

BTSym'18

Brazilian Technology Symposium

Conference Program

October 23rd, 24th and 25th - 2018
Mackenzie University, Campinas - SP - Brazil

Organization



Universidade Presbiteriana
Mackenzie
Campinas

Sponsored



Welcome do BTSym'2018

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'18 organizing committee invites researchers to attend and submit papers addressing the current research topics of interest. In 2018, the event after three days in duration, on **October 23rd, 24th and 25th, at the Mackenzie University, Campinas-SP**. Proceedings of the event will be published by the **Springer** publisher through the book **Proceedings of the 4th Brazilian Technology Symposium - Emerging Trends and Challenges in Technology**, and will be submitted for indexing by **Scopus**, **WoS** and **EI Compendex database**.

In 2018, the event was sponsored by **Beta Telecommunication**, and we received **147 research works, divided into: 64 articles submitted for option A, 67 articles submitted for option B and 16 posters submitted for option C**.



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General information

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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:

contact.btsym@gmail.com

Oral 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.

Posters

Authors are kindly asked to stay next to their posters during the whole session. Posters not removed by the end of the teardown time will be removed and the organization will not take any responsibility for it.

Lunch and Coffee break

The registration fee does not include lunch. The coffee break is free for all BTSym'18 attendees (not considering Mackenzie listeners).

Useful Telephone Numbers

Ambulance: 192

Police: 190

Fire Brigade: 193

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

Scientific and Academic Committee

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Official Opening - Auditorium

October 23rd, 2018	
14:00 - 15:00	Official Opening - Auditorium
15:00 – 16:00	Opening Speaker Moderator: Eng. MS.c. Kelem Christine Pereira Jordão 
	Lecture – “Cadeias Produtivas 4.0” Speaker: Prof. Paulo Sérgio de Arruda Ignácio, PhD. 
16:00 - 16:10	Official Event Photography
16:10 - 16:30	Coffee-break

Plenary Talks - PANEL 1

October 23rd, 2018

16:30 - 20:00

Panel discussion 1

Industry 4.0 and innovation, scanning innovation models, digital factory, cyber-physical Systems, IoT, IoS, quality 4.0, logistics 4.0 and innovation 4.0.

Moderator:

Profa. Alessandra Cristina Santos Akkari, PhD.



Lecture:

“Paradoxo da Indústria 4.0 no País Tupiniquim”

Speaker: Prof. Francisco Piorino Neto, PhD.



Lecture:

“Democratizando a Indústria 4.0 no Brasil”

Speaker: Claudio Thiago Avila Menezes.



Paper: Analyzing the national scenario with regard to the adoption of enabling technologies of the industry 4.0

Authors: Mirian Bianchessi and Suelene Mammana.

Paper: As aplicações do método AHP na logística: Um breve panorama

Authors: Gabriele Pavani and Massaki Igarashi.

Paper: Proposta de Ambiente Experimental para Avaliação de Sistemas de Detecção de Intrusão

Authors: Lana Letícia Schuster dos Santos, Renato Bobsin Machado and Gustavo dos Santos Vieira.

Paper: Proposta de Método de Detecção de Intrusão utilizando kNN Clusterizado

Authors: Natan Morya Paredes, Renato Bobsin Machado and Gustavo dos Santos Vieira.

Plenary Talks - PANEL 1

October 23rd, 2018

16:30 - 20:00

Panel discussion 1

Industry 4.0 and innovation, scanning innovation models, digital factory, cyber-physical Systems, IoT, IoS, quality 4.0, logistics 4.0 and innovation 4.0.

Moderator:

Profa. Alessandra Cristina Santos Akkari, PhD



Paper: Planning of an integrated stockyard-port system in the iron ore chain using simulation

Authors: Marisa Alves, Paulo Elias Gualandi Filho, José Salles, Helder Rocha, Marta Monteiro da Costa Cruz and Heitor Guzzo de Faria.

Paper: Monitoramento do Consumo de Energia Elétrica Utilizando uma Tomada Inteligente

Authors: Raphael Mello, Rachel Lima and Edgard Silva.

Paper: Sistema Inteligente para Caracterização de Consumo Residencial de Energia Elétrica visando a opção ou não da Tarifa Branca

Authors: Abda Albuquerque, Lahis de Almeida and Edgard Silva.

Plenary Talks - PANEL 2

October 23rd, 2018

16:30 - 20:00

Panel discussion 2

Technologies and Innovations for Teaching and Learning, Active Learning Methodologies, Learning Evaluation Instruments, Social Emotional Abilities and Social Emotional Abilities Evaluation Instruments

Moderator:

Profa. Suelene Silva Mammana, PhD.

Profa. MSc. Mariana Zuliani Theodoro de Lima

Profa. Adriana Volpon Diogo Righetto, PhD.



Lecture: “Stress no ambiente universitário: o papel das competências socio emocionais”

Speaker: Marilda Emmanuel Novaes Lipp, PhD.



Lecture: “Transformação Digital Educacional na prática - exemplos de soluções e plataformas que hoje estão disponíveis globalmente falando e vem transformando a forma de aprender”

Speaker: Sra. Mirian Rodrigues



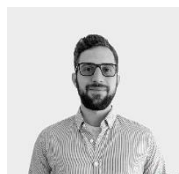
Lecture: “Educação e as tendências tecnológicas”

Speaker: Sr. César Martins



Lecture: “Technology, biometric innovation and education applications”

Speaker: Eng. Igor Avila Amaral de Souza



Plenary Talks - PANEL 2

October 23rd, 2018

16:30 - 20:00

Panel discussion 2

Technologies and Innovations for Teaching and Learning, Active Learning Methodologies, Learning Evaluation Instruments, Social Emotional Abilities and Social Emotional Abilities Evaluation Instruments



Moderator:

Prof. Suelene Silva Mammana, PhD.

