

# PROGRAMAÇÃO

15 de Outubro de 2019					
Agenda		Room 1	Room 2	Room 3	Room 4
08:00	10:00	Session B1	Session E1	Session S1	Session B2
10:00	10:10	Coffee at Foyer			
10:10	12:10	Session B3	Session E2	Session JDP1	Session B4
12:10	13:30	Lunch			
13:30	14:00	Opening Cerimony			
14:00	15:00	Keynote – Carlos Lopes-Molina			
15:00	15:30	Coffee Break			
15:30	17:30	Session B5	Session E3	ASSIN	Session B6

16 de Outubro de 2019					
Agenda		Room 1	Room 2	Room 3	Room 4
08:00	10:00	Session B7	Session B8	Session S2	Session B9
10:00	10:10	Coffee at Foyer			
10:10	12:10	Session B10	Session E4	Session E5	Session B11
12:10	13:30	Lunch			
13:30	15:00	Session B12	Session E6	Session JDP 2	Session B13
15:10	16:10	Keynote – Maria José Finatto			
16:10	16:30	Coffee Break			
16:30	17:30	Industry Panel			
17:40	19:30	CEIA/IC Meeting		CEPLN Meet	KDD

17 de Outubro de 2019					
Agenda		Room 1	Room 2	Room 3	Room 4
08:00	10:00	Session B14	Session E7	TUTORIAL	Session B15
10:00	10:10	Coffee at Foyer			
10:10	12:10	Session B16	Session E8	TUTORIAL	Session B17
12:10	13:30	Lunch			
13:30	15:00	Session B18	Session E9	TILIC	Session B19
15:10	16:10	Keynote – Sven Koenig			
16:10	16:30	Coffee Break			
16:30	18:30	Session B20	Session E10	Session B21	Session B22

18 de Outubro de 2019					
Agenda		Room 1	Room 2	Room 3	Room 4
08:50	10:50	Session B22	Session E11	Session S3	Session E12
10:50	11:00	Coffee at Foyer			
11:00	12:00	Keynote – Hendrik Blockeel			
		Lunch			
13:30	15:00	Session B23	Session B24	Session B25	Session B26
15:10	16:10	Keynote – Felipe Meneguzzi			
16:10	16:30	Coffee Break			
16:30	18:00	Session B27	Session E13	Session E14	Session E15

Tuesday 15		
Time	Session B1	Room 1
	Knowledge Representation and Reasoning	
	Session chair: Graçaliz Dimuro	
	<b>An Embedded Network Based Platform For Cognitive Robotics</b>	
08:00-08:20	Marcio Garcia, Augusto Loureiro da Costa, Diego Ferreira	
08:20-08:40	<b>Building a Massive corpus for Named Entity Recognition using free open data sources</b>	
	Daniel Menezes, Pedro Savarese, Ruy Luiz Milidui	
08:40-09:00	<b>Synthesis of Quantifier-Free First-Order Sentences from Noisy Samples of Strings</b>	
	Thiago Rocha, Ana Teresa Martins	
09:00-09:20	<b>Can NetGAN be improved by short random walks originated from dense vertices?</b>	
	Vinicius F. Caridá, Alex Mansano, Rogers Cristo, Amir Jalilifard	
09:20-09:40	<b>An Improved Evolutionary Hybrid Method for Cloud Provider Selection</b>	
	Rafael Parpinelli, Lucas Borges de Moraes, Adriano Fiorese	
09:40-10:00	<b>A Rough Sets-Based Method with Belief Merging Operators for Multiclass Classification Problems</b>	
	Rafael Albuquerque, João Alcântara	
Coffee Time!	Session B3	Room 1
	Natural Language Processing I	
	Chair session: Tatiane Nogueira	
10:10 – 10:30	<b>A Contextual Hierarchical Graph Model for Generating Random Sequences of Objects with Application to Music Playlists</b>	
	Igor de Oliveira Nunes, Gabriel Matos Cardoso Leite, Daniel RattonFigueiredo	
10:30 – 10:50	<b>Novel Features based on Sentence Specificity for Helpfulness Prediction of OnlineReviews</b>	
	Beatriz Lima, Tatiane Nogueira	
10:50 – 11:10	<b>Utterance Copy in Formant-based Speech Synthesizers Using LSTM Neural Networks</b>	
	Cassio Batista, Renan Cunha, Pedro Batista, Aldebaro Klautau, Nelson Neto	
11:10 – 11:30	<b>Accelerating word embedding generation with fine-grain parallelism</b>	
	Leonardo Afonso Amorim, Mateus e Freitas, Altino Dantas, Celso Camilo-Junior, Weber Martins, Wellington Martins	
11:30-11:50	<b>Automating News Summarization with SentenceVectors Offset</b>	
	Maurício Steinert, Roger Granada, João Paulo Aires, Felipe Meneguzzi	
11:50 – 12:10	<b>Mining Journals to the Ground: An Exploratory Analysis of Newspaper Articles</b>	

11:30 – 12:10	Camila Leite, Lucas May Petry, Vinicius Freitas, Carina F. Dorneles	
Lunch		
13:30 – 14:00	<b>Opening Ceremony</b>	
14:00 – 15: 00	<b>Keynote: Zadeh and Marr: A tale of two pioneers</b>	
	Speaker : Carlos Lopes-Molina	
Coffee Time!	Session B5	
	Best Papers Session	
15:30 – 15:50	<b>Novelty Detection for Multilabel Stream Classification</b>	
	Joel D. Costa Júnior, Elaine Faria, Jonathan A. Silva, JoaoGama, Ricardo Cerri	
15:50 – 16:10	<b>Tensor Fukunaga-Koontz Transform for Hierarchical Clustering</b>	
	Bernardo B. Gatto, Marco A. F. Mollinetti, Eulanda M. dos Santos, Kazuhiro Fukui	
16:10 – 16:30	<b>Multidimensional Projections Analysis Using Performance Evaluation Planning</b>	
	Danilo Coimbra, Erick Pinheiro, Maycon Peixoto, Tacito Neves	
16:30 – 16:50	<b>Active Learning for Evolutionary Constrained Clustering</b>	
	Matheus Campos Fernandes, André Pereira, Thiago Covoes	
16:50 – 17:10	<b>Symbolic Planning for Strong-Cyclic Policies</b>	
	Viviane dos Santos, LelianeNunes de Barros, Viviane Menezes	
17:10 – 17:30	<b>An RBF Network Based Crossover for Pseudo-Boolean Optimization</b>	
	Renato Tinos	

