

BTSym'19

Brazilian Technology Symposium

Conference Program

October 22rd, 23th and 24th - 2019
Mackenzie University, Campinas - SP - Brazil

Organization



Sponsored



Welcome to the BTSym'2019

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'19 organizing committee invites researchers to attend and submit papers addressing the current research topics of interest. In 2019, the event after three days in duration, on **October 22rd, 23th and 24th, at the Mackenzie University, Campinas-SP**. Proceedings of the event will be published by the **Springer** publisher through the book **Proceedings of the 5th Brazilian Technology Symposium - Emerging Trends and Challenges in Technology**, and will be submitted for indexing by **Scopus**, **WoS** and **El Compendex database**.

In 2019, 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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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'19 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.

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Official Opening - Auditorium

October 22rd, 2019	
14:00 - 15:00	Official Opening – Auditorium
15:00 – 16:00	Opening Speaker Moderator: Eng. MS.c. Kelem Christine Pereira Jordão 
	Lecture – “Startups” Speaker: Eng. Igor Santiago 
16:00 - 16:10	Official Event Photography
16:10 - 16:30	Coffee-break

Plenary Talks - PANEL 1

October 22rd, 2019

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: “The main technologies of Industry 4.0 and IIoT applied in the areas of Industrial Process Automation will be presented. What are the impacts and knowledge requirements for professionals” Speaker: MSc. Marcílio Antônio Viana Pongitori. 
	Paper: A patent study of emerging pharmaceutical markets: the case of BRICS countries Authors: Gabriel Freire, Karina Oliveira, Igor Munhoz, Alessandra Akkari.
	Paper: The perspectives of integration between Lean Manufacturing and Industry 4.0 Authors: Luana Valamede, Alessandra Akkari.
	Paper: Agile Project Implementation Methodology for Introducing New Technologies in Industry 4.0 Authors: William Franco, Frank Behrens.
	Paper: Aggregating value in Asset Management: an approach for electric generation and transmission utility Authors: Giovanni Holanda, Cristina Adorni, Vancler Marsola, Fernando Parreiras, Tiago Saraiva, Oswaldo Godoy Neto, Celso Azevedo.
	Paper: Knowledge management in Brazil, in a global company, under the influence of industry 4.0 Authors: Alexandre Gomes, Mariana Munis.

Plenary Talks - PANEL 1

October 22rd, 2019

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: Development of a robotic system with movements based on computer vision detection Authors: Gabriel Souza, Bruno Lima, Rodrigo Santos.	
	Paper: TRUMIT - TRUST MANAGER FOR IoT Authors: Nelson Bellincanta Filho.	

Plenary Talks - PANEL 2

October 22rd, 2019

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:

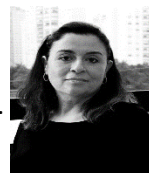
Prof. Suelene Silva Mammana, PhD.

Prof. Adriana Volpon Diogo Righetto, PhD.

Prof. Msc. Mariana Zuliani Theodoro de Lima.

Lecture: “Mineração de dados aplicados a educação (Education Data Mining)”

Speaker: Prof. Josiane Maria de Freitas Tonelotto, PhD.



Paper: Education Technologies in Architecture and Urbanism: The potential of virtual and augmented reality

Authors: Roberta Squaiella, Roberto Righi, Maria Victoria Marchelli.

Paper: Navigation Apps Influence on Traffic

Authors: João Pedro Roque, Suelene Mammana.

Paper: BLIND - Aplicativo para deficientes visuais de leitura de cédulas de real

Authors: Leonardo Maffei, KIntschner Fernando, Denise Ferreira, Rodrigues Daniele, Palandrani Júnior Vanderlei.

Plenary Talks - PANEL 2

October 22rd, 2019

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. Adriana Volpon Diogo Righetto, PhD.

Profa. Msc. Mariana Zuliani Theodoro de Lima.

Paper: The Neglect of the Cervical Cancer Screening: What is the profile of women who increase the distance between early diagnosis and cure

Authors: Simone Bezerra Franco, Paulo Vitor Pereira Cotta, Marilia Miranda Forte Gomes, Alberluicia Soares Dâmaso, Geovanni Oliveira de Jesus, Juliana Aparecida Elias Fernandes, Vinicius De Oliveira Silva.