Prof. MSc. Mariana Zuliani Theodoro de Lima

Prof. Adriana Volpon Diogo Righetto, PhD.

Paper: Organizational digital transformation: a proposed instrument for digitalization management

Authors: Laís Costa, Luciana Pereira and Alessandra Akkari

Paper: The society under the optics of sustainability

Authors: Fábio Luiz Papaiz Gonçalves, Cibele Roberta Sugahara, Denise Ferreira Lombardo and Cândido Ferreira Silva Filho

Paper: A Comparative Analysis of Privacy Standards in the OECD Guidelines, the E.U., the Canada and Brazil

Authors: Regina Marin

Paper: Human Capital Measurement: A Bibliometric Survey

Authors: Neusa Maria Bastos Fernandes dos Santos, Danilo Nunes, Fernanda Freitas, Igor Munhoz and Adriana Caldana

Paper: Tecnologias da informação e comunicação a serviço de pessoas com deficiência

Authors: Fernando Ernesto Kintschner and Denise Helena Lombardo Ferreira

Paper: O uso de jogos em ensino, treinamento e simulação na engenharia: Um panorama

Authors: Victor Martinelli Chunques and Massaki de Oliveira Igarashi

Plenary Talks - PANEL 3

October 23rd, 2018

16:30 - 20:00

Panel discussion 3

Topics covered: Energy, Petroleum, Gas and Biofuels, Environmental Engineering and Clean Technologies, Food Engineering, Transport Phenomena and Particulate Systems, Materials and Nanotechnology, Biotechnological Processes, Chemical Reactions and Catalysis, Simulation, Process Optimization and Control, Thermodynamics and Separations and Teaching in Chemical and Food Engineering



Moderator:

Profa. Maria Thereza de Moraes Gomes Rosa, PhD.

Lecture: “Planejamento Experimental e Otimização de Processos”

Speaker: Prof. Marcus Bruno Soares Forte, PhD.



Lecture: “A nova politica dos Biocombustíveis - RenovaBio: Impactos e Oportunidades”

Speaker: Daniel Atala, PhD.



Paper: Effect of ionic flow on the electrostatic precipitation of nanoparticles

Authors: Alessandro Estarque de Oliveira and Vádila Giovana Guerra

Paper: Mechanical and Technological behavior of protein-modified mortars

Authors: Leonardo Proenca Mendes de Almeida Godoy, Maria Thereza Rosa and Andre Luis Pissolatti

Plenary Talks - PANEL 3

October 23rd, 2018

16:30 - 20:00

Panel discussion 3

Topics covered: Energy, Petroleum, Gas and Biofuels, Environmental Engineering and Clean Technologies, Food Engineering, Transport Phenomena and Particulate Systems, Materials and Nanotechnology, Biotechnological Processes, Chemical Reactions and Catalysis, Simulation, Process Optimization and Control, Thermodynamics and Separations and Teaching in Chemical and Food Engineering



Moderator:

Profa. Maria Thereza de Moraes Gomes Rosa, PhD.

Paper: Solar Generation Data Acquisition System for Photovoltaic Applications in BAPV

Authors: Josué Marcos de Moura Cardoso; Lia Toledo Moreira Mota, Hermes José Loschi, Gabriel Gomes de Oliveira, Valéria Cristina and Yuzo Iano

Paper: Análise da Sustentabilidade de Empresas de Papel e Celulose do Brasil

Authors: Mirella Padovani and Denise Helena Lombardo Ferreira

Paper: The use of lyophilization as a technological platform in the preservation of a vaccine of the national immunization program

Authors: Sérgio Assumpção and Celso Crespo

Paper: Regional study on spices in São José dos Campos

Authors: Michael Serpa Pereira, Rafael Cunha Ferro and Claudia Maria de Moraes Santos

Paper: Composition and Application of the Içá Ant in Brazilian Culinary

Authors: Vitória Fontes, Claudia Santos and Viviane Henrique

Plenary Talks - PANEL 4

October 23rd, 2018

16:30 - 20:00

Panel discussion 4

Telecommunication, Product Development and Innovation in Mobile Systems, New Products and services, 4G and 5G cellphone mobile systems, Visual Computing, Image and Video Processing, Machine Learning, human-computer interaction using image processing, image processing for real-time control, medical image processing, New Generation of Digital TV, Interactivity in Digital TV, Broadcast and Broadband Systems



Moderator:

Prof. David Bianchini, PhD.

Prof. MSc. Eng. Telmo Cardoso Lustosa.

Lecture: “Questões Éticas em Ciência e Tecnologia na Construção do amanhã”

Speaker: Prof. David Bianchini, PhD.



Paper: C-Band Microstrip Array Antenna for Drone-Based Synthetic Aperture Radar

Authors: Felicio Harley Garcia de Castro, Luciano Prado de Oliveira, Valquíria Lima Bessa de Castro and Hugo Enrique Hernández Figueroa

Paper: A Performance Analysis of Uprating Techniques on a 230 kV Overhead Transmission Line

Authors: Ronaldo Ramos da Silva, Jonatan Esau Mejia Quijada, Ligia Verônica Genesio Pessoa, Juliana Beça and José Maurício Barros Bezerra

Paper: Retrieval of Effective Electromagnetic Properties in Terahertz: from Organics to Metamaterials

Authors: Paloma Pellegrini, Lucas Heitzmann Gabrielli, Livia Martins dos Santos and Rafael Luis Ribessi

Plenary Talks - PANEL 4

October 23rd, 2018

16:30 - 20:00

Panel discussion 4

Telecommunication, Product Development and Innovation in Mobile Systems, New Products and services, 4G and 5G cellphone mobile systems, Visual Computing, Image and Video Processing, Machine Learning, human-computer interaction using image processing, image processing for real-time control, medical image processing, New Generation of Digital TV, Interactivity in Digital TV, Broadcast and Broadband Systems

Moderator:

Prof. David Bianchini, PhD.