Room 1

Time	Tuesday 15		
	Session E1		
	Deep Learning		
	Session Chair: Ricardo Bastos C. Prudencio		
08:00-08:20	<b>A solution for the Elevators Group Dispatch by Multiagent Reinforcement Learning</b>	Room 2	
	Jordão Memória e José Everardo Bessa Maia		
08:20-08:40	<b>Multi-Objective Optimization of Sequence of Layers in Deep Learning Architectures</b>		
	Mayara Castro, Giuseppe Fiorentino Neto, Pérciles Miranda, Filipe Cordeiro e Ricardo Prudêncio		
08:40-09:00	<b>A study on Anomaly Detection GAN-based methods on image data</b>		
	Emanuel Silva e Johannes Lochter		
09:00-09:20	<b>Exploring centroids initialization within Deep Convolutional Embedded Clustering</b>		
	Leonardo Nogueira e Adriane Serapião		
09:20-09:40	<b>Evaluation of recurrent neural network architectures to help motor disabled people through brain computer interface</b>		
	Fabricio Torquato Leite, Lucas Dutra, André Carneiro e Johannes Lochter		
09:40-10:00	<b>End-To-End Imitation Learning of Lane Following Policies Using Sum-Product Networks</b>	Room 2	
	Renato Geh e Denis Mauá		
Coffee Time!	Session E2		
	Machine Learning Applications I		
	Session Chair: Edimilson B. dos Santos		
10:10 – 10:30	<b>On the Analysis of Machine Learning Classifiers to Detect Traffic Congestion in Vehicular Networks</b>		Room 2
	Lucas Carvalho, Maycon da Silva, Edimilson Santos e Daniel Guidoni		
10:30 – 10:50	<b>One Class Classification to Detect PIWI-interacting RNAs</b>		
	Rafaela Ferreira, Adriano Polpo e Ricardo Cerri		
10:50 – 11:10	<b>Anode Temperature Classification for Refining the Chemical Composition of Liquid Metal in an Electric Arc Furnace</b>		
	Tiago Ferreira, Karla Figueiredo e Marley M. B. R. Vellasco		
11:10 – 11:30	<b>Single and Multiple Failures Diagnostics of Pneumatic Valves using Machine Learning</b>	Room 2	
	Humberto Sano, Joao Pedro Pinheiro Malere e Lilian Berton		

11:30-11:50	<b>Comparison of Machine Learning Models for Total Dengue Cases Prediction</b> Thiago Medeiros Carvalho, Gabriel Lins Tenório, Marley M. B. R. Vellasco, Karla Figueiredo e Wouter Caarls
11:50 – 12:10	<b>Recognizing Power-law Graphs by Machine Learning Algorithms using a Reduced Set of Structural Features</b> Alane Lima, André Vignatti e Murilo da Silva
Lunch	

13:30 – 14:00	<b>Opening Ceremony</b>		
14:00 – 15: 00	<b>Keynote: Zadeh and Marr: A tale of two pioneers</b>		
	Speaker : Carlos Lopes-Molina		
Coffee Time!	Session E3		Room 2
	Machine Learning Applications II		
	Session Chair: Reinaldo Bianchi		
15:30 – 15:50	<b>Housing Prices Prediction with a Deep Learning and Random Forest Ensemble</b>		
	Bruno de Aquino Afonso, Luckeciano Carvalho Melo, Willian de Oliveira, Samuel Sousa e Lilian Berton		
15:50 – 16:10	<b>Data Characterization for Electrical Load Disaggregation using Supervised Learning</b>		
	Wesley Souza e Tiago Almeida		
16:10 – 16:30	<b>An acoustic scene classification approach involving domestic violence using machine learning</b>		
	Helton Souto, Rafael Ferreira Mello e Ana Paula Furtado		
16:30 – 16:50	<b>Will I Remain Popular? A Study Case on Spotify</b>		
	Carlos Soares Araujo, Marco Cristo e Rafael Giusti		
16:50 – 17:10	<b>Previsão de receitas de ICMS do estado do Espírito Santo através de Seleção de Características em Cascata e técnicas de Aprendizado de Máquina</b>		
	Marcelo Magalhães do Carmo, Karin Komati e Francisco de Assis Boldt		
17:10 – 17:30	<b>Employing Gradient Boosting and Anomaly Detection for Prediction of Frauds in Energy Consumption</b>		
	Beatriz Albiero, Ricardo dos Santos e Sami Yamouni		

Time	Tuesday 15	
	Session S1	
	NEURAL NLP	
08:00-08:20	<b>Um Benchmark para Sistemas de Extração de Informação Aberta em Português</b>	Room 3
	Florencia Malenchini, Daniel Rodrigues, Rafael Glauber, Marlo Souza, Daniela Barreiro Claro	
08:20-08:40	<b>Avaliação Automática da Complexidade de Sentenças do Português Brasileiro para o Domínio Rural</b>	
	Sidney Leal, Vanessa Maia Aguiar de Magalhaes, Magali Duran, Sandra Aluísio	
08:40-09:00	<b>Sense Embeddings for Syntactic and Semantic Analogy for Portuguese</b>	
	Jéssica Silva, Helena Caseli	
09:00-09:20	<b>Part-of-Speech Tag Embeddings for Portuguese</b>	
	Paulo Augusto de Lima Medeiros, Bledson Bezerra, Carlos Prolo, Antonio Thomé	
09:20-09:40	<b>Um modelo para Sistema de Diálogo Fim-a-Fim usando Conhecimento de Senso Comum.</b>	Room 3
	Cecília Carvalho, Vladia Pinheiro, Lívio Antônio Melo Freire	
09:40-10:00		
Coffee Time!	Session JDP 1	
	Oral Communications	
	Chair: Stella Tagnin	
10:10 – 10:30	<b>Métodos de Clusterização para a Criação de Corpus para Rastreamento Ocular durante a Leitura de Parágrafos em Português</b>	Room 3
	Sidney Evaldo Leal, Sandra Maria Aluísio, Erica dos Santos Rodrigues, João Marcos Munguba Vieira and Elisângela Nogueira Teixeira	
10:30 – 10:50	<b>Teste de Memória de Trabalho de Leitura: Uma Versão Computadorizada Padronizada do Reading Span Test para o Português Brasileiro</b>	
	Laiane Vasconcelos, Priscilla Almeida, Gustavo Estivalet and José Ferrari-Neto	
10:50 – 11:10	<b>Subsídios Linguístico-Computacionais para a Revisão Gramatical Automática de Redações do Ensino Médio</b>	
	Ariani Di Felippo, Milena França, Dayse Simon and Pedro Ferreira Martins	
11:10 – 11:30	<b>Avaliação da Diversidade Contextual e da Frequência para a Tarefa de Identificação de Palavras Complexas da Simplificação Lexical</b>	Room 3
	Nathan Hartmann and Sandra Aluísio	