Paper: A new approach for ECG recording in rats: an autonomic nervous system analysis

Authors: Raphael Santos do Nascimento, Fernando da Silva Fiorin, Adair Roberto Soares Santos, Luiz Fernando Freire Royes, Jefferson L B Marques.

Paper: Active Learning and Teaching Methodologies for Engineering

Authors: Suelene Mammana, Mariana Zuliani Theodoro de Lima, Alessandra Akkari, Ricardo Antonio Fernandes, Adriana Righetto.

Plenary Talks - PANEL 3

October 22rd, 2019

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: “Fenômenos de transportes aplicados aos processos industriais”

Speaker: Daniela Helena Pelegrine Guimarães, PhD.



Lecture: “O uso de tecnologias limpas para reaproveitamento de subprodutos da indústria de alimentos”

Speaker: Sr. Arthur Luiz Baião Dias.



Paper: Physical ergonomics applied to the administrative sector and the factory floor: the case of the Brazilian plant of a food industry

Authors: Kélvyn Aguiar, Maria Thereza Rosa, Luiz Vicente Mello Filho, Joao Carlos Gabriel, Alessandra Akkari.

Paper: Modeling of solid-liquid equilibrium in nitrobenzene and para-xylene mixtures

Authors: Michelli Fontana, Caroline Santos Ribas, Paulo Henrique Schuck, Rafael Lopes Turino, André Zuber.

Plenary Talks - PANEL 3

October 22rd, 2019

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: Prototype proposal for control and inspection of fuel supply

Authors: Lucas Eder de Araújo Sousa, Felipe Silveira Stopiglia, Luiz Vicente Figueira de Mello Filho, Daniela Helena Pelegrine Guimarães, Maria Thereza Rosa.

Paper: Production process of bioethanol fuel using supported *Saccharomyces cerevisiae* cells

Authors: Lucidio C. Fardelone, Taciani ods Santos Bella de Jesus, Gustavo Paim Valença, José Roberto Nunhez, José Augusto Rosário Rodrigues, Paulo José Samenho Moram.

Paper: Plataforma Modular para Sensores Químicos

Authors: Guilherme Matsuo, André Okihara, Renata Mendes, Frank Behrens.

Paper: Feasibility in using banana flour in breads production: Centesimal and sensory analysis

Authors: Nathália Rafaela Santos de Carvalho, Maria Thereza Rosa, Isabela Francabandiera Torniziolo, Daniela Helena Pelegrine Guimarães.

Paper: Fabricação de Vidros Transparentes Utilizando Sílica Proveniente da Cinza da Casca de Arroz E Tratamento Ácido

Authors: Liandra Lima, Jaderson Gonçalves, Jacson Menezes, Chiara Valsecchi.

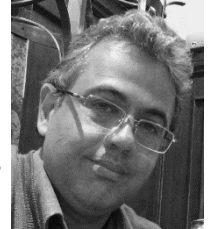
Plenary Talks - PANEL 4

October 22rd, 2019

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. Edgard Luciano Oliveira da Silva, PhD.

Lecture: “Oficina de Computação Afetiva: Reconhecimento de emoções e aplicações práticas”

Speaker: Msc. Murilo Marin Pechoto.

Eng. Leandro de Campos.



Lecture: “Internet das Coisas: das casas inteligentes às Indústrias”

Speaker: Eng. Lahis Almeida.



Lecture: “Blockchain-Technology for Healthcare Delivery: case study of preventing Drug Abuse”

Speaker: Sr. Thierry Oscar Edoh - University of Bonn



Paper: The Hardware Challenges for Industry 4.0 and IoT

Authors: Edson Camilo, Yuzo Iano, Gabriel Gomes de Oliveira, Diego Arturo Pajuelo Castro, Ana Carolina Borges Monteiro, Reinaldo Padilha.