Prof. MSc. Eng. Telmo Cardoso Lustosa.



Paper: Image Encryption Algorithm Using Natural Interval Extensions

Authors: Lucas Giovani Nardo Control, Arthur Mendes Lima, Erivelton Geraldo and Janier Arias-Garcia

Paper: Application of the PMBOK to improve the deadline of projects in SMEs engineering consultancies

Authors: Maricielo Hinojosa, Pedro Chavez and Carlos Raymundo

Paper: Energy model based on fluvial rainfall for rural population with torrential rain

Authors: Javier perales and Carlos Raymundo

Paper: An Algorithm for Obtain the QRS Score Based on ECG Parameters Detection and Neural Networks for Confounder Classification

Authors: Julio César Cabanillas UGaz, Gustavo Tello, Brandon Mercado and Guillermo Kemper

Plenary Talks - PANEL 4

October 23rd, 2018

16:30 - 20:00

Panel discussion 4

Telecommunication, Product Development and Innovation in Mobile Systems, New Products and services, 4G and 5G cellphone mobile systems, Visual Computing, Image and Video Processing, Machine Learning, human-computer interaction using image processing, image processing for real-time control, medical image processing, New Generation of Digital TV, Interactivity in Digital TV, Broadcast and Broadband Systems



Moderator:

Prof. David Bianchini, PhD.

Prof. MSc. Eng. Telmo Cardoso Lustosa.

Paper: Performance Measurements of Sobel Edge Detection Implemented in an FPGA Architecture and Software

Authors: Tercio Naoki Sato, Gabriel Pedro Krupa and Leonardo Breseghello Zoccal

Paper: Geometric characterization of Yagi antenna using digital image processing

Authors: Heyul Chavez, Christian del Carpio, Luciano Prado, Guillermo Kemper and Hugo Hernadez

Paper: Design of a Plant for Reduction and Reuse of Construction and Demolition Waste (RCD), in South Lima based on Reverse Logistics

Authors: Karen Cruz, Pierina Calderón, Victor Nuñez and Carlos Raymundo

Paper: Methodology for reducing staff turnover in service companies based on Employer Branding and Talent Management

Authors: Amy Espinoza, Estefany Rojas, Jose Rojas and Carlos Raymundo

Plenary Talks - PANEL 5

October 24th, 2018

14:00 - 16:45	Panel discussion 5 Construction automation and Robotics in Civil Engineering, Construction 4.0, Technologies in Design and BIM - Building Information Model Moderator: Prof. MSc. João Carlos Gabriel 
	Lecture: “Utilização de robôs para construção de casas” Speaker: Prof. MSc. João Carlos Gabriel 
	Lecture: “Geolocal” Speaker: Prof. Sergio Vicente Denser Pamboukian, PhD. 
	Paper: BAMBOO: A Great Ally of the Civil Construction Authors: Caroline Mayumi Yamaguchi, Márcia Milena Pivatto Serra and Adriana Volpon Diogo Righetto
	Paper: Investigação e Aperfeiçoamento de um Sistema de Impressão 3D e Fresagem Intercambiável. Authors: João Pedro Santos, Rômulo Delmondes, Marcelo Araujo and Vinicius Ferreira
	Paper: Medidor residencial não-invasivo de baixo custo para análise do consumo de energia elétrica Authors: Valéria Cristina dos Santos Silva, Lia Toledo Moreira Mota, Lorenzo Campos Coiado, Rômulo Gustavo Eugênio dos Anjos, Vitor Chaves de Oliveira, Josué Cardoso and Daniel Braga Barros
	Paper: Comunicação Remota entre Veículo Mini-Baja e box utilizando XBee e LabView Authors: Alex Carvalho, Lahis de Almeida and Edgard Silva
	Paper: Automação e robótica na construção civil Authors: João Carlos Gabriel, Marcos Almeida do Amaral and Gustavo Maciel de Campos

Scientifical Poster Section – Main space

October 24th, 2018

16:00 - 17:00	Paper: A patent study of emerging pharmaceutical markets: the case of BRICS countries Authors: Gabriel Guerra da Silva Freire, Karina Fernandes de Oliveira and Alessandra Cristina Santos Akkari
	Paper: A comparative study between methodologies based on the Hough Transform and Watershed Transform on the blood cell count Authors: Ana Carolina Borges Monteiro, Yuzo Iano, Reinaldo Padilha França, Rangel Arthur and Vânia Vieira Estrela
	Paper: Methodology of High Accuracy, Sensitivity and Specificity in the Counts of Erythrocytes and Leukocytes in Blood Smear Images Authors: Ana Carolina Borges Monteiro, Yuzo Iano, Reinaldo Padilha França and Rangel Arthur
	Paper: Toxoplasma Gondii: From Discovery to Advances in Image Processing Authors: Ana Carolina Borges Monteiro, Yuzo Iano and Reinaldo Padilha França
	Paper: Development of A Kernel: A Deeper Look At The Architecture of An Operating System Authors: Reinaldo Padilha, Manoel Peluso, Ana Carolina Borges Monteiro and Yuzo Iano
	Paper: Adaptation of the Raise Borer elaboration method to a short ore pass by evaluating its efficiency Authors: Andree Rios, Juan Jara and Carlos Raymundo
	Paper: Development of a Hybrid Heating System based on Geothermal Photovoltaic Energy to Reduce the Impact of Frosts on Inhabitants of Rural Areas in the Ring of Fire, Southern Peru Authors: Diana Chavarria, Rubi Ramos and Carlos Raymundo
	Paper: Improvement Proposal for the Logistics Process of Importing SMEs in Peru through Lean, Inventories and Change Management Authors: Izon Riquero, Christian Hilario, Pedro Chavez and Carlos Raymundo