11:30-11:50	<b>Enriquecendo o corpus CM2News: Construção e Anotação de Coleções Bílingues de Notícias</b> Yasmin Vizeu Camargo and Ariani Di Felippo	Room 3
11:50 – 12:10	<b>Caracterização de desvios sintáticos em um corpus de redações: o processo de anotação</b> Renata Ramisch and Ariani Di Felippo	
Lunch		
13:30 – 14:00	<b>Opening Ceremony</b>	
14:00 – 15: 00	<b>Keynote: Zadeh and Marr: A tale of two pioneers</b> Speaker : Carlos Lopes-Molina	
Coffee Time!	ASSIN Segunda Avaliação de Similaridade Semântica e Inferência Textual	
15:30 – 15:50	<b>ASSIN 2: what for?</b> Organization Team: Livy Real	
15:50 – 16:10	<b>Lost in Translation: Bilingual Knowledge and Ensemble Techniques for Portuguese Semantic Similarity Analysis</b> Deep Learning Brasil: Ruan Chaves	
16:10 – 16:30	<b>Wide And Deep Transformers Aplicado no Processamento da Similaridade Semântica e Inferência Textual</b> Stilingue: Evandro Fonseca	
16:30 – 16:50	<b>A participação das equipas ASAPP na ASSIN 2</b> ASAPPpy/ASAPPj: José Santos	

Time	Tuesday 15		
	Session B2		
	Optimization Algorithms: Genetic Algorithms		
	Session chair: Gisele Pappa		
08:00-08:20	<b>A new method for identification of recombining components in the Generalized Partition Crossover</b> Ozeas Quevedo de Carvalho, Renato Tinos, Darrell Whitley, Danilo Sanches	Room 4	
08:20-08:40	<b>Parameter Tuning in Load Balancing Techniques for Wireless Sensor Networks through Genetic Algorithms</b> Lisane Brisolara de Brisolara, Matheus Braga, Alex Braga, Paulo R. Ferreira Jr.		
08:40-09:00	<b>Hybrid system for time series using iterative residual forecasting models</b> João Oliveira, Eraylson Galdino, Paulo Salgado Gomes de Mattos Neto		
09:00-09:20	<b>A Multiobjective Genetic Approach with TOPSIS to Learn Fuzzy Rule-Based Classification Systems</b> Antonio Eloy de Oliveira Araujo, Renato Krohling		
09:20-09:40	<b>An Improved Heuristic Based Genetic Algorithm for Bin Packing Problem</b> Aluísio Cardoso Silva, Carlos Cristiano Hasenclever Borges		
09:40-10:00	<b>A multi-objective approach for Symbolic Regression with Semantic Genetic Programming</b> Felipe Casadei, Gisele Pappa, João Francisco Barreto da Silva Martins		
Coffee Time!	Session B4		Room 4
	Ensemble Systems		
	Chair Session: Anne Canuto		
10:10 – 10:30	<b>Instance Hardness as a Decision Criterion on Dynamic Ensemble Structure</b> Carine Dantas, Anne Canuto, Rômulo Nunes, João C. Xavier-Júnior		
10:30 – 10:50	<b>Using Active Learning Sampling Strategies for Ensemble Generation on Opinion Mining</b> Douglas Vitório, Ellen Souza, Adriano L. I. Oliveira		
10:50 – 11:10	<b>Ensemble Regression Models Applied to Dropout in Higher Education</b> Paulo Silva, Marília N. C. A. Lima, Wedson Soares, Iago R. R. Silva, Roberta A. A. Fagundes, Fernando F. Souza		

11:10 – 11:30	<b>Investigating the impact of combining handwritten signature and keyboard keystroke dynamics for gender prediction</b>	Room 4
	Danilo Rodrigo Cavalcante Bandeira, Anne Canuto, Marjory Da Costa-Abreu, Michael Fairhurst, Diego Nascimento, Li Cheng	
11:30-11:50	<b>Online Local Boosting: improving performance in online decision trees</b>	
	Victor Turrisi da Costa, Saulo Martiello Mastelini, André Ponce de Leon F de Carvalho, Sylvio Barbon Junior	
11:50 – 12:10	<b>On Combining Diverse Models for Lyrics-Based Music Genre Classification</b>	
	Caio Ueno, Diego Furtado Silva	
Lunch		
13:30 – 14:00	<b>Opening Ceremony</b>	
14:00 – 15: 00	<b>Keynote: Zadeh and Marr: A tale of two pioneers</b>	
	Speaker : Carlos Lopes-Molina	
Coffee Time!	Session B6	
	Features and instances: selection, extraction and analysis	
15:30 – 15:50	<b>Investigating the robustness and stability tonoisly data of a dynamic feature selection method</b>	
	Jhoseph Jesus, Anne Canuto, Daniel Araújo	
15:50 – 16:10	<b>A geometry-based approach to visualize high-dimensional data</b>	
	Caio Flexa, Walisson Gomes, Sergio Viademonte, Claudomiro Souza Junior, Ronnie Alves	
16:10 – 16:30	<b>An Ordered Search for Subset Selection in Support Vector Orthogonal Regression</b>	
	Paulo Vitor Freitas da Silva, Raul Fonseca Neto, Saulo Mores Villela	
16:30 – 16:50	<b>Dynamic Correlation-based Feature Selection for Feature Drifts in Data Streams</b>	
	Jorge Cristhian Chamby-Diaz, Mariana Recamonde-Mendoza, Ana Bazzan	
16:50 – 17:10	<b>Data Normalization in Structural Health Monitoring by Means of Nonlinear Filtering</b>	
	Caio Flexa, Walisson Gomes, Claudomiro Souza Junior	
17:10 – 17:30	<b>The Influence of Sampling on Imbalanced Data Classification</b>	
	Victor Barella, Luis Garcia, André Ponce de\ Leon F de Carvalho	

Time	Wednesday 16		
	Session B7		
	Deep Learning Applications I		
	Session chair: Flavia Bernardini		
08:00-08:20	<b>A Deep Reinforcement Learning Approach to Asset-Liability Management</b>	Room 1	
	Alan Fontoura, Eduardo Bezerra, Diego Haddad		
08:20-08:40	<b>A New Approach to Navigation of Unmanned Aerial Vehicle using Deep Transfer Learning</b>		
	Pedro Pedrosa Rebouças Filho, Suane Pires Pinheiro da Silva, Paulo Honório Filho, Jefferson Silva Almeida, Leandro Marinho, Antonio Wendell Rodrigues, Navar Nascimento		
08:40-09:00	<b>Fire and Water: Using Deep Learning to Recognize Fluid Substances</b>		
	Alcione Oliveira, Alexandra Moreira Jugurta Lisboa-Filho		
09:00-09:20	<b>Increasing Accuracy of Medical CNN Applying Optimization Algorithms: an Image Classification Case</b>		
	Rafael Ramos, Celia Ralha, Tahsin M. Kurc, Joel H. Saltz, George Teodoro		
09:20-09:40	<b>Automatic Ocular Alignment Evaluation for Strabismus Detection Using U-NET and ResNet Networks</b>		
	Thayane Simões, Johnatan Souza, João Dallyson Sousa de Almeida, Aristófanés Corrêa Silva, Anselmo Cardoso de Paiva		
09:40-10:00	<b>Recognition of Simple Handwritten Polynomials Using Segmentation with Fractional Calculus and Convolutional Neural Networks</b>	Room 1	
	Francisco Marques Junior, Thelmo de Araujo, José Vigno Moura Sousa, Nator junior Carvalho da costa, Rodrigo Melo, Alano Pinto, Arata Andrade Saraiva		
Coffee Time!	Session B10		
	Optimization Algorithms and Machine Learning		
	Session chair: João C. Xavier-Junior		
10:10 – 10:30	<b>A Comparative Study on Automatic Model and Hyper-parameter Selection in Classifier Ensembles</b>		Room 1
	Antonino Feitosa, João C. Xavier-Júnior, Anne Canuto, Alexandre Oliveira		
10:30 – 10:50	<b>Automatic design of Convolutional Neural Networks using Grammatical Evolution</b>		
	Ricardo Henrique Remes de Lima, Aurora Pozo, Roberto Santana		
10:50 – 11:10	<b>Differential Evolution with Cluster-based External Archive and Local Search for Multimodal Optimization</b>		
	Rafael Parpinelli, Gabriel Dominico, Mateus Boiani		
11:10 – 11:20	<b>Towards an Interpretable Metric for DOTA 2 Players: An Unsupervised Learning Approach</b>		

