## Conference Program – IPST2021 (Brazilian TIME: UTC/GMT - 3 hours)

	Auditorium Opening Ceremony - Local Chairperson: 08:30 - 08:45		
	Keynote Speech (Auditorium): 08:45 - 09:25		
	A. R. M. Tenório, Brazilian Interconnected Power System - An Overview of a Continental Synchronous Grid		
	Message from the Technical Committee: 09:25 - 09:40		
	Message from the Chairperson: 09:40 - 09:50		
Day	Session: 1A, Transmission Lines and Cables I	Session: 1B, Real-Time Simulators	
	15-Vicente Torres (MEXICO), Fault Location on Transmission	13-Renzo Fabián (BRAZIL), Real-Time RMS-EMT Co-Simulation	
	Lines Based on Travelling Waves Using Correlation and MODWT	and Its Application in HIL Testing of Protective Relays	
	26-Grigoris K. Papagiannis (GREECE), Modal Propagation	23-Boris Bruned (FRANCE), Compensation Method for parallel	
₽0	Characteristics and Transient Analysis of Multiconductor Cable Systems Buried in Lossy Dispersive Soils	real-time EMT studies	
ä	31-Jiadai Liu (CANADA), Development of Phase Domain	44-Juan Villón (BRAZIL), Directional Element Evaluation Applied	
Б О	Frequency-dependent Transmission Line Model on FPGA for	to Half-wavelength Transmission Lines	
June 07 - Monday morning (10:00 – 12:00)	Real-Time Digital Simulator		
onc ( – (	38-Naiara Duarte (BRAZIL) , Extension of Vance's Closed-Form	101-Chenghong Zhou (CANADA), Large-scale Hybrid Real Time	
Σ .0:0	Approximation to Calculate the Ground Admittance of	Simulation Modeling and Benchmark for Nelson River Multi-	
07	Multiconductor Underground Cable Systems	infeed HVdc System	
nue	86-Jeewantha De Silva (CANADA), An Improved Passivity Enforcement Algorithm for Transmission Line Models using	102-Luis Garcete Alderete (BRAZIL), Hardware Implementation and Real Time Performance Evaluation of CT Saturation	
	Passive Filters	Detection and Compensation Algorithms	
	116-Mohammad Ghomi (DENMARK), Integrated Model of The	Detection and compensation rigoritims	
	Transmission Tower Surge Impedance and Multilayer Grounding		
	System Based on Full-wave Approach		
Day	Session: 2A, Switching and Fault Transients I	Session: 2B, System Protection I	
	21-Paulo Sergio Pereira Junior (BRAZIL), Performance	1-Saswati Mishra (INDIA): A Novel Two-terminal Fault Location	
	Assessment of a Line Protection Implemented With Process Bus and GOOSE Through Transient Closed Loop Tests	Approach Utilizing Traveling-waves for Series Compensated Line Connected to Wind Farms	
_	33-Gabriel Miguel Gomes Guerreiro (SWEDEN), Cross-Country	5-Javier Arturo Santiago Ortega (BRAZIL), Fault Impedance	
100	Faults in Resonant-Grounded Networks: Mathematical	Analysis and Non-Conventional Distance Protection Settings for	
tern (	Modelling, Simulations and Field Recordings	Half-Wavelength Transmission Line Applications	
7 - Monday aftı (13:30 -15:10)	92-Jagannath Wijekoon (CANADA), Transient Based Faulted	22-Jose David Doria-García (COLOMBIA), High Impedance Fault	
nda) -15	Conductor Selection Method for Double Circuit Lines	Modeling and Location for Transmission Line	
Mor :30	96-Maxime Berger (CANADA), Modeling of Li-ion Battery Energy	41-Sergio Pazzini da Silva Matos (BRAZIL), Protection Philosophy	
7 - 1	Storage Systems (BESSs) for Grid Fault Analysis	for Distribution Grids with High Penetration of Distributed Generation	
June 07 - Monday afternoon (13:30 -15:10)	98-Felipe Pretti Pessoa (BRAZIL), Parameter Estimation of DC	46-Francis Arody Moreno Vásquez (BRAZIL), Busbar Differential	
Jun	Black-Box Arc Models using Genetic Algorithms	Protection Using an Alternative Generalized Alpha Plane	
	110-Kleber Melo Silva (BRAZIL), Impact of DFT-Based Phasor		
	Estimation Errors Due to Commutation Failures of LCC-HVDC		
	Links on the Protection of AC Lines in the Near Vicinity		