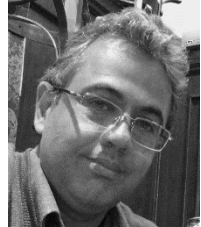
Plenary Talks - PANEL 4

October 22rd, 2019

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. Edgard Luciano Oliveira da Silva, PhD.

Paper: Development of an Intelligent Parking Aid System

Authors: Lucas Amaral Costa, Alessandro Corrêa Victorino, Pedro Chaves.

Paper: Reduction AWGN from Digital Images Using A New Local Optimal Low Rank Approximation Method

Authors: N Razmjoo.

Paper: A study on blocking ratio reduction for Elastic Optical Networks through the use of wavelength converters

Authors: Antonio Forster, Marcius Carvalho, Indayara Martins.

Paper: Synchronization Reduction of the Conjugate Gradient Detector Used in Massive MIMO Uplink

Authors: Juan Minango, Yuzo Iano, Pablo David Minango Negrete, David Allan Ibarra, Andrea Flores, Gabriel Gomes de Oliveira.

Paper: Speech-To-Text em ligações telefônicas: Um comparativo entre APIs para conversão na língua portuguesa

Authors: Nilton Iinuma, Massaki de Oliveira Igarashi.

Plenary Talks - PANEL 5

October 23th, 2019

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: “Levantamentos planialtimétricos feitos com drones e GNSS”
Speaker: Prof. Sergio Vicente Denser Pamboukian, PhD.



Paper: Análise gráfica do PDOP no sistema Geolocal
 Authors: Leticia Friolani, Francisco Fuller, Sergio Pamboukian.

Paper: Spectral Behavior of Maize, Rice, Soy and OAT Crops Using Multi-spectral Images from SENTINEL-2
 Authors: Lady Angulo.

Lecture: “Energia Fotovoltaica - Panorama atual e perspectivas de retorno financeiro do investimento”
Speaker: Eng. Leonardo Gimenes.



Paper: Study of Dams in the Cities of Pedreira-SP and Amparo-SP
 Authors: Gabriel Gomes de Oliveira, Yuzo Iano, Vania Vieira, Vieira, Thais Cristina Paião, Ana Carolina Borges Monteiro, Reinaldo Padilha, Diego Arturo Pajuelo Castro, Pablo David, Navid Razmjooy, Thierry Oscar Edoh.

Paper: Análise da Cinza de Serragem de Madeira para a Produção de Grafeno.
 Authors: Lisiane Severo, Pablo Freitas, Rosiéli Jardim, Juliana Bahu Rodrigues, Jacson Menezes, Luis Enrique Gomez Armas.

Plenary Talks - PANEL 5

October 23th, 2019

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	
	Paper: Dimensionamento Hidráulico para Sistemas de Infraestrutura Urbana: Estudo de Caso na Região Metropolitana de Campinas Authors: Daniele Leal Boaretto.	
	Paper: Construction Site Automation: Using Robots to Build Houses in Series Authors: Joao Carlos Gabriel, Gustavo H. M de Campos, Marcos Amaral, Mariana Zuliani Theodoro de Lima.	
16:45 - 17:15	Paper: Analysis of electrical adequacy in riverside and road schools in the Amazon Authors: Thainá Ribeiro, Rubens Fernandes.	
	Coffee-break	

Plenary Talks - PANEL 6

October 23th, 2019

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: "Venha "surfear nas ondas da inovação sem ser engolidos por elas" via Roadmap Prospectivo: F-Plan"
Speaker: Msc. Lilian Laraia.



Paper: Poder de Mercado em Mercados Elétricos Desregulamentados com Integração de Fontes de Energia Renovável

Authors: Yenny Guerra, Leonardo Paucar, Raimundo nonato Diniz Costa Filho.

Paper: Sensors Network for Evaluate the Performance of Photovoltaic Modules in BAPV Systems

Authors: Josué Cardoso, Lia Toledo Moreira Mota, Claudia Pezzuto, Valéria Cristina dos Santos Silva, Marcelo Soeira, Gabriel Gomes de Oliveira, Yuzo Iano.