11:10 – 11:30	Gabriel Franco, Marcos Henrique Fonseca Ribeiro, Giovanni Comarela	
11:30-11:50	<b>A Partitional Cooperative Coevolutionary Group Search Optimization Approach for Data Clustering</b> Luciano Pacífico, Teresa Ludermir	
11:50 – 12:10	<b>Using Hyperplanes to Create Neutral Networks in Pseudo-Boolean Optimization</b> Renato Tinos	
Lunch		
13:30 – 13:50	<b>The Use of Deep Learning to Support Math Teaching and Learning for the Blind</b> Luiz Oscar Topin, Regina Barwaldt, Joelson Sartori Junior, Bruna dos Santos Freitas	Room 1
13:50 - 14:10	<b>Impact of facial expressions on the accuracy of a CNN performing periorcular recognition</b> Rodolfo Dalapicola, Raissa Queiroga, Carolina Ferraz, Tamiris Trevisan Negri Borges, José Hiroki Saito, Adilson Gonzaga	
14:10 – 14:30	<b>Analyzing the Effect of Stochastic Transitions in Policy Gradients in Deep Reinforcement Learning</b> Ângelo G. Lovatto, Leliane Nunes de Barros, Thiago P. Bueno	
14:30 – 14:50	<b>Image-based Electric Consumption Recognition via Multi-task Learning</b> Ricardo Marques, João Diniz, Arthur Costa Serra, João Vitor Ferreira França, Geraldo Braz Junior, João Almeida, Marcia Izabel Alves da Silva, Eliana Marcia Garros Monteiro	
14:50 – 15:00	<b>Recurrent Neural Network Based on Statistical Recurrent Unit for Remaining Useful Life Estimation</b> André Ribeiro de Miranda, Talles M. G. de Andrade Barbosa, André G. Scolari Conceição, Symone G. Soares Alcalá	
15:10 – 16:10	<b>Keynote: A History of Research: Textual and Terminological Accessibility in Public Utility Texts in Brazil</b> Speaker : Maria José Bocorny Finatto	
Coffee Time!		
16:30 – 17:30	<b>Industry Panel</b> SSP-BA, B2W, Athos, Corteva, SECTI-BA	
17:40 – 19:30	<b>Meeting of the CEIA and CEIC</b>	
20:00 – 23:00	<b>Conference Cocktail @ RV Lounge</b>	

Time	Wednesday 16	
	Session B8	
	Computational Intelligence	
	Session chair: Ricardo Prudencio	
08:00-08:20	<b>Analyzing Electoral Donations Through Congress Ideological Segmentation</b>	Room 2
	Lênon Guimarães	
08:20-08:40	<b>A Comparison Study on Time Series Forecasting Given SmartGrid Load Uncertainties</b>	
	Diego Arize, Tatiane Nogueira	
08:40-09:00	<b>Laplacian using Abstract State Transition Graphs:A Framework for Skill Acquisition</b>	
	Matheus Mendonça, Artur Ziviani, André Barreto	
09:00-09:20	<b>Collision Detection with Monocular Vision for Assisting in Mobility of Visually Impaired People</b>	
	Alexsander Canez, Joelson Sartori junior, Regina Barwaldt, Ricardo Rodrigues	
09:20-09:40	<b>A biased random-key genetic algorithm for the traffic counting location problem</b>	
	Fabricio Torquato Leite, Lucas Dutra, André Carneiro e Johannes Lochter	
09:40-10:00	<b>Particle Swarm Localization for Mobile Robots using a 2D Laser Sensor</b>	Room 2
	João Luiz Carneiro Carvalho, Paulo César Machado de Abreu Farias, Edmar Egidio Purcino de Souza, Eduardo Furtado de Simas Filho	
Coffee Time!	Session E4	
	Natural Language Processing	
	Session Chair: Fabio Gagliardi Cozman	
10:10 – 10:30	<b>Evaluating Regression Algorithms for Automatic Text Summarization in Brazilian Portuguese</b>	
	Lucas Camargo Sodr�e e Hil�rio Tomaz de Oliveira	
10:30 – 10:50	<b>Evaluating Ontology Development from the Extraction of Noun Phrases</b>	
	Alcione Oliveira, Alexandra Moreira e Jugurta Lisboa Filho	
10:50 – 11:10	<b>Evaluating Vector Representations from User's Reviews in a Recommendation Task</b>	
	Vitor Tonon, Tiago Pinho da Silva, V�nicius Silva, Gean Pereira e Solange Rezende	
11:10 – 11:30	<b>An empirical comparison of distance/similarity measures for Natural Language Processing</b>	Room 2
	Dimmy Magalh�es, Aurora Pozo e Roberto Santana	
	<b>Winograd Schemas in Portuguese</b>	

