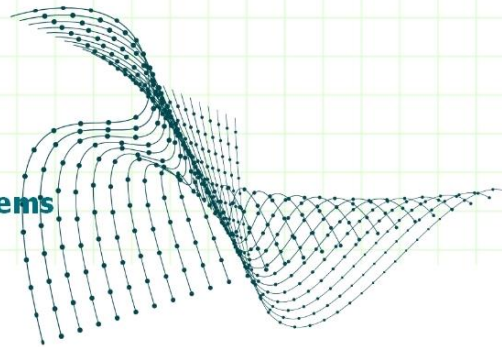




BRACIS 2021
Brazilian Conference on Intelligent Systems
November 29 to December 3, 2021



ACCEPTED PAPER – BRACIS 2021

A Kullback-Leibler divergence-based locally linear embedding method: a novel parametric approach for cluster analysis

Alexandre Levada (Universidade Federal de São Carlos - Brazil)

Michel Haddad (University of Cambridge - Great Britain)

Hyper-Heuristic based NSGA-III for the Many-Objective Quadratic Assignment Problem

Carolina Paula de Almeida (State University in the Midwest of Paraná - UNICENTRO - Brazil)

Bianca Namie Kague Senzaki (Universidade Estadual do Centro-Oeste (UNICENTRO) - Brazil)

Sandra Venske (UNICENTRO - Universidade Estadual do Centro-Oeste - Brazil)

Encoding Physical Conditioning from Inertial Sensors for Multi-step Heart Rate Estimation

Davi Pedrosa de Aguiar (Universidade Federal de Minas Gerais - Brazil)

Fabricio Murai (Universidade Federal de Minas Gerais - Brazil)

A Co-occurrence Based Approach for Mining Overlapped Co-clusters in Binary Data

Yuri Santos (Universidade Federal de Santa Catarina - Brazil)

Rafael de Santiago (Universidade Federal de Santa Catarina - Brazil)

Raffaele Perego (ISTI - CNR - Italy)

Matheus Schaly (Universidade Federal de Santa Catarina - Brazil)

Luis Otávio Alvares (UFSC - Brazil)

Chiara Renso (KDDLAB ISTI/CNR - Italy)

Vania Bogorny (Universidade Federal de Santa Catarina - Brazil)

De-identification of Clinical Notes Using Contextualized Language Models and a Token Classifier

Henrique dos Santos (Institute of Artificial Intelligence in Healthcare - Brazil)

Comparing contextual embeddings for semantic textual similarity in Portuguese

José Andrade (Universidade Federal do Rio Grande do Norte - Brazil)

Jonathan Cardoso-Silva (Data Science Brigade - Brazil)

Leonardo Bezerra (Universidade Federal do Rio Grande do Norte - Brazil)

Enriching Portuguese Word Embeddings with Visual Information

Bernardo Consoli (Pontifícia Universidade Católica do Rio Grande do Sul - Brazil)

Renata Vieira (Pontifícia Universidade Católica do Rio Grande do Sul - Brazil)

On the generalizations of the Choquet integral for application in FRBCs

Giancarlo Lucca (Universidade Federal do Rio Grande - Brazil)

Eduardo Borges (Universidade Federal do Rio Grande - Brazil)

Rafael Berri (FURG - Brazil)

Leonardo Emmendorfer (Universidade Federal do Rio Grande - Brazil)

Gracaliz Dimuro (Universidade Federal do Rio Grande - Brazil)

Tiago Asmus (Universidade Federal do Rio Grande - Brazil)

Detecting Early Signs of Insufficiency in COVID-19 Patients from CBC Tests Through a Supervised Learning Approach

Tiago Colliri (University of Fortaleza - Brazil)

Marcia Minakawa (Faculty of Public Health, University of Sao Paulo - Brazil)

Liang Zhao (Universidade de São Paulo - Brazil)

Anomaly Detection in Brazilian Federal Government Purchase Cards Through Unsupervised Learning Techniques