Paper: Implementação de uma chave de transferência estática aplicada a sistemas de iluminação a LED utilizando um sistema fotovoltaico off-grid

Authors: Lennon Nascimento, Rubens Fernandes, Ruan Teixeira, Samuel Rego.

Paper: Localização de Falhas em Linha de Transmissão Utilizando Coeficientes de Frequência Mel Cesptrais e LS-SVR

Authors: Hermes Manoel Castelo Branco, James Reis, Luan Pereira.

Plenary Talks - PANEL 6

October 23th, 2019

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

Paper: Estudo e modelagem computacional do dispositivo descarregador em forma de chifre para isolação de cabos para-raios

Authors: Rayssa de Aquino Gomes, Márcio Severino da Silva, José Mauricio de Barros Bezerra.

Paper: Escalators: a technological contribution In reducing failures and maintaining

Authors: Fernanda Miyagi, Roberta Caixeta, Ana Luiza Fracaro, Raissa Reganassi, Leticia Volpi, Luiz Vicente Mello Filho.

Plenary Talks - PANEL 7

October 23th, 2019

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.	
	Lecture: “Critical Infrastructure Cyber Security - Segurança Cibernética de Infraestruturas Críticas ” Speaker: Msc. Fabio Antonio Ferreira.	
	Lecture: “Efeitos de Radiação em Sistemas Respaciais ” Speaker: Prof. Sílvio Manea, PhD.	
	Lecture: “Sensores inteligentes para Análise de vibrações e análise modal ” Speaker: Msc. Helosman Valente de Figueiredo.	
	Paper: Suggestion mining for generating new services and new product ideas from YELP reviews Authors: Daniel Collucci, Alexandre Junqueira, Carlos Forster.	
	Paper: Presence sensors: A comparison between the ultrasonic and the infrared in the detection of people and vehicles Authors: Rosana Rego, Rodrigo S. Semente.	
	Paper: Ataques em Sistemas e Serviços de Rede Utilizando Exploits Remotos: Um Estudo Prático Authors: Rafael Fernando Diorio, Edivaldo Serafim, Karlan Ricomini Alves, Matheus Carvalho Meira.	
	Paper: Comparação de diferentes funções de ativação no reconhecimento ótico de caracteres alfabéticos Authors: Gustavo da Silva Oliveira, Kenji Nose Filho.	

Plenary Talks - PANEL 7

October 23th, 2019

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: Mtconnect monitoring to predict tool wear in turning

Authors: Adalto de Farias, Marcelo Otávio dos Santos, Sergio Delijaivoc,
Ed Claudio Bordinassi.

Paper: Ataques de Força Bruta: Um Estudo Prático

Authors: Rafael Fernando Diorio, Edivaldo Serafim, Karlan Ricomini
Alves, Matheus Carvalho Meira.

**Paper: A review of magnetic field visualization methods and
applications for macroscale objects**

Authors: Leandro Trujilho, Osamu Saotome.

Paper: HoG Multi-Face Detection

Authors: Leandro Duarte, Cláriton Bernadelli.

**Paper: Model Predictive Controllers: Development of a Tuning
Methodology using Sensitivity Functions**

Authors: André Luiz Paes de Lima, Luz Adriana Toro.

Plenary Talks - PANEL 8

October 23th, 2019

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: “BNDES - Um Plano de Ação para o País em Cidades Inteligentes e IoT” Speaker: Eng. Thiago Gonçalves Ledo.	
	Lecture: “Plano Estratégico Campinas Cidade Inteligente - PECCI” Speaker: Sivaldo Donizetti Teodoro.	
	Paper: Smart Contracts and Blockchain: An Application Model for Traceability in the Beef Supply Chain Authors: Anderson Felipe, Antonio Carlos Demanboro.	
	Paper: New Information and Communication Technologies in the Configuration of Smart Cities to Improve the Sustainability of Urban Habitat Authors: Roberta Squaiella, MAria Victoria Marchelli, Roberto Righi.	
	Paper: Security on Internet of Things Applications Using Blockchain Authors: Lucas Alves, Yuzo Iano, Gabriel Oliveira, Diego Arturo Pajuelo Castro	
	Paper: Electronic Government Intelligent Cities Challenges of Small Towns Authors: Valéria S. dos Reis, Yuzo Iano, Gabriel Gomes de Oliveira, Telmo C. Lustosa, Mauro A. S. Miranda, Odair Mosque	
	Paper: Digital Garbage Bin Monitoring System (Dgbms): A Smart Garbage Monitoring and Management Cyber-physical System Authors: Thiagarajan Y, Vania Vieira, Vieira, Thierry Edoh, Gabriel Gomes de Oliveira, Ana Carolina Borges Monteiro, Reinaldo Padilha, Yuzo Iano	