Scientifical Poster Section – Main space

October 24th, 2018

16:00 - 17:00

Paper: Methodology for the digitalization of advertisement at the point of sale for gross margin increase in the traditional retail trade

Authors: Luis Cheng-Fong, Ana Cruzalegui, Jose Rojas and Carlos Raymundo

Paper: Occupational health and safety maturity model to manage surface mining operations

Authors: Vladimir Flores, Jordana Rodríguez, Juan Jara and Carlos Raymundo

Paper: Optimized ventilation model to improve operations in polymetallic mines in Peru

Authors: Vladimir Flores, Luis Arauzo and Carlos Raymundo

Paper: Reuse method for deposits of polymetallic tailings in a state of abandonment through the application of Mineral Flotation

Authors: Anthony Anchiraico, Jose Bazo, Vidal Aramburu and Carlos Raymundo

Paper: Six Sigma model optimized for reducing downtime in an open-pit mine

Authors: Josemaria Gargate, Sian A. Fung, Juan Jara and Carlos Raymundo

Paper: Cross-Platform Enterprise Application Development Framework for Large Screen Surfaces

Authors: Miguel Cuadros, Alonso De la Fuente, Alfredo Barrientos and Rosario Villalta

Paper: Online Control of a Robotic Manipulator by a Brain Computer Interface based on SSVEP

Authors: Guilherme Vargas, Romeu Takeda, Harlei Leite, Thiago Costa, Romis Attux and Sarah Carvalho

Paper: Improvement of chemical processes for the analysis of mineral concentrates using lean six sigma

Authors: Alejandro Arone, Miguel Pariona, Angel Hurtado, Victor Chichizola and Jose Alvarez Merino

Scientifical Poster Section – Main space

October 24th, 2018

16:00 - 17:00

Paper: SMART GOL TRAINER: Lançadora de Bolas Automática para treinamento inteligente de jogadores de futebol
Authors: Marcelo Montedori, Vitor Chaves de Oliveira and Marcius Fabius Henrique Carvalho

Paper: Fingerspelling Recognition using Histogram of Oriented Point Cloud Vectors from Depth Data
Authors: José Elías Yauri Vidalón

Paper: Viability Analysis Method for the Exploitation of Mineral Ore Resources Based on the Prices of Minerals
Authors: Pamela Curi, Darwin Gonzales and Guillermo Diaz and Carlos Raymundo

Paper: Design of Openings to Mitigate Rock Bursts During Deep Mining Works in the Peruvian Central Andes
Authors: Edinson Aponte, Luis Arauzo and Carlos Raymundo

Paper: Technological Model for the Exchange of Goods in the Peruvian Agricultural Business Sector using the Smart Contracts and Blockchain
Authors: Christopher Cortez-Zaga, Víctor Casas Iamacponcca and Pedro Shiguihara

Paper: Technological Model of Facial Recognition for the Identification of Patients in the Health Sector
Authors: Diego La Madrid-Arroyo, Martín Barriga-Rivera and Pedro Shiguihara

Paper: An algorithm for static hand gesture recognition for Peruvian Sign Language using Digital Image Processing and Deep Learning
Authors: Cristian Lazo, Zaid Sanchez and Christian del Carpio

Paper: Predictive Model for the evaluation of credit risk in banking entities based on machine learning
Authors: Jimmy Armas and Brenda Haro

Coffee - October 24th, 2018

October 24th, 2018	
16:45 - 17:15	Coffee-break

Plenary Talks - PANEL 6

October 24th, 2018

17:00 - 20:00

Panel discussion 6

Product Development and Innovation; Sustainable Development and Environmental Management; Economic engineering; Organizational Engineering; Factory Project; Lean manufacturing; Integrated management system; Quality; Metrology; Manufacturing Automation; And Strategic Management



Moderator: Prof. MSc. Eng. Luiz Vicente Figueira de Mello

Lecture: “Urban mobility: technology as a tool to improve people's quality of life”

Speaker: Mr. Carlos Paiva.



Lecture: “Analysis and perspectives on the traffic accidents: how investigation can bring solutions to urban mobility”

Speaker: Mr. Lino Belli Junior.



Paper: Circulino: An IoT solution applied in the university transport service

Authors: Ricardo Barbosa, Rafael Sousa, Fabrício Oliveira, Henrique Oliveira, Paulo Luz and Leandro Maneira

Paper: Analysis to Reduction of Transit Accidents In the City of Campinas-SP by Introduction of Automatic Emergency Braking In Light Vehicles

Authors: Luiz Vicente Mello Filho, Caio De Donato Paez and Marcos Almeida do Amaral

Paper: Estudo de Caso do Tráfego Urbano da Cidade de Dourados, Mato Grosso Do Sul

