**EPIA-2019 Program Overview**

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<th>Time</th>
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<td>08:00</td>
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**EPIA-2019 Detailed Program**

**Tuesday, September 3**

**BAAI - Business Applications of Artificial Intelligence**

Room: Auditório 1      Chair: Célia Talma

- **14:00** A Recommender System for Telecommunication Operators' Campaigns  
  Diogo Alves, Bruno Valente, Ricardo Filipe, Maria Castro and Luís Macedo

- **14:20** Improving the AHT in Telecommunication Companies by Automatic Modeling of Call Center Service  
  Henrique Neto, Rita Júlia, Elaine Paiva, André De Carvalho, Anisio Júnior, Diansley Peres, Etienne Júlia, Jony de Melo, Umberto Barcelos and Josiane de Assis

- **14:40** Comparing Machine Learning and Statistical Process Control for Predicting Manufacturing Performance  
  Sibusiso Khoza and Jacomine Grobler

- **15:00** Feature-based Time Series Classification for Service Request Opening Prediction in the Telecom Industry  
  Fabiola S. F. Pereira, André C. P. L. F. De Carvalho, Rafael Assis, Maxley Soares, Elaine R. Faria, Rita Júlia, Umberto Barcelos and Jony Melo

- **15:20** A Diversity Based Multi-objective Hyper-heuristic for the FJSP with Sequence-Dependent Set-Up Times, Auxiliary Resources and Machine Down Time  
  Jacomine Grobler

- **15:40** Sequence and Network Mining of Touristic Routes based on Flickr Geotagged Photos  
  Ana Silva, Pedro Campos and Carlos Ferreira
**GAI-1 - General Artificial Intelligence**

Room: Auditório 2  Chair: Paulo Novais

14:00  Determining emotional profile based on microblogging analysis
Ricardo Martins, Pedro Henriques and Paulo Novais

14:20  MNAR Imputation with Distributed Healthcare Data
Ricardo Cardoso Pereira, Miriam Seoane Santos, Pedro Pereira Rodrigues and Pedro Henriques Abreu

14:40  A Divide and Conquer Approach to Automatic Music Transcription using Neural Networks
André Gil, Carlos Grilo, Gustavo Reis and Patrício Domingues

15:00  Simple LSTM: A Deep-Learning Approach to Simple-Claims Classification
Piyush Chawla, Diego Esteves, Karthik Pujar and Jens Lehmann

15:20  Analysing the Footprint of Classifiers in Adversarial Denial of Service Contexts
Nuno Martins, José Cruz, Tiago Cruz and Pedro Abreu

15:40  The Regression Tsetlin Machine: A Tsetlin Machine for Continuous Output Problems
Kuruge D. Abeyrathna, Ole-Christoffer Granmo, Lei Jiao and Morten Goodwin

**TEMA-1 - Text Mining and Applications**

Room: Aula Magna  Chair: Joaquim Silva

14:00  Exploring textual features for multi-label classification of Portuguese film synopses
Giuseppe Portolese, Valeria Feltrim and Marcos A. Domingues

14:20  Using Recurrent Neural Networks for Semantic Role Labeling in Portuguese
Daniel H. M. Falci, Marco A. C. Soares, Wladmir C. Brandão and Fernando S. Parreiras

14:40  Evaluating Active Learning Sampling Strategies for Opinion Mining in Brazilian Politics Corpora
Douglas Vitório, Ellen Souza and Adriano L. I. Oliveira

15:00  Exploring Multi-label Stacking in Natural Language Processing
Rodrigo M. Nunes, Valéria D. Feltrim and Marcos A. Domingues

15:20  Exploring Emojis for Emotion Recognition in Portuguese texts
Luís Duarte, Hugo Oliveira and Luis Macedo

15:40  Improving the Classification of Q&A Content for Android Fragmentation using Named Entity Recognition
Adriano Rocha and Marcelo Maia
TEMA-2 - Text Mining and Applications
Room: Aula Magna      Chair: Joaquim Silva
16:30 Recognizing Humor in Portuguese: First Steps
André Clemêncio, Ana Alves and Hugo Gonçalo Oliveira
16:50 The Direct Path May Not Be The Best: Portuguese-Chinese Neural Machine Translation
Rodrigo Santos, João Silva, António Branco and Deyi Xiong
17:10 Using Recurrent Neural Networks for Toponym Resolution in Text
Ana Cardoso, Bruno Martins and Jacinto Estima