Breno Nunes (Brazilian Office of the Comptroller General (CGU) - Brazil)

Tiago Colliri (University of Fortaleza - Brazil)

Marcelo Lauretto (EACH-USP - Brazil)

Weiguang Liu (School of Computer Science, Zhongyuan University of Technology - P.R. China)

Liang Zhao (Universidade de São Paulo - Brazil)

Classifying Potentially Unbounded Hierarchical Data Streams with Incremental Gaussian Naive Bayes

Eduardo Tieppo (Pontifícia Universidade Católica do Paraná - PUCPR - Brazil)

Julio Cesar Nievola (PUCPR - Brazil)

Jean Paul Barddal (PPG1a - PUCPR - Brazil)

Speech2Phone: A Novel and Efficient Method for Training Speaker Recognition Models

Edresson Casanova (Universidade Tecnológica Federal do Paraná - Brazil)
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Coarsening Algorithm via Semi-Synchronous Label Propagation for Bipartite Networks

Alan Valejo (Universidade de São Carlos (UFSCar) - Brazil)
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Jianglong Yan (School of Computer Science, Zhongyuan University of Technology - P.R. China)
Liang Zhao (Universidade de São Paulo - Brazil)

MAS4GC: Multi-Agent System for Glycemic Control of Intensive Care Unit Patients

Tiago Segato (Instituto Federal de Brasília - IFB - Brazil),
Rafael Moura (Ifb - Brazil),
Sergio Fernandes (ESCS - Brazil),
Celia Ralha (University of Brasilia - Brazil)

A Deep Learning approach for Aspect Sentiment Triplet Extraction in Portuguese

Jose Melendez (Universidade de São Paulo - Brazil)
Glauber De Bona (Universidade de São Paulo - Brazil)

Aggressive Language Detection using VGCN-BERT for Spanish Texts

Errol Wilderd Mamani Condori (Universidad Catolica San Pablo - Peru)
Jose Eduardo Ochoa Luna (Universidad Católica San Pablo - Peru)
How to Generate Synthetic Paintings to Improve Art Style Classification Sarah Pires Pérez
(USP - Brazil)
Fábio Cozman (USP - Politécnica - Brazil)

An Empirical Study of Text Features for Identifying Subjective Sentences in Portuguese

Miguel de Oliveira (Universidade do Estado do Amazonas - Brazil)
Tiago de Melo (Universidade do Estado do Amazonas - Brazil)

Time-Dependent Item Embeddings for Collaborative Filtering

Pedro Pires (Federal University of São Carlos (UFSCar) - Brazil)

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Tiago Almeida (Federal University of Sao Carlos (UFSCar) - Brazil)

Tactical Asset Allocation through Random Walk on Stock Network Washington Burkart Freitas (FT-Unicamp - Brazil)

João Bertini (Universidade Estadual de Campinas - Brazil)

Optimizing Diffusion Rate and Label Reliability in a Graph-based Semi-supervised Classifier

Bruno de Aquino Afonso (Federal University of São Paulo - Brazil)

Lilian Berton (Universidade Federal de São Paulo - Brazil)

On the impact of MDP design for Reinforcement Learning agents in Resource Management

Renato Luiz de Freitas Cunha (IBM - Brazil)

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Evaluating Topic Models in Portuguese Political Comments about Bills from Brazil's Chamber of Deputies

Nádia Silva (Federal University of Goiás/ University of São Paulo - Instituto de Ciências Matemáticas e de Co - Brazil)

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Portuguese Neural Text Simplification using Machine Translation

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André Nascimento (Universidade Federal Rural de Pernambuco - Brazil)

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Péricles Miranda (UFRPE - Brazil)

Rafael Ferreira Mello (Universidade Federal Rural de Pernambuco - Brazil)

Tapas Si (Bankura Unnayani Institute of Engineering - India)