11:30-11:50	Thiago Medeiros Carvalho, Gabriel Lins Tenório, Marley M. B. R. Vellasco, Karla Figueiredo e Wouter Caarls	
11:50 – 12:10		
Lunch	Session E6	
	Fundamentals of Artificial Intelligence / Decision Support Systems / MAS I	
	Session Chair: Jaime Sichman	
13:30 – 13:50	<b>Multiagent Simulation for Water Pollution Control</b> Bruna Leitzke, Letiane Pereira e Diana Adamatti	Room 2
13:50 - 14:10	<b>Comparative Analysis of Evaluation Functions for Minimax with Alpha-Beta Pruning Applied to the Jaguar Game</b> Felipe Nascimento e Elloá B. Guedes	
14:10 – 14:30	<b>Sport Analytics A Systematic Review</b> Jair Bogo, Janine Freitas de Oliveira, Elivelton Lima, Rafael Ferreira Mello e Ana Paula Furtado	
14:30 – 14:50	<b>Recipe Recommendation and Generation Based on Ingredient Substitution</b> Emilia Oliveira, Larissa Britto, Luciano Pacífico e Teresa Ludermir	
15:10 – 16: 10	<b>Keynote: A History of Research: Textual and Terminological Accessibility in Public Utility Texts in Brazil</b> Speaker : Maria José Bocorny Finatto	
Coffee Time!		
16:30 – 17:30	<b>Industry Panel</b> SSP-BA, B2W, Athos, Corteva, SECTI-BA	
17:40 – 19:30	<b>Meeting of the CEIA and CEIC</b>	
20:00 – 23:00	<b>Conference Cocktail @ RV Lounge</b>	

Time	Wednesday 16		Room 3
	Session S2		
	Applications		
	Session chair: Ricardo Prudencio		
08:00-08:20	<b>Aplicação de Reconhecimento de Entidades Nomeadas em investigação de Crimes Financeiros</b>	Fabio Silva (PUCRS - Brazil), Renata Vieira (Pontifícia Universidade Católica do Rio Grande do Sul - Brazil)	
08:20-08:40	<b>Deteccção Automática dos Heterônimos de Fernando Pessoa por Aprendizado de Máquina</b>	Hugo Abonizio (Programa de Pós-Graduação em Ciência da Computação da UEL - Brazil), Cinthyan Renata Barbosa (UEL - Universidade Estadual de Londrina - Brazil), Arthur Artoni (State University of Londrina - Brazil)	
08:40-09:00	<b>Atribuição Autoral em Blogs e Redes Sociais</b>	João Martins (University of Sao Paulo - Brazil), José Custódio (University of Sao Paulo - Brazil), Ivandré Paraboni (USP Leste - Brazil)	
09:00-09:20	<b>Reavaliando o dicionário LIWC português: o caso do reconhecimento de traços de personalidade e gênero autoral</b>	Ricelli Ramos (University of Sao Paulo - Brazil), Ivandré Paraboni (USP Leste - Brazil)	
09:20-09:40	<b>Avaliação Extrínseca de Analisadores de Dependência através da Extração de Informação Aberta</b>	Maurício Wanderley (Universidade Federal da Bahia - Brazil), Leandro Oliveira (Universidade Federal da Bahia), Daniela Barreiro	
09:40-10:00			
Coffee Time!	Session E5		
	Runners up Best paper Main track		
	Evaluation Board: Solange Rezende, Tatiane Nogueira		
10:10 – 10:30	<b>Algoritmo Exato de Avaliação de uma Política Estacionária para CVaR MDP</b>	Denis Pais, Valdinei Freire e Karina Valdivia-Delgado	
10:30 – 10:50	<b>Face Slicing on Facial Recognition: An Action Units Based Investigation of the Possible Improvements by Selecting the Face Regions in a Point Cloud 3D Data</b>	Patricia Jamile Martins, José Soares e George The	
10:50 – 11:10	<b>Hybrid Greedy Genetic Algorithm for the Euclidean Steiner Tree Problem</b>	Andrey Oliveira, Danilo Sanches e Bruna Osti	

11:10 – 11:30	<b>Combating Fake News on Social Media by Implicit Crowd Signals</b>	
	Paulo Freire e Ronaldo Goldschmidt	
11:30-11:50	<b>Assessing Regression-Based Sentiment Analysis Techniques in Financial Texts</b>	
	Taynan Maier Ferreira, Francisco Caio Lima Paiva, Roberto Fray da Silva, Angel De Paula, Anna Costa e Carlos Cugnasca	
11:50 – 12:10	<b>Angel De Paula, Anna Costa e Carlos Cugnasca</b>	
Lunch	<b>Session JDP 2</b>	
	<b>Session Chair: Lilian Cristine Hübner</b>	
13:30 – 13:50	<b>Dicionário Bidirecional Inglês-Português de Colocações Verbais</b>	Room 3
	Stella E. O. Tagnin	
13:50 - 14:10	<b>Quantificando (e qualificando) o sujeito oculto em português</b>	
	Claudia Freitas, Elvis de Souza and Luisa Rocha	
14:10 – 14:30	<b>Discriminação de palavras e efeitos da variação linguística</b>	
	Raquel Meister Ko. Freitag and Victor Rene Andrade Souza	
14:30 – 14:50	<b>(Re)começando a discutir as locuções verbais</b>	
	Elvis de Souza and Cláudia Freitas	
15:10 – 16: 10	<b>Keynote: A History of Research: Textual and Terminological Accessibility in Public Utility Texts in Brazil</b>	
	Speaker : Maria José Bocorny Finatto	
Coffee Time!		
16:30 – 17:30	<b>Industry Panel</b>	
	SSP-BA, B2W, Athos, Corteva, SECTI-BA	
17:40 – 19:30	<b>Meeting of the CEPLN</b>	
20:00 – 23:00		

<b>Wednesday 16</b>			
Time	Session B9		
	Optimization Algorithms I		
	Session chair: Aurora Pozo		
	08:00-08:20	<b>An Efficient Algorithm for the Tabu Clustered Traveling Salesman Problem</b> Edson Lopes da Silva Junior, Vinicius Alberto Alves da Silva, Luciana Brugiolo Gonçalves, Lorenza Leão Oliveira Moreno, Stênio São Rosário Furtado Soares	Room 4
08:20-08:40	<b>Action Scheduling Optimization using Cartesian Genetic Programming</b> Marco André Abud Kappel		
08:40-09:00	<b>Quota Traveling Salesman with Passengers and Collection Time</b> Thiago Soares Marques, Sidemar Fideles Cezario, Elizabeth Ferreira Gouvêa Goldberg, Marco César Goldberg, Sílvia Maria Diniz Monteiro Maia		
09:00-09:20	<b>TSchainRad: a new Tabu Search-based matheuristic for IMRT optimization</b> Luis Tertulino, Sílvia Maia, Elizabeth Goldberg, Marco Goldberg		
09:20-09:40	<b>On updating probabilistic graphical models in Bayesian Optimisation Algorithm</b> Mohamed El Yafrani, Marcella Scoczynski, Myriam Delgado, Ricardo Lüders, Inkyung Sung, Markus Wagner, Diego Oliva		
09:40-10:00	<b>A GPU-based Hybrid jDE Algorithm Applied to the 2D-AB Protein Structure Prediction Problem</b> Rafael Parpinelli, Mateus Boiani, Gabriel Dominico		
Coffee Time!	Session B11 Data Mining I Session chair: Teresa Ludermir	Room 4	
10:10 – 10:30	<b>A multilevel approach for building location-based social network by using stay points</b> Diego Minatel, Vinícius Ferreira, Alneu Lopes		
10:30 – 10:50	<b>A scalability approach based on multilevel optimization for link prediction methods</b> ViníciusFerreira, Alneu Lopes, Alan Valejo		
10:50 – 11:10	<b>A Multivariate Method for Group Profiling Using Subgroup Discovery</b> Tarcísio Lucas, João Ambrósio Gomes, Renato Vimieiro, Ricardo Prudêncio, Teresa Ludermir		
11:10 – 11:30	<b>Towards meta-learning for multi-target regression problems</b> Gabriel Aguiar, Everton Santana, Saulo Martiello Mastelini, Rafael Gomes Mantovani, Sylvio Barbon Junior		
11:30-11:50	<b>Self-Adaptive Appearance-Based Eye-Tracking with Online Transfer Learning</b>		