Plenary Talks - PANEL 8

October 23th, 2019

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: Use of Alternative Water Sources of IFPB Campus Cajazeiras (PB) - Focus on Sustainability Authors: Jéssica Silva.
	Paper: Redes Neurais Artificiais Aplicadas à Previsão de Irradiância Global Horizontal no Contexto de Cidades Inteligentes Authors: Frederico Pedro Bon, Wanessa Caroline Maciel Carvalho, Leonel Laboissiere, Ricardo Augusto Souza Fernandes.
	Paper: The Evolution of Independent Cars and the Impact on Society Authors: Alysso Oliveira, Yuzo Iano, Diego Oliveira Pajuelo, Ana Carolina Borges Monteiro, Reinaldo Padilha França, Gabriel G. de Oliveira.
	Paper: Inter-vehicle Communication Performance Evaluation based on 802.11p protocol applied to low cost system Authors: Alceu Rosa Neto, Lia Mota.
	Paper: A Electric Vehicle Charge Station equipped with communication interface for Smart Grids Authors: Eduardo Soares, Marina Lavorato
	Paper: Safety Management Applied to Cities of Intelligent Design Authors: Telmo C. Lustosa, Yuzo Iano, Gabriel Gomes de Oliveira, Valéria S. dos Reis
	Paper: Aplicações da Tecnologia Blockchain em Ambientes de Cidades Inteligentes Authors: Brendo Marques Lourenço Faisca, Rafael Fernando Diorio.

October 23th, 2019

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: “Os Desafios da Transformação Digital na Gestão das Empresas de Manufatura e Serviços”

Speaker: Prof. Msc. Fabio Rodrigo Fachini.



Round Table: Transformação Digital no Ensino de Engenharia

Speaker: Prof. Msc. Sergio Roberto Pereira.

Diretor Adjunto do Centro de Ciências Exatas, Ambientais e de Tecnologias – CEATEC Pontifícia Universidade Católica de Campinas (PUC-CAMPINAS).



Speaker: Prof. Msc. Fabio Rodrigo Fachini.

Coordenador de Especialização e Docente nos Centros de Economia e Administração (CEA) e no Centro de Ciências Exatas, Ambientais e de Tecnologia – CEATEC Pontifícia Universidade Católica de Campinas (PUC-CAMPINAS).



Speaker: Prof. Msc Fábio Pereira Benjovengo.

Integrador Acadêmico de Graduação do Centro de Ciências Exatas, Ambientais e de Tecnologias – CEATEC Pontifícia Universidade Católica de Campinas (PUC-CAMPINAS).



Speaker: João Ulysses Laudissi.

Engenheiro de Desenvolvimento de Projetos de Educação Profissional.



Speaker: Paula Carvalho.

Gerente Regional CIESP - Campinas.



Plenary Talks - PANEL 9

October 23th, 2019

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: Automatic balancing system of single phase consumer units connected to the low voltage distribution network

Authors: Alex Sander Leocádio Dias, Israel Gondres Torné.

Paper: Portos brasileiros: alguns indicadores

Authors: Gabriel Carvalho, Denise Ferreira, Alvaro Lourenço, Letícia Silva, Mirella Padovani.

Paper: Portos internacionais: uma análise preliminar

Authors: Alvaro Lourenço, Denise Helena Ferreira, Gabriel Carvalho, Letícia Silva, Mirella Padovani.

Paper: Alunos da Extensão Universitária analisam Conforto Térmico em ambientes fechados

Authors: Francisco Gomes, Gustavo D´Estefano, Letícia Gonçalves, Ana Silva, Pedro Vendrame.