Wednesday, September 4
IROBOT - Intelligent Robotics
Room: Aula Magna      Chair: Nuno Lau
9:00 Online Optimization of Movement Cost for Robotic Applications of PSO
Sebastian Mai, Heiner Zille, Christoph Steup and Sanaz Mostaghim
9:20 Path planning algorithms benchmarking for grapevines pruning and monitoring
Sandro Magalhães, Filipe Santos, Rui Martins, Luís Rocha and José Brito
9:40 Monocular Visual Odometry Using Fisheye Lens Cameras
André Aguiar, Filipe Santos, Luís Santos and Armando Sousa
10:00 A Comparison Procedure for IMUs Performance
Tiago Mendonça, Diana Guimarães, António P. Moreira and Paulo Costa
10:20 Application of the Open Scalable Production System to Machine Tending of Additive Manufacturing operations by a Mobile Manipulator
Rafael Arrais, Tiago Ribeiro, Daniel Oliveira, Ramon Fernandes, André Conceição, Paulo Farias and Germano Veiga
10:40 Do You Trust Me? Investigating the Formation of Trust in Social Robots
Mojgan Hashemian, Raul Paradeda, Carla Guerra and Ana Paiva

SSM - Social Simulation and Modelling
Room: Auditório 1      Chair: Luís Antunes
9:00 Reflections on Social Simulation and Complexity
Helder Coelho
9:20 Emergency evacuation simulation in open air events using a floor field cellular automata model
Diony Strongylis, Charalampos Kouzinopoulos, Georgios Stavropoulos, Konstantinos Votis and Dimitrios Tzovaras
9:40 Agent-based Simulation of Local Soy Value Chains in Ghana
Tim Verwaart, Youri Dijkstra, Christine Plaisier and Coen van Wagenberg

**AIL - Artificial Intelligence and Law**
Room: Auditório 1 Chair: Pedro Freitas, Co-Chair: Massimo Durante
10:00 Learning from Monkeys: Authorship Issues arising from AI Technology
Jacopo Ciani
10:20 Legal Implications of Autonomous Vehicles: What We Know So Far and What’s Left to Work On
Beatriz Assunção Ribeiro, Helder Coelho, Elisabete F. E. Dias Pereira and João Branquinho
10:40 The role of Artificial Intelligence in the European e-Justice paradigm – suiting effective judicial protection demands
Joana Covelo de Abreu

**AIoTA-1 - Artificial Intelligence and IoT in Agriculture**
Room: Auditório 2 Chair: José Boaventura Cunha, Co-chair: Raul Morais
9:00 Vineyard segmentation from satellite imagery using machine learning
Luís Santos, Filipe N. Santos, Vitor Filipe and Pranjali Shinde
9:20 Estimation of vineyard productivity map using cost-effective LIDAR solution
Pedro Moura, Daniela Ribeiro, Filipe Neves dos Santos, Alberto Gomes, Ricardo Baptista and Mário Cunha
9:40 An Image-based Deep Learning Model for Cannabis Diseases, Nutrient Deficiencies and Pests Identification
Konstantinos Ferentinos, Myrto Barda and Dave Damer
10:00 Detection of Tomato Flowers from Greenhouse Images using Colorspace Transformations
Manya Afonso, Angelo Mencarelli, Gerrit Polder, Ron Wehrens, Dick Lensink and Nanne Faber
10:20 Metbots: Metabolomics Robots for Precision Viticulture
Rui Martins, Sandro Magalhães, Pedro Jorge, Teresa Barroso and Filipe Santos
10:40 Nature inspired metaheuristics and their applications in agriculture: A short review
Jorge Mendes, Paulo Moura Oliveira, Filipe Santos and Raul Morais

**KDBI - Knowledge Discovery and Business Intelligence**
Room: Auditório 1 Chair: Paulo Cortez
14:00 A Context-Aware Recommender Method based on Text Mining
Camila Vaccari Sundermann, Renan De Pádua, Vítor Rodrigues Tonon, Marcos Aurélio Domingues and Solange Oliveira Rezende