	Bruno Klein Salvalaio, Gabriel de Oliveira Ramos	
11:50 – 12:10	<b>Using social group trajectories for potential impersonation detection on smart buildings access control</b>	
	Gabriel Mariano de Castro Silva, Jaime Simão Sichman	
Lunch	Session B13	
	Natural Language Processing II	
	Session Chair: Fábio Cozman	
13:30 – 13:50	<b>Automatic Summarization of Technical Documents in the Oil and Gas Industry</b>	Room 4
	João Marcos Correia Marques, Fábio Cozman, Ismael Santos	
13:50 - 14:10	<b>Assessing the Impact of Contextual Embeddings for Portuguese Named Entity Recognition</b>	
	Joaquim Santos, Bernardo Consoli, Cícero dos Santos, Juliano Terra, Sandra Collovini, Renata Vieira	
14:10 – 14:30	<b>FaQuAD: Reading Comprehension Dataset in the Domain of Brazilian Higher Education</b>	
	Hélio Fonseca Sayama, Anderson Viçoso de Araujo, Eraldo Rezende Fernandes	
14:30 – 14:50	<b>Dialogue Management with Deep Reinforcement Learning: Balancing Exploration and Exploitation</b>	
	Bruno Nishimoto, Anna Costa	
14:50 – 15:10	<b>Combining Labeled Datasets for Sentiment Analysis from Different Domains Based on Dataset Similarity to Predict Electors Sentiment</b>	
	Jessica Soares dos Santos, Aline Paes, Flavia Bernardini	
15:10 – 16: 10	<b>Keynote: A History of Research: Textual and Terminological Accessibility in Public Utility Texts in Brazil</b>	
	Speaker : Maria José Bocorny Finatto	
Coffee Time!		
16:30 – 17:30	<b>Industry Panel</b>	
	SSP-BA, B2W, Athos, Corteva, SECTI-BA	
17:40 – 19:30	<b>KDD</b>	
20:00 – 23:00		

<b>Thursday 17</b>		
Time	Session B14	
	Agents and Multi-agent Systems	
	Session chair: Anna Helena Reali Costa	
08:00-08:20	<b>An efficient kick strategy for agents in the 2D Simulation League</b> João Pedro Figueirôa Nascimento, Rosalvo Ferreira de Oliveira Neto, Lourinaldo Júnior Macário Amorim	Room 1
08:20-08:40	<b>Argumentation-based Agents that Explain their Decisions</b> Mariela Morveli-Espinoza, Ayslan Possebom, Cesar Tacla	
08:40-09:00	<b>Promoting Reusability and Extensibility in the Engineering of Domain-specific Conversational Systems</b> Pedro Velmovitsky, Marx Viana, Elder Cirilo, Ruy Milidiú, Plinio Morita, Carlos Lucena	
09:00-09:20	<b>Building Self-Play Curricula Online by Playing with Expert Agents in Adversarial Games</b> Felipe Leno Da Silva, Anna Helena Reali Costa, Peter Stone	
09:20-09:40	<b>Social Analysis of Game Agents: How Trust and Reputation can improve Player Experience</b> Lucas Carneiro, Joao Carlos da Silva, Carla Delgado	
09:40-10:00	<b>Towards an Organisation-Centred Semantics for Argumentation-Based Dialogues</b> Alison R. Panisson	
Coffee Time!	Session B16 Bioinformatics and biomedical engineering Chair session: André Carvalho	
10:10 – 10:30	<b>Toward in loco Cancer Therapy by Biomolecular Computer</b> Ana Paula Rozeno Rodrigues, Reginaldo da Silva Filho	
10:30 – 10:50	<b>Selecting the Most Relevant Features for the Identification of Long Non-Coding RNAs in Plants</b> Robson Parmezan Bonidia, André Ponce de Leon F de Carvalho, Alexandre Paschoal, Danilo Sanches	
10:50 – 11:10	<b>A Random Forest Classifier for Prokaryotes Gene Prediction</b> Raíssa Silva, Kleber Souza, Fabiana Góes, Ronnie Alves	
	<b>A deep learning approach to detect hyoid bone in ultrasound exam</b>	

11:10 – 11:30	Marília Karla Soares Lopes, Cecília Silva, Lucas Lima, Douglas Felizardo Lira Lima, Bianca Costa, Desiré Magalhães, Darlyane de Souza Barros Rodrigues, Thaís Gaudêncio do Rêgo, Leandro Pernambuco, Ary Santos	
11:30-11:50	<b>Pill Image Classification using Machine Learning</b>	
	Luan Sousa Cordeiro, Joyce Lima, Antonio Iedo Ribeiro, Nivando Bezerra, Pedro Pedrosa Rebouças Filho, Ajalmar Rocha Neto	
11:50 – 12:10	<b>Hyperparameter Tuning and its Effects on Cardiac Arrhythmia Prediction</b>	
	Renan Andrades, Mateus Grellert, Mateus Fonseca	
Lunch		
Coffee Time!	Session B18	
	Clustering Techniques	
	Chair session: Leonardo Emmendorfer	
13:30 – 13:50	<b>A Temporal Clustering Algorithm for Achieving the trade-off between the User Experience and the Equipment Economy in the Context of IoT</b>	
	Caio Ponte, Carlos Caminha, Rafael Bomfim, Ronaldo Moreira, Vasco Furtado	
13:50 – 14:10	<b>Community Detection to Invariant Pattern Clustering in Images</b>	
	Lusmar Mendes, Murillo G. Carneiro	Room 1
14:10 – 14:30	<b>K-factor: Using the Frequency Factor for Clustering Categorical</b>	
	Robespierre Pita, Gabriela Borges, Nívea Silva, Daniela Almeida, Rosemeire Fiaccone, Marcos Barreto	
15:30 – 14:50	<b>An Empirical Evaluation of Two Novel Linkage Criteria for Hierarchical Agglomerative Clustering Data</b>	
	Leonardo Emmendorfer	
14:50 – 15:10	<b>Using Clustering in Eye-tracking Calibration Task</b>	
	Adrien Brilhault, Sergio Neuenschwander, Ricardo Rios	
15:10 – 16:10	<b>Keynote: Planning for Large-Scale Multi-Robot Systems</b>	
	Speaker: Sven Koenig	
Coffee Time!	Session B20	
	Knowledge Representation and Reasoning II	
	Chair session: Renata Vieira	
16:30 – 16:50	<b>Can NetGAN be improved by short random walks originated from dense vertices?</b>	
	Vinicius F. Caridá, Alex Mansano, Rogers Cristo, Amir Jalilifard	