Paper: Uso de Sensor de Baixo Custo em Análises de Temperaturas em Áreas Verdes

Authors: Jô Vinícius Barrozo Chaves, Lia Toledo Moreira Mota.

Plenary Talks - PANEL 9

October 23th, 2019

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: University of Brasília's potential for Bioeconomy services and innovation

Authors: Flávio Pereira.

Paper: Encontros de Extensão e a Contribuição para os Projetos de Extensão

Authors: Francisco Gomes, Ana Silva, Letícia Gonçalves, Pedro Vendrame.

Paper: Fontes preferenciais de financiamento de empresas de capital aberto: Uma análise da teoria do Pecking Order no mercado brasileiro

Authors: Ricardo Antonio Fernandes, Gabriel Marques Peres, Rafael Nogueira Tomazini, Ygor Guimarães Silva, José Matias Filho.

Paper: Conceito dos 5Rs: Como introduzir a mudança de pensamento no ensino básico a partir da educação ambiental

Authors: Ana Cláudia de Seixas, Giovanna Maccari, Jaqueline Silva de Oliveira.

Paper: Criação do aprendizado sobre resíduos eletrônicos e seus impactos ambientais por intermédio de oficinas socioambientais para alunos do ensino

Authors: Ana Cláudia de Seixas, Ana Paula Curvelo Manso, Julia Maria Truzzi Ascencio, Nicole Larissa Mauro.

Paper: Análise da Perda de Carga e da Porosidade em Leito Fixo

Authors: Emily Rocha, Paulo Pereira.

Scientifical Poster Section – Main space

October 24th, 2019

14:00 – 15:00

Paper: Microcontroller based Brilliant Head protector utilizing GSM &GPRS

Authors: Thiagarajan Y. Gabriel Gomes de Oliveira,, Yuzo Iano, Vania Vieira, Vieira, Ana Carolina Borges Monteiro, Reinaldo Padilha, Diego Arturo P. Castro.

Paper: Wind Energy Applications

Authors: Thiagarajan Y, Gabriel Gomes de Oliveira. , Yuzo Iano, Vania Vieira, Vieira, Ana Carolina Borges Monteiro, Reinaldo Padilha, Diego Arturo P. Castro.

Paper: Sustainability Techniques in Civil Construction

Authors: Gabriel Gomes de Oliveira, Yuzo Iano, Vania Vieira, Vieira, Ana Carolina Borges Monteiro, Reinaldo Padilha, Diego Arturo P. Castro. Navid Razmjoo, Thierry Oscar Edoh.

Paper: Practical experiment on catapulta, using methods of mechanical physics

Authors: Gabriel Gomes de Oliveira, Yuzo Iano, Vania Vieira, Ana Carolina B. Monteiro, Reinaldo Padilha, Thiagarajan Y, Diego Arturo Pajuelo, Navid Razmjoo, Thierry Oscar Edoh.

Paper: Improvements and gains on the power factor correction in low voltage

Authors: Rafael Moraes, Fábio Cavarsan, Rosivaldo Ferrarezi, Gabriel Oliveira.

Paper: Where European Union, South and East Asian countries stands in terms of legislative framework for environmental protection challenges from electronics industry

Authors: Arshad Ali.

Paper: Human aging and ageism: a study with Brazilian individuals over 40 years old

Authors: Juçara Pereira da Costa Neves, Neusa Maria Bastos Fernandes dos Santos, Igor Munhoz, Alessandra Akkari, Danilo Nunes, Marco Antonio Ferreira.

Paper: Mentoring Process: An Assessment of Career, Psychosocial Functions and Mentor Role Model

Authors: Neusa Maria Bastos Fernandes dos Santos, Mariana Juer, Igor Munhoz, Alessandra Akkari, Rodrigo Guimarães Motta, Mariana Konyosi Miyashiro.