14:20 Using Neuroevolution for Predicting Mobile Marketing Conversion
Pedro Pereira, Pedro Pinto, Paulo Cortez, Rui Mendes and Antoine Moreau

14:40 Discovering Common Pathways Across Users' Habits in Mobility Data
Thiago Andrade, Brais Cancela and João Gama

15:00 Mining Exceptional Social Behaviour
Carolina Centeio-Jorge, Martin Atzmueller, Behzad M. Heravi, Jenny L. Gibson, Cláudio Rebelo de Sá and Rosaldo Rossetti

15:20 Extracting actionable knowledge to increase business utility in sport services
Paulo Pinheiro and Luís Cavique

**GAI-2 - General Artificial Intelligence**

Room: Aula Magna Chair: Luís Paulo Reis

14:00 Automatic Switching Between Video and Audio According to Users Context
Paulo Ferreira, João Cardoso and João Mendes-Moreira

14:20 An Adaptive and Transferable Dialog Management System for Social Aware Task Execution
Antonio Capela, Samuel Mascarenhas, Pedro Santos and Manuel Lopes

14:40 Energy Efficient Smartphone-based Users Activity Classification
Ricardo Magalhães, João Cardoso and João Mendes-Moreira

15:00 Learning Regularization Parameters of Radial Basis Functions in Embedded Likelihoods Space
Murilo V. Ferreira Menezes, Luiz C. Bambirra Torres and Antônio De Pádua Braga

15:20 Using Deep Learning Techniques for Authentication of Amadeo de Souza Cardoso Paintings and Drawings
Ailin Chen, Rui Jesus and Marcia Villarigues

**MASTA - MultiAgent Systems: Theory and Applications**

Room: Auditório 2 Chair: Henrique Lopes Cardoso

14:00 Self-adaptive Team of Aquatic Drones with a Communication Network for Aquaculture
Daniela Sousa, Susana Sargento, Artur Pereira and Miguel Luís

14:20 Assessment of Testability on Multiagent Systems Developed with Organizational Model Moïse
Eder Mateus Gonçalves, Bruno Coelho Rodrigues and Ricardo Arend
14:40  Fair Division Minimizing Inequality
       Martin Aleksandrov, Toby Walsh and Cunjing Ge
15:00  Semantic Web Services for Multi-Agent Systems Interoperability
       Alda Canito, Gabriel Santos, Juan Corchado, Goreti Marreiros and Zita Vale
15:20  Ising Model as a Switch Voting Mechanism in Collective Perception
       Palina Bartshevich and Sanaz Mostaghim

AmIA - Ambient Intelligence and Affective Environments
Room: Auditório 1    Chair: Goreti Marreiros
16:00  Analyzing User Experiences in Incorporated Fictionality
       Tatsuo Nakajima, Risa Kimura, Fumiko Ishizawa and Mizuki Sakamoto
16:20  The Influence of Age and Gender in the Interaction with Touch Screens
       Rodrigo Rocha, Davide Carneiro and Paulo Novais
16:40  Agent-based Education Environment in Museums
       Ichiro Satoh
17:00  Describing Interfaces in the framework of Adaptive Interface Ecosystems
       Antonio Sánchez, Elena Hernández Nieves, Sara Rodríguez, Fernando De La Prieta and
       Juan Manuel Corchado
17:20  A Conceptual Approach to Enhance the Well-Being of Elderly People
       Diogo Martinho, João Carneiro, Paulo Novais, José Neves, Juan Corchado and Goreti
       Marreiros
17:40  Blended Learning in Smart Learning Environments
       Peter Mikulecky
18:00  Facial virtual tracking: a system to mirror emotions
       Pedro Santos, Vinicius Silva, Filomena Soares and Alberto Simões