Authors: Luiz Vicente Mello Filho and Gabriel Martinelli Teixeira

Paper: Indústria 4.0 Dimensionamentos

Authors: Janaína Cristina de Almeida Silva and Rosivaldo Ferrarezi

Plenary Talks - PANEL 7

October 24th, 2018

14:00 - 20:00	Panel discussion 7 Concepts of Cyberphysicallab_Huge Networks, Cyberphysicallab_Electronics for Air and Space and Cyberphysicallab_Electronics for Medicine. Moderator: Prof. Osamu Saotome, PhD.	
	Palestra: “Linhas de ação em pesquisas do cyberphysicallab” Speaker: Prof. Osamu Saotome, PhD.	
	Lecture: Near-Optimum Gram-Schmidt Conjugate Direction Signal Detection for Massive MIMO Authos: Juan Minango and Celso de Almeida	
	Paper: SpaceWire Receiver: Synchronization for different clock domains Authos: Alexsander Deucher, Angela Alves dos Santos, Antonio da Costa Telles and Saulo Finco	
	Paper: Desenvolvimento de uma Plataforma de Teste de “hardware-in-the-loop” para Aeronaves não Tripuladas em Missões Cooperativas Authos: Thiago Araujo and L. C. S. Goes	
	Paper: Efficacy Comparison of Satellite Attitude Control Systems Using a Spherical Air Bearing Authos: Romulo Fernandes Costa, Osamu Saotome and Elvira Rafikova	
	Paper: Techniques of Conversion Gain Improvement for CMOS Active Mixers Authos: Phillipe Menezes, Eduardo Lima and Julián Herrera	
	Paper: Realização de Detectores de Fase em Dispositivo Lógico Programável (FPGA) Authos: Alexandre Ribas and Osamu Saotome	

Plenary Talks - PANEL 7

October 24th, 2018

14:00 - 20:00

Panel discussion 7

**Concepts of Cyberphysicallab_Huge Networks,
Cyberphysicallab_Electronics for Air and Space
and Cyberphysicallab_Electronics for Medicine.**



Moderator: Prof. Osamu Saotome, PhD.

**Paper: Avaliação de Metodologias para Análise da Estabilidade
Angular a Pequenos Sinais**

Authos: Zulmar Machado Jr and Gabriel Eng

**Paper: Estudo de um Sistema de Navegação Aérea Baseada no
Nível de Hipóxia do Piloto**

Authos: Raffael Mattos and Rogério Quirino

**Paper: Estudo de Redes Neurais Aplicadas a Estimativa das
Perdas de Transformadores Trifásicos de
Distribuição**

Authos: Daniel Silva, Daniel Rio, Wheidma Melo, Israel Torné and
Lennon Nascimento.

Paper: Memory mitigation techniques in space environments

Authos: Alexsander Deucher, Angela Alves dos Santos, Antonio
Carlos da Costa Telles and Saulo Finco.

**Paper: 10-Steps Method to Extract the I-V Curve of Resonant
Tunneling Diode Based on Experimental Data Preserving
Physical Parameters**

Authos: Mateus Faria, Rafael Nobrega and Ulysses Duarte.

**Paper: Influence of positive end-expiratory pressure on regional
ventilation assessed by Electrical Impedance Tomography on
healthy lungs**

Authos: Juliana Neves Chaves and Alcendino Cândido
Jardim Neto.

**Paper: Análise da Qualidade de Energia do Laboratório de
Eletrônica da Universidade Federal de Tocantins Usando
Sistemas Imunológicos Artificiais**

Authos: Jadiel Caparrós da Silva, Luiz Felipe Rocha Moreira and
Stefani Carolline Leal de Freitas

Plenary Talks - PANEL 7

October 24th, 2018

14:00 - 20:00

Panel discussion 7

**Concepts of Cyberphysicallab_Huge Networks,
Cyberphysicallab_Electronics for Air and Space
and Cyberphysicallab_Electronics for Medicine.**



Moderator: Prof. Osamu Saitome, PhD.

**Paper: An assessment of a Square-Wave Series Voltage
Compensator increasing Low Voltage Ride Through capability
on industrial electronic loads**

Authos: Marcos Paulo Gomes, Igor Amariz Pires, Alysson Augusto
Pereira Machado, Patrícia Souza Carletto, José Ronaldo Silveira
Junior and Braz de Jesus Cardoso Filho

**Paper: Assessment of operation performance of power
converters with low frequency PWM drive issues and field
weakening**

Authos: Marcos Paulo Brito Gomes, Alex-Sander Amável Luiz and
Marcelo Martins Stopa

**Paper: Sistema de inspeção e controle para experimentos em
robótica espacial**

Authos: Glaydson Luiz B Lima, Osamu Saitome and Ijar M. da
Fonseca

Plenary Talks - PANEL 8

October 24th, 2018

14:00 - 20:00

Panel discussion 8
Smart Cities, IoT, Algorithms and Smart Processes, Sustainable Mobility, Smart Urban Mobility, Smart Parking, Smart Governance, Smart Mobility, Smart Utilities, Smart Health, Smart Buildings, Smart Grid and Smart Environment



Moderator: Prof. MSc. Telmo Cardoso Lustosa.

Lecture: “Uma experiência em Smart Campus”

Speaker: MSc. Luis Fernando Gonzalez.



Lecture: “Smart Cities na Cidade de Campinas”

Speaker: Carlos Alberto dos Santos Passos.



Paper: Avaliação da Viabilidade para Geração Fotovoltaica no Mato Grosso do Sul

Authors: Vilas-Boas, Eduardo S. Leme and Sandro P. L.

Paper: Algorithm for the calculation of power flow for unbalanced distribution grids through the backward/forward sweep method

Authors: Lucas Fritzen Venturini, Guilherme Manoel da Silva, Philippe Pauletti and Zedequias Machado Alves

Paper: Data Science supporting Smart City management: a predictive analysis perspective

Authors: Giovanni Moura de Holanda, Cristina Y. K. Obata Adorni and Jorge Moreira de Souza

Paper: Hydrothermal dispatch considering natural gas restrictions

Authors: Jean Rodrigo dos Santos and Juan Carlos Galvis Manso

Paper: Presence sensor for people detection and reduction of pedestrian waiting time in traffic light

Authors: Rosana Cibely B. Rego and Rodrigo Semente

Plenary Talks - PANEL 8

October 24th, 2018

14:00 - 20:00

Panel discussion 8
Smart Cities, IoT, Algorithms and Smart Processes,
Sustainable Mobility, Smart Urban Mobility,
Smart Parking, Smart Governance, Smart Mobility,
Smart Utilities, Smart Health, Smart Buildings,
Smart Grid and Smart Environment



Moderator: Prof. MSc. Telmo Cardoso Lustosa.