16:50 – 17:10	<b>Development of Criminal Ontologies to Enhance Situation Assessment</b> Jordan Ferreira Saran, Leonardo Castro Botega	Room 1
17:10 – 17:30	<b>Probabilistic multilateration: Model and inference</b> Daniel Vasconcelos, Amauri Holanda Souza Junior, Francesco Corona	
17:30 – 17:50	<b>Explainable Machine Learning for Breast Cancer Diagnosis</b> Leon Ferreira de Carvalho	
17:50 – 18:10	<b>semantic relations in a never-ending learning system</b> Lucas Bruno	
18:10 – 18:30	<b>Generalized Iterated Belief Change in Dynamic Epistemic Logic</b> Marlo Souza, Alvaro Moreira, Renata Vieira	

<b>Thursday 17</b>		
Time	Session E7	
	Text and Web Mining	
	Session chair: Solange Rezende	
08:00-08:20	<b>Human Values Classification in Social Network Using Machine Learning</b>	Room 2
	Sergio Ewerton Barbosa Correia, Yuri Malheiros, Anderson Mesquita do Nascimento e Valdiney Veloso Gouveia	
08:20-08:40	<b>Disability-Related News: An Analysis of User-Generated Content on Social Media Posts</b>	
	Lucas Rodrigues, Ademir Junior e Fabio Lobato	
08:40-09:00	<b>Detecting Suicidal Ideation on Tweets</b>	
	Vinícius Cardoso , Roberta Sinoara, Solange Rezende, Dario Calçada e Phillipi Silva	
09:00-09:20	<b>Improving distributed vector representation of short and noisy texts in the context of online classification</b>	
	Renato Silva, Johannes Lochter e Tiago Almeida	
09:20-09:40	<b>Automatic Identification of Postings Related to the Use Through Deep Learning Models</b>	Room 2
	Hismael Costa de Oliveira, Alexandre Arruda e Marília Mendes	
09:40-10:00		
	Session E8	
Coffee Time!	Runners Up Best Paper Undergrad Track Evaluation Board: Anne Magaly de Paula Canuto, Leliane Nunes de Barros e Ricardo Bastos C. Prudencio	
10:10 – 10:30	<b>Neural network used in Energy Function of Content-aware Image Resizing method to preserve skin color region.</b>	Room 2
	Savio Rabelo, Tamara Pereira, Nivando Bezerra e Saulo Oliveira	
10:30 – 10:50	<b>Adoption of Feature Selection as Anti-phishing Mechanism: Applicability and Impacts</b>	
	Mateus Barros, Carlo Silva e Péricles Miranda	
10:50 – 11:10	<b>A Lyric-Based Approach for Brazilian Music Knowledge Discovery: Brazilian Country Music as a Case Study</b>	
	Jorge Silva Junior, Rafael Rossi e Fabio Lobato	
11:10 – 11:30	<b>Faithfully Explaining Predictions of Knowledge Embeddings</b>	
	Gustavo Polleti e Fábio Cozman	

11:30-11:50	<b>A Multi-document Summarization System for News Articles in Portuguese using Integer Linear Programming</b>	
	Laerth Bruno Brito Gomes e Hilário Tomaz de Oliveira	
11:50 – 12:10		
Lunch	Session E9	Room 2
	Machine Learning Theory	
	Session Chair: Tiago A. Almeida	
13:30 – 13:50	<b>Sequencing Sampling Algorithms to Boost Performance of Classifiers on Imbalanced Data Sets</b>	
	Gian Barbosa, Péricles Miranda, Ricardo Silva e Rafael Ferreira Mello	
13:50 - 14:10	<b>Combining active learning and graph-based semi-supervised learning</b>	
	Jhonatan de Paula Candao e Lilian Berton	
14:10 – 14:30	<b>Active Learning in Data Stream with Intermediate Latency</b>	
	Pedro Parreira e Ronaldo Prati	
14:30 – 14:50	<b>Solução de Regressão Regularizada com Vetores Suporte através de Programação Linear</b>	
	Lucas Teixeira e Raul Fonseca Neto	
15:10 – 16: 10	<b>Keynote: Planning for Large-Scale Multi-Robot Systems</b>	
	Speaker : Dr. Sven Koenig	
Coffee Time!	Session E10	
	Computer Vision	
	Session Chair: Teresa Ludemir	
16:30 – 16:50	<b>Classification of Weeds in Agricultural Crops with Ensembles of Convolutional Neural Networks</b>	Room 2
	Vitor Carvalho, Elloá B. Guedes e Marcos Salame	
16:50 – 17:10	<b>Classifying Glycemic Index from Food Images with Convolutional Neural Networks</b>	
	Jailson Pereira Januário, Elloá B. Guedes e Fabio Santos da Silva	
17:10 – 17:30	<b>An Automatic Leaf Classification System Based on Shape Features</b>	
	Larissa Britto, Luciano Pacífico e Teresa Ludemir	
17:30 – 17:50	<b>Supervised Methods Applied to the Construction of a Vision System for the Classification of Cocoa Beans in the Cut-Test</b>	

	Felipe Antunes, Anne Canuto, Benjamin Bedregalm, Eduardo Palmeira e Iaslan Silva
17:50 – 18:10	<b>Improving Monte Carlo Localization Performance Using Strategic Navigation Policies</b>
	Henrique José Ferreira Júnior e Daniel Figueiredo

Time	Thursday 17	
	Tutorial STIL	
08:00-10:00	<b>A History of Research: Textual and Terminological Accessibility in Public Utility Texts in Brazil</b>	
	Speaker: Maria José Bocorny Finatto	
Coffee Time!	Tutorial STIL	
10:10 – 12:10	<b>Modelos de Linguagem (Word Embeddings)</b>	
	Speaker: Renata Vieira and Joaquim Santos	
Lunch		
Coffee Time!	TILIC	
13:30 – 15:10		
15:10 – 16:10	<b>Keynote: Planning for Large-Scale Multi-Robot Systems</b>	
	Speaker: Sven Koenig	
Coffee Time!	Session B21	
	Deep Learning Applications II	
	Chair session: Bruno Vicente Alves de Lima	
16:30 – 16:50	<b>Mobile system to aid in the identification and classification of electrical assets using Convolutional Neural Network</b>	
	Pedro Pedrosa Rebouças Filho, João Wellington Mendes de Souza, Leandro Marinho, Gabriel Holanda, Harison Silva, Alvaro Afonso Furtado Leite, Thais Bandeira, Antonio Wendell Rodrigues	
16:50 – 17:10	<b>Residual MLP Network for Mental Fatigue Classification in Mining Workers from Brain Data</b>	
	Ana Siravenha, Mylena Ferreira, Iraquitan Cordeiro Filho, Renan Arthur Tourinho, Bruno Gomes, Schubert Carvalho	
17:10 – 17:30	<b>Image Processing with Convolutional Neural Networks for Classification of Plant Diseases</b>	
	Vanessa Castro Rezende, Michel Victor Carvalho Costa, Adam Santos, Roberto Celio Limão de Oliveira	
17:30 – 17:50	<b>Semantic Segmentation of Static and Dynamic Structures of Marina Satellite Images using Deep Learning</b>	
	Matheus Machado dos Santos, Giovanni Giacomo, Paulo Lilles Jorge Drews-Jr, Silvia Silva da Costa Botelho	

