segundo Grado de Secundaria, Perú, 2018</b></p> <p>Authors: Olga Solano Dávila, Doris Gómez Ticerán, Grabiela Montes Quintana, Gregoria Ramón Quispe, Nelly Pillhuaman Caña, Daniel Bolaños Solano.</p>
10:40 - 10:48	<p><b>Paper: Financial Planning and its Relationship in the Profitability of SME "Distrac Perú S.A.C." in Trujillo, 2019</b></p> <p>Authors: Carlos Perez, Benigno Silva, Julia Sagastegui.</p>
10:48 – 10:56	<p><b>Paper: Characteristics of Musculoskeletal Imaging of Foot in Healthy Subjects Analyzed by Photogrammetry: A Non-Invasive Medical Examination</b></p> <p>Authors: Dante Rodriguez, Santiago Benites.</p>

# BTSym'20 Workshop Session

<b>December 10th, 2020</b>	
<b>10:00 - 12:00</b>	<b>Workshop Session</b> <b>Moderator:</b> Ing. Heyul Chavez
10:56 – 11:04	<b>Paper: Corporate Social Responsibility and its Relationship With the Economic Growth of the Company "Inversiones Generales Miosan S.A.C.", Trujillo, 2019</b> Authors: Benigno Silva, Julia Sagastegui, Carlos Perez.
11:04 - 11:12	<b>Paper: Workers Happiness In Pandemic Time: Case La Libertad, Peru</b> Authors: Luis Rengifo, Julia Sagastegui, Higinio Wong.
11:12 - 11:20	<b>Paper: Diagnostic Accuracy in Photographic Imaging for Diabetic Ulcer Granulation Using Color Segmentation</b> Authors: Dante Rodriguez, Jose Cabrejo, Santiago Benites.
11:20 – 11:28	<b>Paper: Diseño e implementación De Maquina Selladora De Vasos Automatizada Para Mejorar La Satisfacción Del Cliente En Las Juguerias.</b> Authors: Ryan Abraham León León, Tania Yomira Sifuentes Zabaleta, Geancarlos Iván Prieto Lihon, Adriana Alessandra Lihón Dávila, Stefany Lorena Cornejo Beltran, Paul Huachaca Aguirre.
11:28 – 11:36	<b>Paper: Computer Security Model to Guarantee the Exchange of Academic Information About a Means of Public Connection</b> Authors: Giberto Carrión Barco, Manuel Sánchez-Chero, Consuelo Del Castillo, Freddy Campos.
11:36 - 11:44	<b>Paper: Diseño e Implementación de una Máquina Cortadora de Botellas de Vidrio de Cerveza Automatizada para Disminuir el Impacto Ambiental Mediante la Elaboración Vasos</b> Authors: Ryan Abraham León León, Fátima Esperanza Terry Meza, Omar Sánchez Roldan, Kevin Montufar Jaramillo, Juan Carlos Sánchez, José Ríos Rodriguez, Miguel Angel Aponte de la Cruz.
11:44 – 11:52	<b>Paper: Diseño de Sistema de Control Domótico con Interruptores que Evita el Contacto Físico</b> Authors: Grimaldo Wilfredo Quispe Santivañez, Wilfredo Ramírez Salcedo, Omar Alvarez.

# BTSym'20 Workshop Session

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<b>December 10th, 2020</b>	
<b>10:00 - 12:00</b>	<b>Workshop Session</b> <b>Moderator:</b> Ing. Heyul Chavez
<b>11:52 – 12:00</b>	<b>Paper: Modelo de Lean Service para la Mejora de Productividad en Talleres Automotrices</b> <b>Authors:</b> Grimaldo Wilfredo Quispe Santivañez, Miguel Taipe, Omar Alvarez.

# Plenary Talks - PANEL 4

<b>December 10th, 2020</b>	
<b>15:00 - 18:00</b>	<p><b>Panel discussion 4:</b> Artificial Intelligence and Signal Processing.</p> <p><b>Moderator:</b> Dr. Guillermo Kemper</p>
15:00 – 16:00	<p><b>Lecture: “Reconstrucción de Imágenes de Resonancia Magnética Acelerada Basado em Deep Learning”</b></p> <p><b>Speaker:</b> Ing. Julio Oscanoa, Universidad de Standford</p>
16:00 – 16:20	<p><b>Paper: Unscented Kalman Filter and Gauss-Hermite Kalman Filter for Range-Bearing Target Tracking</b></p> <p>Authors: Gabriel Barragán, Saba Infante, Aracelis Hernández.</p>
16:20 – 16:40	<p><b>Paper: Pothole Identification in Flexible Pavement Using Unmanned Aerial Vehicles (UAVs)</b></p> <p>Authors: Joaquin Humberto Aquino Rocha, Nahúm Gamalier Cayo Chileno, Silvia Natalia Azurduy Rodriguez, Alex Isaac Arrázola Brañez, José Gabriel Terán Camacho, Héctor Luis Sánchez Miranda.</p>
16:40 – 17:00	<p><b>Paper: Terahertz Imaging and Machine Learning in the Classification of Coffee Beans</b></p> <p>Authors: Patricia Uceda, Hideaki Yoshida, Pedro Castillo</p>
17:00 – 17:20	<p><b>Paper: Recognition of Hand-Towards-Face Movements Prototype to Fight COVID-19 Using an IMU Sensor and Deep Learning Model Embedded in a Single-Board Computer</b></p> <p>Author: Alvaro Martín Aspilcueta Narváez.</p>
17:20 – 17:40	<p><b>Paper: Analysis of Deforestation in Ucayali-Peru Using Satellite Imagery from Sentinel-2</b></p> <p>Authors: Diego Velayarce, Manuel Alvarez, Diego Guevara, Victor Murray.</p>
17:40 – 18:00	<p><b>Paper: A Comparative Study of Deep Learning Techniques Aimed at Detection of Arrhythmias from ECG Signals</b></p> <p>Authors: John Gómez, Alberto Quispe, Guillermo Kemper.</p>