ALEA - Artificial Life and Evolutionary Algorithms
Room: Aula Magna    Chair: Ivo Gonçalves
16:00  Benchmarking Collective Perception: New Task Difficulty Metrics for Collective Decision-
       Making
       Palina Bartshevich and Sanaz Mostaghim
16:20  Maximum Search Limitations: Boosting Evolutionary Particle Swarm Optimization
       Exploration
       Mário Tasso Serra, Marco Mollinetti, Vladimiro Miranda and Leonel Carvalho
16:40  Interval Differential Evolution Using Structural Information of Global Optimization Problems
       Mariane Cassenote, Guilherme Derenievicz and Fabiano Silva

17:00  Hierarchical Classification of Transposable Elements with a Weighted Genetic Algorithm
       Gean Pereira, Paulo Gabriel and Ricardo Cerri

17:20  Comparison of Genetic Algorithms and Particle Swarm Optimization to Estimate Cluster-
       Based Kriging Parameters
       Carlos Takeshi Yasojima, Tiago Araujo, Bianchi Meiguins, Nelson Neto and Jefferson Morais

17:40  A 3-step Cartesian Genetic Programming for Designing Combinational Logic Circuits with
       Multiplexers
       Jose Eduardo da Silva and Heder Bernardino

18:00  Extending Local Search in Geometric Semantic Genetic Programming
       Mauro Castelli, Luca Manzoni, Luca Mariot and Martina Saletta

AIM - Artificial Intelligence in Medicine

Room:  Auditório 2  Chair: Manuel Filipe Santos

16:00  Heart Sounds Classification Using Images from Wavelet Transformation
       Diogo Nogueira, Mohammad Zarmehri, Carlos Ferreira, Alípio Jorge and Luís Antunes

       Nelson Nunes, Bruno Martins, Nuno André da Silva, Francisca Leite and Mário Silva

16:40  Named Entity Recognition in Portuguese Neurology Text using CRF
       Fábio Lopes, César Teixeira and Hugo Gonçalo Oliveira

17:00  Intelligent Control of an Exoskeleton for Rehabilitation Purposes using a ROS-based
       Software Architecture
       Nieves Pavon-Pulido, Juan Antonio López Riquelme and Jorge Feliu Batlle

17:20  Comparison of Conventional and Deep Learning based Methods for Pulmonary Nodule
       Segmentation in CT Images
       Joana Rocha, António Cunha and Ana Maria Mendonça

17:40  Intelligent Virtual Assistant for Promoting Behaviour Change in Older People with T2D
       João Balsa, Pedro Neves, Isa Félix, Mara Pereira Guerreiro, Pedro Alves, Maria Beatriz
       Carmo, Diogo Marques, António Dias, Adriana Henriques and Ana Paula Cláudio

18:00  Towards to use Image Mining to predict skin problems - A melanoma case study
       Pamela Coelho, Cláudio Gonçalves, Filipe Portela and Manuel Filipe Santos

Thursday, September 5
KRR - Knowledge Representation and Reasoning
Room: Auditório 1  Chair: Matthias Knorr  Co-chair: Ricardo Gonçalves
9:00  On Unordered BDDs and Quantified Boolean Formulas
Mikolas Janota
9:20  Using Summarization Techniques on Patent Database through Computational Intelligence
Cinthia Souza, Matheus Santos, Magali Meireles and Paulo Almeida
9:40  A Complete Planner for Temporal Answer Set Programming
Pedro Cabalar, Manuel Rey and Concepcion Vidal
10:00  An Argumentative Characterization of Disjunctive Logic Programming
Ofer Arieli and Jesse Heyninck
10:20  Computing Shortest Resolution Proofs
Carlos Mencía and Joao Marques-Silva
10:40  Forgetting in Answer-Set Programming with Anonymous Cycles
Matti Berthold, Ricardo Gonçalves, Matthias Knorr and Joao Leite

KDBI-2 - Knowledge Discovery and Business Intelligence
Room: Aula Magna  Chair: Luís Cavique
9:00  Online Clustering For Novelty Detection And Concept Drift in Data Streams
Kemilly Garcia, Mannes Poel, Joost Kok and André de Carvalho
Online Clustering For Novelty Detection And Concept Drift in Data Streams
9:20  Sibilant consonants classification with deep neural networks
Ivo Anjos, Nuno Marques, Margarida Grilo, Isabel Guimarães, João Magalhães and Sofia Cavaco
9:40  Visual Analysis of Regression Error
Inês Areosa and Luis Torgo
10:00  Discovering Analytical Preferences for Personalizing What-If Scenarios
Mariana Carvalho and Orlando Belo
10:20  Semantic Segmentation of High-Resolution Aerial Imagery with W-Net Models
Maria Dias, João Monteiro, Joel Silva, Jacinto Estima and Bruno Martins