	7	or (EMTP) - Auditorium: 15:20 – 15:40	
Day	Session: 3A, Transformers, Reactors, Inrush currents	Session: 3B, Switching and Fault Transients II	
_	89-Paul Akiki (FRANCE), Study of high frequency transient	50-Jhair Stivel Acosta Sarmiento (BRAZIL), Optimizing multi-	
000	overvoltage caused by cable-transformer quarter-wave resonance	circuit transmission lines for single-phase auto-reclosing	
ern	91-Abolfazl Babaei (CANADA), Transient Characteristics of On-	72-Bozidar Filipovic-Grcic (CROATIA), Effects of	
aft:	load Tap Changers During Change-over Operation	autotransformer's stabilizing winding on current-voltage	
- Monday afte 15:40 -17:00)		conditions during unsymmetrical faults	
70n:40	25-Toussaint Canal (FRANCE), Determination of the saturation	95-Felipe Vigolvino Lopes (BRAZIL), Adaptive Traveling Wave-	
7 - N (15:	curve of power transformers by processing transient	Based Algorithm for Time Alignment of Transmission Line Fault	
June 07 - Monday afternoon (15:40 -17:00)	measurements	Records	
Jun	109-Matheus Aires (BRAZIL), A Wavelet-Based Restricted Earth-	100-Joan Sebastian Chaves Huertas (BRAZIL), Transient Switching	
	fault Power Transformer Differential Protection	Analysis of a Nonconventional Rural Generation System	
		,	

Day	Session: 4A, Switching and Fault Transients III	Session: 4B, Power Electronics, FACTS, HVDC
June 08 - Tuesday morning (08:00 – 09:40)	69-Mohammad Shafieipour (CANADA), Three-Dimensional Full-	29-Samuel Neves Duarte (BRAZIL), Voltage Compensation in
	Wave Transient Analysis of Switches and Faults using a Method	Multi-Grounded Distribution Network with a Three-Phase Five-
	of Moments Solution of the Electric Field Integral Equation	Wire DSTATCOM
	81-Samuel Simões Brito de Azevedo (BRAZIL), Comprehensive	45-Vinícius Albernaz Lacerda (BRAZIL), Fault Distance Estimation in Multiterminal HVDC Systems using the Lomb-Scargle
	Analysis of the Fault Inception Angle Influence in Fault-Induced Traveling Waves	Periodogram
	84-Vassilis C. Nikolaidis (GREECE), A Voltage-Based Fault Location	67-Pablo Gómez (UNITED STATES), Electromagnetic Transient
_nes	Algorithm for Medium-Voltage Active Distribution Systems	Modeling of Form-Wound Stator Coils with Stress Grading
8 - J		System under PWM excitation
) e 0	108-Felipe Vigolvino Lopes (BRAZIL), Real-World Case Studies on	83-Hani Saad (France), Parameter Sensitivity Analysis on DC
Jul	Transmission Line Fault Location Feasibility By Using M-Class Phasor Measurement Units	Transients between MMC Station and Cable
	113-Younes Seyedi (CANADA), Impact of Fault Impedance and	
	Duration on Transient Response of Hybrid AC/DC Microgrid	
Day	Session: 5A, Lightning Surges and Insulation Coordination I	Session: 5B, Solution Methods and Algorithms I
	19-Alberto De Conti (BRAZIL), Evaluation of the Extended Modal-	75-Amauri Gutierrez Martins-Britto (BRAZIL), Inductive
	Domain Model in the Calculation of Lightning-Induced Voltages	Interferences Between a 500 kV Power Line and a Pipeline with a
	on Parallel and Double-Circuit Distribution Line Configurations  34-Rafael Alipio (BRAZIL), An Accurate Analysis of Lightning	Complex Approximation Layout and Multilayered Soil 56-Rodrigo Sousa Ferreira (BRAZIL), Transient Model to Study
	Overvoltages in Mixed Overhead-Cable Lines	Voltage Distribution in Electrical Machine Windings Considering
June 08 - Tuesday morning (10:00 – 12:00)	0000 2000	the Rotor
) (c	39-Frederico Santos Almeida (BRAZIL), Influence of Tower	59-Javier Tarazona (CANADA), Shifted Frequency Analysis-EMTP
3y m 2:00	Modeling on the Assessment of Backflashover Occurrence on	Multirate Simulation of Power Systems
08 - Tuesday mo (10:00 – 12:00)	Transmission Lines due to First Negative Lightning Strokes	74 William Laborana (Balcium) On the Harrist Ed.