Scientifical Poster Section – Main space

October 24th, 2019

14:00 – 15:00

Paper: Compensation Program: A Quantitative Study of the Top Management Team's Level of Knowledge and Satisfaction

Authors: Neusa Maria Bastos Fernandes dos Santos, Rafael Maia Chagas, Alessandra Akkari, Igor Munhoz, Fernando Fukunaga, Ligia Kaori Matsumoto Hirano.

Paper: Ports and waterways case study: Port of Singapore

Authors: Gabriel Gomes de Oliveira, Yuzo Iano, Ana Carolina Borges Monteiro, Reinaldo Padilha, Diego Arturo Pajuelo, Michell Costa, Thiagarajan Y.

Paper: A Non Isolated Three Port DC-DC Converter for Low Power Application

Authors: Thiagarajan Y., Gabriel Gomes de Oliveira, Yuzo Iano, Vania Vieira, Vieira, Ana Carolina Borges Monteiro, Reinaldo Padilha, Diego Arturo Pajuelo.

Paper: 16S V3-V4 Metagenome and MALDI-TOF Studies in Cow Dung Slurry and Electrode Biofilm from Microbial Fuel Cell

Authors: Thiagarajan Y., Ashok Kumar, Gabriel Gomes de Oliveira, Yuzo Iano, Ana Carolina Borges Monteiro, Reinaldo Padilha, Diego Arturo Pajuelo Castro.

Paper: Detection of cardiac arrhythmias using simple artificial neural network

Authors: Marcos Espindola, Yuzo Iano, Ricardo Leite, Fernando Lino.

Paper: Ethanol microdestilires innovations analisis

Authors: Dario Bonano Palacio, Rômulo Gonçalves Lins, Ricardo Gaspar.

Paper: Segurança e Gerenciamento da Rede IoT

Authors: Jose Roberto Emiliano Leite, Paulo S. Martins, Edson L. Ursini.

Paper: An Interval Insight to Adomian Decomposition Method for Ordinary Differential Systems by Considering Uncertain Coefficients with Chebyshev

Authors: N Razmjoooy.

Paper: A Multi-criteria Modelling for Ranking CO2 Emitting G20 Countries from The Kaya And their Impacts on Elderly Health

Authors: Leila Abreu, H. R. M. da Hora, Joao Rangel, Milton Erthal, N Razmjoooy, Vania Vieira, Thierry Edoh, Gabriel Gomes de Oliveira, Yuzo Iano.

Scientifical Poster Section – Main space

October 24th, 2019	
14:00 – 15:00	Paper: Energy Quality Monitoring, Testing And Measuring System Through Mobile Networks Authors: Felipe Santos.
	Paper: Estimation of Gait Spatial-Temporal Parameters Using a Momentary-Contact-Sensors-Based System: A Preliminary Evaluation Authors: Wellingtania Dias, Meinhard Sesselmann, Iury Cardoso Brito, Maria Emília de Abreu Chaves, Ivo Oliveira Capanema, Renata Kirkwood, Rudolf Huebner.
	Paper: A Problemática da Inteligência Artificial e dos Vieses Algorítmicos: Caso Compas Authors: Leonardo Marques Vieira.
	Paper: The use of Light Pipe as a learning tool - Voice nominal bandwidth signal transmission in baseband Authors: Ademir Barbaro, Ismael Teixeira, Victor Ramos, Amilton Lamas.
	Paper: Classification of Skin Dermoscopic Images with the Application of Deep Learning Techniques Authors: Pablo David Minango Negrete, Yuzo Iano, Ana Carolina Borges Monteiro, Reinaldo Padilha França, Gabriel Gomes de Oliveira, Diego Arturo Pajuelo.
	Paper: Linguagem de programação com gamificação: Jogo e aplicativo para construção civil Authors: Massaki de Oliveira Igarashi, Guilherme da Silva Leme, Izabela Ap. F. Beraldo, Ricardo F. Trindade, Thalita de O. Consulin.
	Paper: Integração Numérica da Integral de Sommerfeld para Aplicação em Estruturas de Sensores Plasmônicos na Configuração SPCE Authors: Dayana Vieira, Karlo Costa.
	Paper: Productive Metrology as a guide for dimensional quality improvement - A case study Authors: Fabio Paulon, Crhstian Baldo.
	Paper: Development of a javascript web software for centrifuges sizing Authors: Thales Oliveira, Paulo Pereira.