Fast Movelet Extraction and Dimensionality Reduction for Robust Multiple Aspect Trajectory Classification

Tarlis Tortelli Portela (Universidade Federal de Santa Catarina - Brazil)
Camila Leite da Silva (Universidade Federal de Santa Catarina - Brazil)
Jonata Tyska Carvalho (Universidade Federal de Santa Catarina - Brazil),
Vania Bogorny (Universidade Federal de Santa Catarina - Brazil)

When external knowledge does not aggregate in Named Entity Recognition

Pedro Privatto (UNESP - Brazil)
Ivan Guilherme (Unesp - Brazil)

Weapon Engagement Zone Maximum Launch Range Estimation Using Deep Neural Network

João Paulo de Andrade Dantas (Instituto de Estudos Avançados - Brazil)
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Diego Geraldo (Instituto de Estudos Avançados - Brazil)
Marcos R. O. A. Maximo (Aeronautics Institute of Technology - Brazil)
Takashi Yoneyama (Instituto Tecnológico de Aeronautica, ITA-IEE-IEES - Brazil)

Slot Sharing Mechanism in Multi-Domain Dialogue Systems

Bruno Nishimoto (University of Sao Paulo - Brazil)
Anna Costa (Universidade de São Paulo - Brazil)

Named Entity Recognition for Brazilian Portuguese Product Titles

Diego Furtado Silva (Universidade Federal de São Carlos - Brazil)
Alcides Silva (Universidade Federal de São Carlos - Brazil)
Bianca Lopes (Universidade Federal de São Carlos - Brazil)
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Daniel Lucrédio (UFSCar - Brazil)

Improving particle swarm optimization with self-adaptive parameters, rotational invariance, and diversity control.

Matheus Vasconcelos (Federal University of Pará - Brazil)
Caio Flexa (Federal University of Pará - Brazil)
Igor Matheus Moreira (Universidade Federal do Pará - Brazil)
Reginaldo Filho (Universidade Federal do Pará - Brazil)
Claodomiro Souza Junior (Universidade Federal do Pará - Brazil)

Intelligent Agents for Observation and Containment of Malicious Targets Organizations

Thayanne da Silva (Universidade Estadual do Ceará - Brazil)
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Leonardo Ferreira da Costa (Universidade Federal do Ceará - Brazil)
João Andrade (Universidade Federal do Ceará - Brazil)
Raimundo Ferro Junior (Universidade Estadual do Ceará - Brazil)
Gustavo Campos (Universidade Estadual do Ceará - Brazil)

Active Learning and Case-Based Reasoning for the Deceptive Play in the Card Game of Truco

Daniel Vargas (Universidade Federal de Santa Maria - Brazil)
Gustavo Paulus (Ifrs - Brazil)
Luis Alvaro de Lima Silva (Universidade Federal de Santa Maria - Brazil)

Experiments on Portuguese Clinical Question Answering

Lucas Oliveira (Pontifícia Universidade Católica do Paraná - Brazil)
Elisa Schneider (Pontifícia Universidade Católica do Paraná PUCPR - Brazil)
Yohan Bonescki Gumiel (Pontifícia Universidade Católica do Paraná (PUC-PR) - Brazil)
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Ontology based classification of electronic health records to support value-based health care

Avner Dal Bosco (PUCRS - Brazil)
Renata Vieira (Pontifícia Universidade Católica do Rio Grande do Sul - Brazil)
Ana Paula Etges (PUCRS - Brazil)
Bruna Stella Zanotto (UFRGS - Brazil)

Entity Relation Extraction from News Articles in Portuguese for Competitive Intelligence based on BERT

Daniel Guimarães (PUCRS - Brazil)
Douglas Trajano (PUCRS - Brazil)
Isabel Manssour (PUCRS - Pontifícia Universidade Católica do Rio Grande do Sul - Brazil)
Renata Vieira (PUCRS - Brazil)
Rafael Heitor Bordini (PUCRS - Brazil)

The future of AI: neat or scruffy?