Ţ. 0	58-Amauri Gutierrez Martins-Britto (BRAZIL), Transient Electromagnetic Interferences Between a Power Line and a	74-Willem Leterme (Belgium), On the Use of the Frequency Domain in Assessing Resonant Overvoltages during Transformer
08 -	Pipeline Due to a Lightning Discharge: An EMTP-based Approach	Energization
ne (	65-Akifumi Yamanaka (JAPAN), Equivalent Circuit Model of a	90-Jean MAHSEREDJIAN (CANADA), A Parallelization-in-time
] P	Transmission Tower Considering a Lightning Struck Point and	Approach for Accelerating EMT Simulations
	Cross-arms	
Day	Session: 6A, Fault Transients & Temporary Overvoltages	Session: 6B, System Protection II
	9-Raphael Leite de Andrade Reis (BRAZIL), Effects of CCVT Stray	7-Renan Morais Furlaneto (BRAZIL), Short Circuit Network
	Capacitances on Traveling Wave-Based Applications  20-Rodrigo Sousa Ferreira (BRAZIL), Sensitivity Analysis in the	Equivalents of Systems with Inverter-based Resources  8-Francis Arody Moreno Vásquez (BRAZIL), A New Time Domain-
uo	Transient Recovery Voltage in an Industrial Power System	Based Busbar Protection Algorithm
afternoon 30)	104-Rodrigo Sousa Ferreira (BRAZIL), Investigation of Cable	10-Letícia Almeida Gama (BRAZIL), Mathematical and
ay afte .5:30)	Influence on the Interturn Transient Voltage Distribution in	Experimental Evaluation of an Incremental Differential
lay .	Rotating Machine Windings using a Three-Phase Model	Protection Function Embedded in a Real Transmission Line Relay
June 08 - Tuesday (13:30 -15:	94-Paolo Marini (ITALY), Effect of Diode Arc-back fault on Short	35-Frankelene Pinheiro Souza (BRAZIL), High-Impedance Fault
- Tu	Circuit stress of Power Converter Transformer  3-Juan Diego Rios Penaloza (Italy); Performance Analysis of a	Identification Using Cyclostationary Characteristic Analysis  37-Lucas Simões (BRAZIL), A Power Transformer Differential
80	Transient-Based Earth Fault Protection System for Unearthed	Protection Based on Support Vector Machine and Wavelet
nue	and Compensated Radial Distribution Networks	Transform
		80-Rafaella Nascimento Meira (BRAZIL), Practical Assessment of
		POTT and DCB Teleprotection Schemes Using Computer
	Deal French Brown Latin by Common INTRO	Environment
Day	Session: 7A, Renewable Energy Sources	Technologies Inc.) - Auditorium: 15:40 – 16:00  Session: 7B, Power Electronics, FACTS, HVDC II
24,	4- Ilhan Kocar (Canada), STATCOM Integration into a DFIG-based	24-Baimel Dmitry (ISRAEL), New Type of Bridge Fault Current
	Wind Park for Reactive Power Compensation and its Impact on	Limiter with Reduced Power Losses for Transient Stability
	Wind Park High Voltage Ride-Through Capability	Improvement of DFIG Wind Farm
noc	14-Andrei Oliveira Almeida (BRAZIL), Series-DC Connection of	42-Kaustav Dey (INDIA), Comparison of Dynamic Phasor,
rno	Offshore Wind Generating Units - Modeling, Control and	Discrete-Time and Frequency Scanning Based SSR Models of a TCSC
afte 40)	Galvanic Isolation 54-Ali Banitalebi Dehkordi (CANADA), A Multi-Star Synchronous	51-Willy Arnaud Nzale Mimbe (CANADA), Accurate Time-Domain
June 08 - Tuesday afternoon (16:00 -17:40)	Machine Model for Real-Time Digital Simulation and Its	Simulation of Power Electronic Circuits
- OC	Applications	
- Tı	82-Rafael Alipio (BRAZIL), Bare versus Insulated Conductors for	106-Anton Stepanov (CANADA), Parallelization of MMC Detailed
80	Improving the Lightning Response of Interconnected Wind	Equivalent Model
nue	Turbine Grounding Systems	
	88-Huilman Sanca Sanca (BRAZIL), Robust Three-Phase	
	Distribution System Frequency Measurement Using a Variable Step-Size LMS	
	Step Size Livio	