Paper: Unmanaged Data Crawler for Social Networks

Authors: José Luís Vieira Sobrinho and Prof. Dr. Cássio Dener Noronha Vinhal

Paper: Betterment Proposal to Multipath Fading Channels Potential to MIMO Systems

Authors: Reinaldo Padilha, Yuzo Iano, Ana Carolina, Borges Monteiro, Rangel Arthur and Vânia Vieira Estrela

Paper: Sistema de Monitoramento Remoto de Parâmetros Fisiológicos para Aplicação em Home Care

Authors: Marcus Vinicius Franco, Thiago Terra, Theu Castro, Isadora Souto, Daniela Suzuki and Jefferson L B Marques

Paper: A Hybrid Multiframe Superresolution Framework Using R-ELM Neural Networks and Maximum a Posteriori Estimation

Authors: Thais Pedruzzi do Nascimento and Evandro Ottoni Teatini Salles

Paper: Wheelchair Simulator Controlled by a Brain-Computer Interface based on Steady State Visually Evoked Potentials

Authors: Maycon Miranda, Guilherme Vargas, Sarah Carvalho Leite, Dalton Arantes and Harlei Leite

Paper: Smart Cities and Data generation - Dealing with the High Information Volume in Urban Spaces

Authors: Igor Pereira Martins and Ricardo Mendes Junior

Paper: A Load Balancing Method for KDN-based Data Center using Artificial Neural Networks

Authors: Alex Midwar Rodriguez Ruelas

Plenary Talks - PANEL 9

October 24th, 2018

14:00 - 20:00

Panel discussion 9
Environmental Education, Selective Collection, Recycling of Electronic Materials and University Extension Projects with presentation of papers, expanded abstract, oral communication, round table and / or lectures will be addressed.



Moderator:
Profa. Ana Cláudia Seixas, PhD.

Lecture: “Ensino de engenharia diante dos novos Desafios na Formação do Egresso -Visão de mercado 2025”
Speaker: Prof. MSc. Sergio Roberto Pereira.



Round Table: Os Desafios do Ensino de Engenharia

Speaker: Prof. Rogério Eduardo Rodrigues Basi, PhD
Pró-Reitor de Extensão e Assuntos Comunitários da PUC Campinas.



Speaker: Profa. Vania Viera Estrela, PhD.
Universidade Federal Fluminense.



Speaker: Prof. MSc. Sergio Roberto Pereira.
Director of the Center for Exact, Environment and Technology and Sciences – PUC Campinas.



Speaker: Esp. Adriana Camargo Veiga
CPqD, Campinas-SP.



Speaker: João Ulysses Laudissi
Director of SENAI



Plenary Talks - PANEL 9

October 24th, 2018

14:00 - 20:00

Panel discussion 9

Environmental Education, Selective Collection, Recycling of Electronic Materials and University Extension Projects with presentation of papers, expanded abstract, oral communication, round table and / or lectures will be addressed.



Moderator:

Profa. Ana Cláudia Seixas, PhD.

Paper: Project Knowledge Transfer: a study with Brazilian Project Managers

Authors: Neusa Maria Bastos Fernandes dos Santos, Nelson José Rosamilha , Alessandra Cristina Santos Akkari, Fernando de Almeida and Renan Riedel

Paper: Trabalhos de Extensão e suas contribuições nos desafios da conscientização da construção sustentável

Authors: Aparecido Fujimoto, Stefany Oliveira, Nayara Lima, Gabriel Carvalho, Rodolpho de Oliani Tobar and Henrique Pinto

Paper: Metodologias ativas no ensino superior: caso de extensão universitária

Authors: Amilton Lamas and Vera Lucia dos Santos Placido

Paper: Diagnóstico do Gerenciamento de Resíduos Sólidos Urbanos na Cidade de Campinas - SP Panorama geral acerca dos RSU na cidade de Campinas – SP

Authors: Ana Cláudia de Seixas and Giovanna Ramos Maccari

Paper: Sensibilização Ambiental Voltada à Gestão Integrada de Resíduos Eletrônicos em Escolas de Campinas - SP O desafio dos resíduos eletrônicos nos dias de hoje

Authors: Ana Cláudia de Seixas, Giovanna Ramos Maccari, Jaqueline Silva de Oliveira and Julia de Oliveira Victor

Plenary Talks - PANEL 9

October 24th, 2018

14:00 - 20:00

Panel discussion 9

Environmental Education, Selective Collection, Recycling of Electronic Materials and University Extension Projects with presentation of papers, expanded abstract, oral communication, round table and / or lectures will be addressed.



Moderator:

Profa. Ana Cláudia Seixas, PhD.

Paper: Considerações sobre os Ganhos Acadêmico, Profissional e Social nos Alunos Protagonistas nos Trabalhos da Extensão Universitária

Authors: Ana Cláudia de Seixas, Giovanna Ramos Maccari, Francisco Salles Cintra Gomes and Maria Eduarda Mulotto Ruiz

Paper: Redução do Volume de um Resíduo Utilizando Energia Fotovoltaica

Authors: Beatriz Menossi Ribeiro, Gabriela Maria Caixeta Campioto, Carolina Orrú Lucatelli and Paulo Roberto Alves Pereira

Paper: Educação Ambiental e Sustentabilidade: Conceitos de Construções Verdes atrelados à prática de Extensão Universitária

Authors: Nayara Lima, Aparecido Fujimoto, Stefany Oliveira, Andressa Pinto, Henrique Pinto and Gabriel Carvalho.