Scientifical Poster Section – Main space

October 24th, 2019

14:00 – 15:00	Paper: Synthesis, Characterization and Evaluation of Corrosion Inhibition Potencial of a novel Schiff Base for carbon steel in acidic environment Authors: Pedro Henriques Cardoso dos Santos, Luana B. Furtado, Maria José O. C. Guimarães, Peter R. Seidl, Janaína C. Rocha, José Antônio C. P. Gomes.
	Paper: IoT security: a simplified analysis of the literature Authors: Tiago Monteiro, Marcos Amaral, Lia Mota, Yuzo Iano.
	Paper: Methodology that operating possibility a toll collection in commercial vehicles with axes suspended Authors: Michell Costa, Gisele Caruso, Yuzo Iano, Diego Arturo Pajuelo Castro, Gabriel Oliveira.
	Paper: Algoritmo Baseado em Estatísticas de Segunda Ordem para Separação Cega de Fontes com Misturas Não Lineares Authors: Juliana Saldanha, Caroline Moraes, Aline Neves, Denis Fantinato.
	Paper: X-ray characterization of TiO₂ obtained by chemical route for photocatalysis Authors: Ademir Costalonga, Andre Luis de Castro Peixoto, Tiago Siqueira Lima, Wesley Rafael Penteado.
	Paper: Production of Cantonese lexical tones by native speakers of Brazilian Portuguese: A comparative analysis Authors: João Vítor Possamai de Menezes, Adriano Vilela Barbosa.
	Paper: Análise de requisitos computacionais de técnicas de aprendizado de máquina para implementação em hardwares de baixo custo Authors: José Edson Moreno Júnior, Murilo Bellezoni Loiola.
	Paper: Um panorama de 20 anos do Big Data: Definição, conceitos e aplicações na engenharia Authors: Paulo Egreja Sartorelli, Massaki de Oliveira Igarashi, Mariana Zuliani Theodoro de Lima.
	Paper: Evaluation of Illuminance in Workplace: A Case Study on the Production of Multicolored Self-adhesive Authors: Wellingtonia Dias, Taciana Ramos Luz, Meinhard Sesselmann.

Scientifical Poster Section – Main space

October 24th, 2019	
14:00 – 15:00	Paper: Agitated thin film evaporator for concentrating orange juice monitored via arduino Authors: Carla Justino, Eliane Santos, Letícia Freitas, Joel Gutierrez, Paulo Pereira.
	Paper: Ensino de Química: O uso de recursos lúdicos e tecnológicos Authors: Fernanda Pons, Liandra Lima.
	Paper: Stochastic modeling of polymer products in isothermal and non-isothermal continuous reactors Authors: Matheus Dias de Carvalho, Jorge David Alguiar Bellido, Antonio Marcos de Oliveira Siqueira.
	Paper: Twenty years survey of Big Data: definition, concepts and applications in engineering Authors: Massaki de Oliveira Igarashi, Paulo Egreja Sartorelli, Mariana Z. T. de Lima.
	Paper: Anisotropy Analysis Of Hydraulic Conductivity In Artesin Well Authors: Leandra Inácio de Paula, Nathalia de Souza Dantas.
	Paper: Smart City: A qualitative reflection of how the intelligence concept with effective ethic procedures applied to the urban territory can effectively contribute to mitigate the corruption process and illicit economy markets Authors: Kelem Christine Pereira Jordão, David Bianchini, Yuzo Iano.
	Paper: Computational fluid dynamics analysis of blood rheology Authors: Guilherme Souza, Enzo Giustina, Marcus Carvalho, Raquel Lobosco.
	Paper: Monitoramento de processos industriais sob o efeito de concept drift utilizando análise externa Authors: Catherine Salvador Henrique.

Official Closing - Auditorium

October 24th, 2019	
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 – “O Processo de Curricularização da Extensão Universitária” Speaker: Prof. Rogério Bazi. 
18:00 – 18:30	Official Closing “Final Confraternization”

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