Day	Session: 8A, Solution Methods and Algorithms I	Session: 8B, System Protection III
June 09 - Wednesday morning (08:00 – 09:40)	2-Ajinkya Sinkar (CANADA), A Comparative Study of	73-Rodrigo Andrade Ramos (BRAZIL), A Procedure to Automate
	Electromagnetic Transient Simulations using Companion Circuits,	the Assessment of Generator Protection
	and Descriptor State-space Equations 27-Meysam Ahmadi (CANADA), A Guaranteed Passive Model for	85- Renzo Fabián (BRAZIL), Application of a robust faulted phase
mom (	Multi-port Frequency Dependent Network Equivalents Using	selector to high-resistance and weak-infeed fault conditions on
- Wednesday n (08:00 – 09:40)	Network Synthesis Approach	an 1000-kV UHV transmission line
nes( - 09	43-Hans Kristian Høidalen (NORWAY), Analysis of Grey Box	55-Marjan Popov (THE NETHERLANDS), PMU-Voltage Drop Based
Ved ::00	Modelling of Transformers  49-Xi Shi (CANADA) , A Study on Interpolation and Weighting	Fault Locator for Transmission Backup Protection  118-Jacques Julien Deroualle (ITALY), Comparison of Short-
۸ <del>-</del> 6	Function for Numerical Fourier Transform	Circuit Current Calculations in DC Shipboard Power System for
e 0		Fuse Protection Designing
Jur	53-Tainá Fernanda Garbelim Pascoalato (BRAZIL) , Analysis of	112-Johnny José Orozco (BRAZIL), Evaluating Voltage Drop
	Transient Voltages and Currents in Short Transmission Lines on	Snapshot and Time Motor Starting Study Methodologies - An
Day	Frequency-Dependent Soils  Session: 9A, Solution Methods and Algorithms II	Offshore Platform Case Study Session: 9B, Harmonics & Power Quality
	6-Antonio Carlos Siqueira Lima (BRAZIL), Fault Impedance	60-Tarmo Trummal (ESTONIA), Modelling of Distribution Level
	Analysis and Non-Conventional Distance Protection Settings for	Coreless Induction Furnace for Rapid Voltage Change
<b>b</b> 0	Half-Wavelength Transmission Line Applications	Assessment
ning	11-Gurunath Gurrala (INDIA), Comparison of Vector and Matrix Format Tangential Interpolation for FDNE	62-Vassilis C. Nikolaidis (GREECE), Identifying Weaknesses in AC Shipboard Power Systems Operation during Motor Starts and
- Wednesday morning (10:00 – 11:40)	Format rangential interpolation for FDNL	Reacceleration
- Wednesday n (10:00 – 11:40)	12-Lorenzo de Jesus Castañon Alcala (MEXICO), Laplace	64-Thiago Silva Amorim (BRAZIL), Comparison of Inverter
nes( - 11	Transform Inversion through the Theta Algorithm for Power-	Controllers with Synthetic Inertia and Harmonic Compensation
/edi	System EMT Analysis	Features
) - V (10	48-Bamdad Salarieh (CANADA), Review and Comparison of Frequency-Domain Curve-Fitting Techniques: Vector Fitting,	93-Ram Machlev (ISRAEL) , Open Source Dataset Generator for Power Quality Disturbances with Deep-Learning Reference
June 09	Frequency-partitioning Fitting, Matrix Pencil Method, and	Classifiers
Jun	Loewner Matrix	
	32-Alireza MASOOM (CANADA), Modelica-based Simulation of	
	Electromagnetic Transients Using Dynaωo: Current Status and Perspectives	
Day	Session: 10A, Solution Methods and Algorithms	Session: 10B, System Protection IV
	99, Pablo Gómez (UNITED STATES), Frequency Domain Approach	18- Juan Guillermo Marin Quintero (COLOMBIA), Microgrids
	for Statistical Switching Studies: Computational Efficiency and	Physics Model-based Fault Location Formulation: Analytic-based
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	Effect of Network Equivalents	Distributed Energy Resources Effect Compensation
noon	Effect of Network Equivalents  117-Shilin Gao (CHINA), Three-Stage Implicit Integration for	Distributed Energy Resources Effect Compensation  30-Pedro Henrique Aquino Barra (BRAZIL), A Hardware-in-the-