Paper: A Extensão Universitária como protagonista da disseminação da sustentabilidade na construção civil

Authors: Stefany Oliveira, Nayara Lima, Aparecido Fujimoto, Rodolpho de Oliani Tobar, Andressa Pinto and André Pinto

Scientifical Poster Section – Main space

October 25th, 2018

14:00 – 15:00	Paper: Análise de viabilidade técnico-econômica de bombas solares em áreas não cobertas pela rede elétrica Author: Ana Beatriz Brito Nepomuceno dos Reis, Marcelo Maia and Teixeira, K. C.
	Paper: Sistema Embarcado para Aplicação em Monitoramento e Controle de Temperatura e Umidade Author: Eduardo Rodrigo Thiesen, Vlademir Oliveira and Douglas Nascimento.
	Paper: Proposta de recomendação de migração de um componente do sistema tradicional para computação em nuvem Author: Rafael Nardi Ribeiro and Prof. Dr.Alexandre Barbieri
	Paper: Tendências em regimes hidroclimáticos nas regiões Norte e Nordeste do Brasil Author: Gabriela Jardim Costa, Denise Helena Lombardo Ferreira and Anna Badinger
	Paper: Esquema conceitual para gerenciamento da manutenção no contexto das tecnologias híbridas de manufatura Author: Daniel R. Tasé Velázquez, Carlos Roberto Camello Lima, André Luís Helleno, Lorena Hernández Mastrapa, Everton Dias de Oliveira and Caroline Kuhl Gennaro
	Paper: Imersão da Extensão Universitária à Habitação Sustentável e o Conforto Ambiental Author: Gabriel Carvalho, André Pinto, Andressa Pinto, Aparecido Fujimoto, Rodolpho de Oliani Tobar and Stefany Oliveira
	Paper: Swarm Strategy and Color Probability Density for Visual Tracking Author: Edwards Castro, Evandro Ottoni Teatini Salles and Patrick Ciarelli
	Paper: Buscas de inovações na construção civil: esforços contínuos para criatividades na sustentabilidade ambiental Author: Rodolpho de Oliani Tobar, Gabriel Carvalho, Aparecido Fujimoto, Henrique Pinto and Nayara Lima
	Paper: Energy Disaggregation via Data Mining Author: Pierre Dantas, Waldir Sabino and Maryana Batalha
	Paper: Mapeamento sistemático: Automação do processo judicial brasileiro Author: Gabriel Alves dos Santos and Ana Carolina Gondim Inocêncio

Scientifical Poster Section – Main space

October 25th, 2018

14:00 – 15:00

Paper: Como Oficinas de Educação Ambiental Influenciam Para a Mudança de Comportamento e Visão Sobre Resíduos Sólidos de Alunos do Ensino Fundamental na Cidade de Campinas-SP Oficinas socioeducativas buscando conscientização

Author: Ana Cláudia de Seixas, Giovanna Ramos Maccari, Jaqueline Silva de Oliveira and Julia de Oliveira Victor

Paper: Redes Neurais Artificiais Aplicadas à Previsão de Demanda de Energia Elétrica no Horizonte de Curtíssimo Prazo para Cidades Inteligentes

Author: Leonel Laboissiere and Ricardo Fernandes

Paper: Artificial Intelligence and Autonomous Weapons: The Pandora's Box of our days?

Author: Marcelo Chiavassa, Bianca Scarano, Heloisa Souza and Viviane Curvello

Paper: Comparativo de Desempenho de um Conversor Bidirecional Monofásico Conectado a Rede Usando Controlador PI e Fuzzy

Author: Reginey Barbosa, Durval Souza and André Tahim

Paper: Proposta para Extração de Atributos de Pacotes de Redes

Author: Jean Douglas Gomes Valencio, Renato Bobsin Machado and Gustavo dos Santos Vieira

Paper: Efficient Optimization of Photocatalytic Process for Azo Dyes

Author: Gustavo Duran Iga, André Luis de Castro Peixoto and Ademir Geraldo Cavallari Costalonga

Paper: Stress-Strain Analysis and Optimization of a Parking Duplicator Hanging Grid

Author: Lucas Amaral Costa and Alessandro Corrêa Victorino

Paper: Prototype of a Single Phase Electric Power Meter and Biphasic for Residential Consumption Monitoring using an ESP32

Author: Rachel Lima and Edgard Silva

Paper: Técnicas de Análise de Dados de uma Linha de Produção Monitorados via IoT

Author: Robson Quero, Marcos Fabricio and Frank Behrens

Paper: Physico-chemical analysis of biodiesel obtained from blends of virgin castor oil and biodiesel obtained from mixture of oil

Authors: Daniela Helena Pelegrine Guimarães; Lucas Romano de Aguirre, Bruna Caroline Gonçalves and Maria Thereza de Moraes Gomes Rosa