Room 3

Room 3

Room 3

Room 3

17:50 – 18:10	<p><b>Semi-supervised Classification Using Deep Learning</b></p> <p>Bruno Vicente Alves de Lima, Adrião Duarte Dória Neto, Lúcia Emília Soares Silva, Vinícius Ponte Machado, João Guilherme Cavalcanti Costa</p>
18:10 – 18:30	<p><b>Statistical and Deep Learning Models for Forecasting Drug Distribution in the Brazilian Public Health System</b></p> <p>Renan M. Sousa, Skander Hannachi, Guilherme N. Ramos</p>

<b>Thursday 17</b>			
Time	Session B15		
	Optimization Algorithms II		
	Session chair: Gina Oliveira		
	08:00-08:20	<b>Decision Variable Learning</b> Matheus Santos Almeida, Joel Oliveira, André Britto	Room 4
08:20-08:40	<b>Combining Fitness Landscape Analysis and Adaptive Operator Selection in Multi and Many-objective Optimization</b> Josiel Kuk, Richard Gonçalves, Aurora Pozo		
08:40-09:00	<b>Q-NAS revisited: exploring evolution fitness to improve efficiency</b> Daniela Szwarzman, Daniel Salles Civitarese, Marley M. B. R. Vellasco		
09:00-09:20	<b>Bio-inspired Algorithms for Many-Objective Discrete Optimization</b> Luiz Martins, Tiago França, Gina Oliveira		
09:20-09:40	<b>An Urban Pigeon-Inspired Optimiser for Unconstrained Continuous Domains</b> Sergio Rojas-Galeano, Angie L. Blanco, Nathalia Chaparro		
09:40-10:00	<b>Evolutionary Algorithms with Constraint Handling for the Hydroelectric Dispatch Planning</b> Eduardo Marcondes, Bruno Zanette, Peter Perroni, Daniel Weingaertner		
Coffee Time!	Session B17		Room 4
	Data mining and Natural Language Processing Session chair: Paulo J. L. Adeodato		
10:10 – 10:30	<b>Exploiting Geographical Data to improve Recommender Systems for Business Opportunities in Urban Areas</b> Vinícius Ferreira, Alan Valejo, Paola Valdivia, Jorge Valverde-Rebaza		
10:30 – 10:50	<b>Data mining solution for assessing the secondary school students of Brazilian Federal Institutes</b> Rogério Luiz C. Silva Filho, Paulo J. L. Adeodato		
10:50 – 11:10	<b>ML-MDLText: A Multilabel Text Categorization Technique with Incremental Learning</b> Marciele M. Bittencourt, Renato M. Silva, Tiago A. Almeida		
11:10 – 11:30	<b>Evaluating One-Class Classifiers for Fault Detection in Hard Disk Drives</b> Francisco Pereira, Daniel Teixeira, João Paulo Pordeus, Javam Machado		
11:30-11:50	<b>Fake News Detection Using One-Class Classification</b> Pedro Faustini, Thiago Covoos		
11:50 – 12:10	<b>Using Historical Information of Patients for Prior Authorization Learning</b>		

11:50 – 12:10	Karoline de Moura Farias, Pedro Santos Neto, Andre Macedo Santana, Ranulfo Plutarco Bezerra Neto	
Lunch	Session B19	
	Neural Networks	
	Session Chair: Solange Rezende	
13:30 – 13:50	<b>A Electric Network Reconfiguration Strategy with Case-Based Reasoning for the Smart Grid</b> Flavio Calhau, Joberto Martins	Room 4
13:50 - 14:10	<b>Improving Recommendations by Using a Heterogeneous Network and User's Reviews</b> Vitor Tonon, Cintia Oliveira, Daniele Oliveira, Alneu Lopes, Roberta Sinoara, Ricardo Marcacini, Solange Rezende	
14:10 – 14:30	<b>A Network-Based Model for Optimizing Returns in the Stock Market</b> Tiago Colliri, Liang Zhao	
14:30 – 14:50	<b>Analytical calculation of hidden layer biases in extreme learning machines with sinusoidal activation function</b> Matheus Rocha Barbosa, Luis Gustavo Souza	
14:50 – 15:10	<b>A Sampling-based Framework for Transductive Classification in Information Networks</b> Bruce Neves Santos, Ricardo M. Marcacini, Solange O. Rezende	
15:10 – 16: 10	<b>Keynote: Planning for Large-Scale Multi-Robot Systems</b> Speaker : Dr. Sven Koenig	
Coffee Time!	Session B22	
	Image processing applications	
	Session Chair: João C Xavier-Junior	
16:30 – 16:50	<b>Meta-Data Construction for Selection of Breast Tissue Biopsy Slides Image Classifier to Identify Ductal Carcinoma</b> Luis F. Marin, Aristófanés C. Silva, João O. Bandeira	Room 4
16:50 – 17:10	<b>Car Plate Character Recognition via Semi-Supervised Learning</b> João Pedro Kerr Catunda, André Tavares da Silva, Lilian Berton	
17:10 – 17:30	<b>Automatic Classification of Medicinal Plant Species Based on Color and Texture Features</b> Luciano Pacífico, Larissa Britto, Emilia Oliveira, Teresa Ludermir	
17:30 – 17:50	<b>Human Action Recognition using 2D Poses</b> Murilo Vargas da Silva, Aparecido Nilceu Marana	
17:50 – 18:10	<b>Expression removal in 3D faces for recognition purposes</b>	

17:50 – 18:10	Lucas Barbosa, Maurício Pamplona Segundo, Gabriel Dahia
18:10 – 18:30	<p><b>Analysis of machine learning techniques in fault diagnosis of vehicle fleet tracking modules</b></p> <p>Luis Henrique Meazzini Sepulvene, Rafael Frinhani, Bruno Kuehne, Fábio Preti, Stephan Reiff-Marganiec, Isabela Drummond, Bruno Batista</p>