ternoon	Effect of Network Equivalents  117-Shilin Gao (CHINA), Three-Stage Implicit Integration for Large Time-Step Size Electromagnetic Transient Simulation with Shifted Frequency-Based Modeling	Distributed Energy Resources Effect Compensation  30-Pedro Henrique Aquino Barra (BRAZIL), A Hardware-in-the- Loop Testbed for Microgrid Protection Considering Non-standard Curves
y afternoon 30)	Effect of Network Equivalents  117-Shilin Gao (CHINA), Three-Stage Implicit Integration for Large Time-Step Size Electromagnetic Transient Simulation with Shifted Frequency-Based Modeling  52-Jean René Zuluaga Duque (MEXICO), Parallel Computation of	Distributed Energy Resources Effect Compensation  30-Pedro Henrique Aquino Barra (BRAZIL), A Hardware-in-the- Loop Testbed for Microgrid Protection Considering Non-standard Curves  36-Romulo Bainy (UNITED STATES, Dynamic Zone Selection for
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dnesday afternoon 30 -15:30)	Effect of Network Equivalents  117-Shilin Gao (CHINA), Three-Stage Implicit Integration for Large Time-Step Size Electromagnetic Transient Simulation with Shifted Frequency-Based Modeling  52-Jean René Zuluaga Duque (MEXICO), Parallel Computation of Power System EMTs through Polyphase-QMF Filter Banks  78-Keyhan Sheshyekani (CANADA), A 3D FDTD Approach for	Distributed Energy Resources Effect Compensation  30-Pedro Henrique Aquino Barra (BRAZIL), A Hardware-in-the-Loop Testbed for Microgrid Protection Considering Non-standard Curves  36-Romulo Bainy (UNITED STATES, Dynamic Zone Selection for Busbar Protection Using Graph Theory and Path Analysis  40-Mario Arrieta Paternina (MEXICO), Two effective methods for
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Day	Session: 12A, Transmission Lines and Cables II	Session: 12B, Systems Dynamics II
	57-Felipe Zanon (BRAZIL), Implementation of the Universal Line Model in the Alternative Transients Program	16-Maryam Torabi Milani (CANADA), Development and Validation of a New Detailed EMT-type Component-based Load
	in the Alternative Transients Program	Model
	63-Jesus Morales Rodriguez (CANADA), Modeling of Overhead	17-Aramis Schwanka Trevisan (GERMANY), Assessment of
gu	Transmission Lines for Trapped Charge Discharge Rate Studies	Interactions Involving Wind Farms in Large-Scale Grids
l in	71-Luiza Mendonça Aviani Ribeiro (BRAZIL), Impact of	28-Eleftherios Kontis (GREECE), Estimation of Power System
) m (0)	Transmission Line Modeling Aspects on TW-Based Fault Location	Inertia: A Comparative Assessment of Measurement-Based
day mo 10:30)	Studies	Techniques
L S	77-John Liu (CANADA), An Efficient Analytical Based Technique	66-Theofilos A Papadopoulos (GREECE), Multi-channel
.0 - Thu (08:30	to Numerical Calculation of Extended Earth Return Impedance	Measurement-based Identification Methods for Mode
10 -	and Admittance of Overhead Lines	Estimation in Power Systems
Je 1	97-Haoyan Xue (CANADA), Evaluation of External	68-Wandry Rodrigues Faria (BRAZIL), Service Restoration in
June	Electromagnetic Fields Generated by A Multi-Phase	Modern Distribution Systems Addressing Grid-Connected and
	Underground Cable Based on Transmission Line Approach	Islanded Operations
	115-Antonio Carlos Siqueira Lima (BRAZIL), Earth Return	79-Santosh V Singh (INDIA), Extraction of Open-Loop Frequency
	Admittance Impact on Crossbonded Underground Cables	Response of Power Apparatus using Transient Data from
		Multiple Naturally Occurring Disturbances
	Closing Ceremony (Auditorium) 10:30 - 11:00	

Each presentation lasts 20 minutes including 5 minutes for discussions