Scientifical Poster Section – Main space

October 25th, 2018

14:00 – 15:00	Paper: Sensorial and rheological parameters of cured cheese produced with goat milk Author: Daniela Helena Pelegrine Guimarães; Lucas Romano de Aguirre, Bruna Caroline Gonçalves and Maria Thereza de Moraes Gomes Rosa
	Paper: Viability of the uses of effluent for cultivation of <i>Chlorella vulgaris</i> in order to integrate the generation of biofuels with the treatment of water Author: Daniela Helena Pelegrine Guimarães; Lucas Romano de Aguirre, Bruna Caroline Gonçalves and Maria Thereza de Moraes Gomes Rosa
	Paper: Técnicas de Processamento Digital de Imagem (High-Dynamic Range) Authors: Daniel Rodrigues Ferraz Izario, Yuzo Iano, Bruno Rodrigues Ferraz Izario and Carlos Nazareth Motta Marins
	Paper: Modeling a Photovoltaic Panel with the Algorithm Incremental Conductance to Maximize Efficiency using Matlab / Simulink R Software Authors: Domingos Teixeira da Silva Neto, Amélia Moreira dos Santos, Jessica Fernandes Alves, Fernando Ribeiro Arduini and Polyane Alves Santos
	Poster: Anti-Animal Trampling System Authors: Luma Palheta, João Bentes, Micila Medeiros and Marcus Melo.
	Poster: Photovoltaic Trees Network for Electric Power Generation and Carbon Sequestration Authors: Everton Dias de Oliveira, Regina Marcia Longo, Evelyn Dias de Oliveira and Desiree Baldin Damame
	Poster: Smart Cities: Review and Bibliometric Study Authors: Everton Dias de Oliveira, Caroline Kuhl Gennaro, Daniel R. Tasé Velázquez, Lorena Hernández Mastrapa, Desiree Baldin Damame, Ângela Alves Dos Santos and Mariana Dias de Oliveira
	Poster: Experimental environment for convection heat transfer teaching in finned systems Authors: Luana Spósito Valamede, Marcio Costa do Nascimento, Felipe Silveira Stopiglia, Daniela Helena Pelegrine Guimarães and Maria Thereza de Moraes Gomes Rosa

Scientifical Poster Section – Main space

October 25th, 2018

14:00 – 15:00	Poster: Active learning methodologies to develop cognitive skills in Engineering Courses Authors: Souza, G. R. , Yamaguchi, C. M. , Escoqui, P. , Fernandes, A. C. , A. N , Righetto, A. V. D., Lima, M. Z. T. de, Akkari, A. C. S. and Mammana, S. S.
	Poster: PlantScan Authors: BORDIN, Andressa; MIRANDA, Felipe A. M.; MORAES, Ingrid H. C. and TOQUERO, Ana J. P.
	Poster: Desenvolvimento de uma Interface de Aquisição de Dados para Biossensores Author: Guilherme Matsuo and Frank Behrens
	Poster: Instrument for the evaluation of socioemocional skills in higher education Authors: Yamaguchi, C. M. , Souza, G. R. , Escoqui, P. Fernandes, A. N , Righetto, A. V. D., Lima, M. Z. T. de, Akkari, A. C. S. and Mammana, S. S.
	Poster: Forensic Data Mining for Email Author Identification with R Language Author: Sofia Marshallowitz Apuzzo
	Poster: Análise da educação no trânsito como instrumento de transformações sociais Authors: FLORENTINO, A. F., SOUZA, G. R., PAVANI, G. F., PRADO, J. P. S. E SILVA, M. B. and MELLO FILHO, L. V. F.
	Poster: Panorama sobre a Evolução do Sistema de Iluminação Pública: Revisão de Literatura Authors: Everton Dias de Oliveira and Aparecido dos Reis Coutinho
	Poster: Panorama das tecnologias na utilização da mobilidade urbana em veículos leves e pesados Author: IANO Y. SIEGLE A. R. and MELLO FILHO L. V. F.
	Poster: Um jogo para ensinar química e praticar linguagem de programação Authors: Ana Carolina Pernassi, Daniela Hurtado, Gabriele Ribeiro, Luiza Polatto and Massaki de Oliveira Igarashi
	Poster: Detection and Segmentation of real-time vocal anomalies Authors: Haroldo G. B. Filho, Marcel P. Jackowski and Roberto Hirata
	Poster: Segmentation in image processing based on deep learning in the vocal 'tract' Authors: Haroldo G. B. Filho, Marcel P. Jackowski and Roberto Hirata

Scientifical Poster Section – Main space

October 25th, 2018

14:00 – 15:00	Paper: A Solution for Dubins Path Problem with Uncertainties Using World Cup Optimization and Chebyshev Polynomials Authos: Navid Razmjooy, Mehdi Ramezani and Vania V. Estrela
	Paper: Rheological Analysis of Blood Flow in the Bifurcation of Carotid Artery with OpenFoam Authos: Marcus Vinicius Paes Carvalho, Raquel Jahara Lobosco and Guilherme Barbosa Lopes Júnior
	Paper: Comunicação Wireless Transmissão e recepção de sinal sonoro utilizando os módulos 433RF e Arduino Uno Authos: Alexandre Pereira and Dayana Vieira
	Paper: Brain-Computer Interface: Implementation and Study of Algorithms for Processing and Classification of EEG signals Authos: Dayana Vieira and Cleison Silva
	Paper: Sistema Hidropônico Inteligente Baseado em um Sistema MIMO Nebuloso Authos: kayon vinicius lima Lopes
	Paper: Stability Analysis of the Interval Systems based on Linear Matrix Inequalities Authos: Navid Razmjooy, Mehdi Ramezani, Vania V. Estrela, Hermes José Loschi and Douglas Aguiar do Nascimento
	Paper: A Model For Medical Staff Idleness Minimization Authos: Carlos E. V. Marinho, Vania V. Estrela, Hermes J. Losch, Ana Carolina Borges Monteiro, Reinaldo Padilha, Douglas Aguiar do Nascimento, Jude Hemanth, Albany E. Herrmann and Navid Razmjooy

Official Closing - Auditorium

October 25th, 2018	
15:00 – 16:00	Guided tour through the facilities of the University Mackenzie
16:00 – 16:30	Coffee-break
17:00 - 18:00	Official Closing Moderator: Eng. MS.c. Kelem Christine Pereira Jordão 
	Lecture – “Teaching Innovation and Entrepreneurship” Speaker: Prof. Hermes Aguiar Magalhães, PhD. 
18:00 – 18:30	Awards section of the best posters, <u>OPTION C</u>
18:30 – 19:00	Official Closing “Final Confraternization”

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