AITS-1 - Artificial Intelligence in Transportation Systems
Room: Auditório 2  Chair: Rosaldo Rossetti
9:00  VDS Data-based Deep Learning Approach for Traffic Forecasting using LSTM Network
Hongsuk Yi and Khac-Hoai Nam Bui

9:20 A Reinforcement Learning Approach to Smart Lane Changes of Self-Driving Cars
Fangmin Ye, Long Wang, Yibing Wang, Jingqiu Guo, Ioannis Papamichail and Markos Papageorgiou

9:40 LSTM-Based Anomaly Detection: Detection Rules from Extreme Value Theory
Neema Davis, Gaurav Raina and Krishna Jagannathan

10:00 Neural Network based Large Neighborhood Search Algorithm for Ride Hailing Services
Arslan Ali Syed, Karim Akhnoukh, Bernd Kaltenhaeuser and Klaus Bogenberger

10:20 Predicting Air Compressor Failures Using Long Short Term Memory Networks
Kunru Chen, Sepideh Pashami, Yuantao Fan and Slawomir Nowaczyk

10:40 Travel Demand Forecasting: an Evolutionary Learning Approach
Chaima A. K. Djellab, Walid Chaker and Henda H. B. Ghezala

Friday, September 6

AITS-2 - Artificial Intelligence in Transportation Systems
Room: Auditório 1 Chair: Alberto Fernández

9:00 Camera Calibration for CNN based Generic Obstacle Detection
Radu Danescu and Razvan Itu

9:20 Counting Cars From Aerial Videos Using Deep Learning
Caio Polidoro, Wellington Castro, Jose Marcato, Geison Salgado Filho and Edson Matsuba

9:40 How the Quality of Call Detail Records Influences the Detection of Commuting Patterns
Joel Pires, Aldina Piedade, Marco Veloso, Santi Phithakkittunukoon, Zbigniew Smoreda and Carlos Bento

10:00 Warranty Claim Rate Prediction using Logged Vehicle Data
Reza Khoshkangini, Sepideh Pashami and Slawomir Nowaczyk

10:20 Anomaly Detection in Vehicle Traffic Data using Batch and Stream Supervised Learning
David Faial, Flavia Bernardini, Leandro Miranda and José Viterbo

10:40 Predicting the impact of text-reading using decision trees
Eftihia Nathanail, Panos Prevedouros, Md Mintu Miah and Rafaela De Melo Barros

AIPES-1 - Artificial Intelligence in Power and Energy Systems
Room: Aula Magna Chair: Tiago Pinto

9:00 Explorative Spatial Data Mining for Energy Technology Adoption and Policy Design Analysis
AIoTA-2 - Artificial Intelligence and IoT in Agriculture

Room: Auditório 2  Chair: Raul Morais Co-Chair: José Boaventura
9:00  On KNoT meta platform for IoT-based Control of Storage Grains
João Quaresma, Josenalde Oliveira and José Boaventura Cunha
9:20  Grapevine Varieties Classification Using Machine Learning
Pedro Marques, Luís Pádua, Telmo Adão, Jonáš Hruška, José Sousa, Emanuel Peres, Joaquim Sousa, Raul Morais and António Sousa
9:40  Cyberphysical network for crop monitoring and fertigation control
João Paulo Coelho, Higor Vendramini Rosse, José Boaventura-Cunha and Tatiana Martins Pinho
10:00  Soil Classification Based on Physical and Chemical Properties Using Random Forests
Didier Dias, Bruno Martins, João Pires, Luis de Sousa and Carlos Damásio
10:20  Low-cost IoT LoRa solutions for Precision Agriculture monitoring practices
Nuno Silva, Jorge Mendes, Renato Silva, Filipe Santos, Pedro Mestre, Carlos Serôdio and Raul Morais
10:40  A low-cost system to estimate Leaf Area Index combining Stereo Images and Normalized Difference Vegetation Index
Jorge Mendes, Vítor Filipe, Filipe Santos and Raul Morais