# Plenary Talks - PANEL 5

<b>December 11th, 2020</b>	
<b>9:00 - 12:00</b>	<p><b>Panel discussion 5:</b> Information Systems, Networking and Computation</p> <p><b>Moderator:</b> Ing. Wilder Namay</p>
9:00 – 10:00	<p><b>Lecture: “Big Data y Ciencia de Datos Tendencias Tecnologicas Emergentes em la Industria 4.0”</b></p> <p><b>Speaker:</b> Dr. Luis Joyanes, Presidente Fundación I+D de Software Libre (FIDESOL), Granada, España</p>
10:00 – 10:20	<p><b>Paper: Near-Ground Propagation Model in an Archaeological Zone in Cusco for Low Power Wireless Sensor Network</b></p> <p>Authors: Yhon Deyvis Lezama Vilca, Jinmi Gregory Lezama Calvo.</p>
10:20 – 10:40	<p><b>Paper: Arduino-Based Prototype for Measuring Chlorinated Solution Volumes in Water Treatment Systems</b></p> <p>Authors: Marco Alfredo Sánchez Peña, Segundo Dobbertin Sánchez, Rosa López Martos.</p>
10:40 – 11:00	<p><b>Paper: Classification of Daily-Life Grasping Activities sEMG Using Fractal Dimension</b></p> <p>Authors: Elmer Escandon, Christian Flores</p>
11:00 – 11:20	<p><b>Paper: Sentiment Analysis of Song Lyrics Using Clustering</b></p> <p>Authors: Miguel Vásquez-Leon, Willy Ugarte.</p>
11:20 – 11:40	<p><b>Paper: Recycling: A User-Friendly Oriented Mobile and Web Solution for generators and recyclers in the City of Lima</b></p> <p>Authors: Jimmy Armas, Sebastian Manrique, Liz Eulogio.</p>
11:40 – 12:00	<p><b>Paper: Face recognition for criminal identification: An Alert System in Suspects Scenarios</b></p> <p>Authors: Jimmy Armas, Bryan Orellana, Luiggi Álvarez.</p>

# Plenary Talks - PANEL 6

<b>December 11th, 2020</b>	
<b>15:00 - 18:00</b>	<p><b>Panel discussion 6:</b> Health Technologies and Education.</p> <p><b>Moderator:</b> Mg. Christian Del Carpio</p>
15:00 – 16:00	<p><b>Lecture: “Bioinformática, una Herramienta em la Lucha Contra el COVID-19”</b></p> <p><b>Speaker:</b> Ing. Katherine Vallejos</p>
16:00 – 16:20	<p><b>Paper: La Coyuntura del COVID 19 y su Impacto en el Phubbing y el Rendimiento de los Estudiantes</b></p> <p>Authors: Patricia Uceda, Laura Bazan, Rosa Lopez.</p>
16:20 – 16:40	<p><b>Paper: Modelo de Transformación Digital para la Reactivación del Sector Turismo en el Entorno COVID-19 en la Región LAMBAYEQUE</b></p> <p>Authors: Roger Alarcón, Janet Aquino, Jessie Bravo, Nilton German, Carlos Valdivia.</p>
16:40 – 17:00	<p><b>Paper: Estudio de la Depresión, Estrés Académico y Variables Demográficas en el Rendimiento Académico de Estudiantes de una Universidad Pública Mediante Métodos Multivariantes, Lima - Perú</b></p> <p>Authors: Félix Bartolo Gotarate, Olga Solano Dávila.</p>
17:00 – 17:20	<p><b>Paper: An Exploratory Analysis of COVID-19 in South America: Relationship Between Public Health Damages and Economic Impact in the Region</b></p> <p>Authors: Santiago Pozo, Genesis Carrillo, Isidro R. Amaro.</p>
17:20 – 17:40	<p><b>Paper: Health Impact Analysis of COVID-19 in Ecuadorian Provinces: A Statistical Approach</b></p> <p>Authors: M.C. Sabando, Darwin Tallana-Chimarro, Isidro R. Amaro.</p>
17:40 – 18:00	<p><b>Paper: Combined Model Based on Lean Healthcare and BPA to Reduce Waiting Times in Public Health Entities</b></p> <p>Authors: Axel Zevallos-Aquije, Rosa Salas-Castro, Edgardo Carvallo-Munar, Luis Cardenas.</p>

# Official Closing – Event Virtual

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**December 11th, 2020**

**18:30 - 19:00**

**Official Closing**

**Moderator: UPC**