AI4GAMES - Artificial Intelligence for Games

Room: Auditório 1  Chair: Gustavo Reis  Co-Chair: Alberto Simões
15:00  Reinforcement Learning in Multi-Agent Games: Open AI Gym Diplomacy Environment
José Aleixo Cruz, Diogo Cruz and Henrique Lopes Cardoso

15:20 Voxel based Pathfinding with Jumping for Games
Gabriel Silva, Gustavo Reis and Carlos Grilo

15:40 Solving Motion and Action Planning for a Cooperative Agent Problem using Geometry Friends
Ana Salta, Rui Prada and Francisco Melo

16:00 Spatio-Temporal Attention Deep Recurrent Q-Network for POMDPs
Mariano Etchart, Pawel Ladosz and David Mulvaney

AIPES-2 - Dominoes Summer School
Room: Aula Magna  Chair: Zita Vale, Polytechnic of Porto, Portugal
15:00 To be announced.
15:20 Danial Esmaeli Aliabadi, Sabanci University, Turkey
15:40 Jan Segerdstam, Empower, Finland
16:00 José Sousa, Energias de Portugal. Distribuição (EDPD), Portugal

AIOTA-3 - Artificial Intelligence and IoT in Agriculture
Room: Auditório 2  Chair: Paulo Moura Oliveira  Co-Chair: Josenalde Barbosa
15:00 Classification of an Agrosilvopastoral System Using RGB Imagery From an Unmanned Aerial Vehicle
Luís Pádua, Nathalie Guimarães, Telmo Adão, Pedro Marques, Emanuel Peres, António Sousa and Joaquim João Sousa
15:20 Digital Ampelographer: a CNN based preliminary approach
Telmo Adão, Tatiana Pinho, António Ferreira, António Sousa, Luís Pádua, José Sousa, Joaquim João, Emanuel Peres and Raul Morais

AICPDES- Artificial Intelligence in Cyber-Physical and Distributed Embedded Systems
Room: Auditório 2  Chair: Thiago Rúbio
15:40 Leveraging Blockchain Smart Contracts Regulation With Agent-Based Markets
Thiago Rúbio, Zafeiris Kokkinogenis, Henrique Lopes Cardoso, Rosaldo Rossetti and Eugénio Oliveira
16:00 Machine learning for radar-based people detection
José Castanheira, Francisco Curado, Ana Tomé and Edgar Gonçalves

AIEd - Artificial Intelligence in Education
Combining Sentiment Analysis Scores to Improve Accuracy of polarity classification in MOOC posts
Herbert Laroca Pinto and Vitor Rocio

A Data Mining Approach Applied to the High School National Examination: Analysis of aspects of candidates to Brazilian Universities
Diego Rodrigues, Márcio Lima, Marcos Conceição, Vilson Siqueira and Rommel Barbosa

Between Clones and Snow-Flakes: Personalization in Intelligent Tutoring Systems
Francisco Azeiteiro and Manuel Lopes

Student Attention Evaluation System using Machine Learning for Decision Making
Dalila Durães

Hyper-Parameter Optimization of Multi-Attention Recurrent Neural Network for Battery State of Charge Forecasting
Aleksei Mashlakov, Ville Tikka, Lasse Lensu, Aleksei Romanenko and Samuli Honkapuro

Gradient boosting ensembles for predicting heating and cooling loads in building design
Leonardo Goliatt, Priscila V. Z. Capriles and Gisele Goulart Tavares

Short-term streamflow forecasting for Paraíba do Sul river using Deep Learning
Luciana Campos, Leonardo Goliatt, Tales Fonseca, Gabriel Abreu, Letícia Pires and Yulia Gorodetskaya

Contextual simulated annealing Q-learning for pre-negotiation of agent-based bilateral negotiations
Tiago Pinto and Zita Vale

Fair remuneration of energy consumption flexibility using Shapley value
Ricardo Faia, Tiago Pinto and Zita Vale