Bernardo Gonçalves (USP - Brazil)
Fábio Cozman (USP - Politécnica - Brazil)

Evaluating Clustering Meta-Features for Classifier Recommendation

Luís Garcia (Universidade de Brasília - Brazil)

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Adriano Rivolli (Federal University of Technology of Parana (UTFPR) - Brazil)

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Improving Rule Based and Equivalent Decision Simplifications for Bloat Control in Genetic Programming Using a Dynamic Operator

Gustavo de Oliveira (Universidade Federal de Viçosa - Brazil)

Marcus Mendes (Universidade Federal de Viçosa - Brazil)

A Graph-based crossover and soft-repair operators for the Steiner Tree Problem

Giliard Godoi (Universidade Tecnológica Federal do Paraná - Brazil)

Renato Tinos (USP - Brazil)

Danilo Sanches (Universidade Tecnológica Federal do Paraná - Brazil)

Universal Dependencies-based PoS Tagging Refinement through Linguistic Resources

Lucelene Lopes (USP/ICMC - Brazil)

Magali Duran (USP/ICMC - Brazil)

Thiago Pardo (USP/ICMC - Brazil)

Deep Active-Self Learning Applied to Named Entity Recognition

Jose Reinaldo Cunha Santos A. V. Silva Neto (University of Brasilia - Brazil)

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Gradient Estimation in Model-Based Reinforcement Learning: a Study on Linear Quadratic Environments

Ângelo Lovatto (Universidade de São Paulo - Brazil)

Thiago Bueno (Instituto de Matemática e Estatística da USP - Brazil)

Leliane Nunes de Barros (University of São Paulo - Brazil)

Supervised Training of a Simple Digital Assistant for a Free Crop Clinic

Mariana Barros (UFPE - Brazil)

Igor Philippini (Universidade Federal de Pernambuco - Brazil)

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Edna Barros (UFPE - Brazil)

Rosana Blawid (Rural Federal University of Pernambuco - Brazil)

Stefan Blawid (Universidade Federal de Pernambuco - Brazil)

Improving a genetic clustering approach with a CVI-based objective function.

Caio Flexa (Federal University of Pará - Brazil)
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Moisés Silva (Federal University of Pará - Brazil)

On the Refinement of Compensation-based Semantics for Weighted Argumentation Frameworks

Henrique Oliveira (Instituto Federal do Ceará - Brazil)
João Fernando Lima Alcântara (Universidade Federal do Ceará - Brazil)

A Comparative Study on Concept Drift Detectors for Regression

Marilia Lima (Universidade de Pernambuco - Brazil)
Telmo Silva Filho (Universidade Federal da Paraíba - Brazil)
Roberta Andrade de Araújo Fagundes (Universidade de Pernambuco - Brazil)

A Protocol for Argumentation-based Persuasive Negotiation Dialogues

Mariela Morveli-Espinoza (Universidade Tecnológica Federal do Paraná - Brazil)
Ayslan Possebom (IFPR - Instituto Federal do Paraná - Brazil)
Cesar Tacla (Universidade Tecnológica Federal do Paraná - Brazil)

Rhetorical Role Identification for Portuguese Legal Documents

Eraldo Fernandes (Universidade Federal de Mato Grosso do Sul - Brazil)
Edson Cáceres (UFMS - Brazil)
Roberto Aragy Xavier Jr (TJMS - Brazil)

A Modified NSGA-DO for Solving Multiobjective Optimization Problems

Jussara Gomes Machado (Universidade Estadual de Feira de Santana - Brazil)
Matheus Giovanni Pires (State University of Feira de Santana - Brazil)
Fabiana Bertoni (UEFS - Brazil)
Adinovam Pimenta (Federal University of São Carlos - Brazil)
Heloisa Camargo (UFSCar - Brazil)

Code autocomplete using Transformers

Gabriel Tamujo Meyrer (CWI SOFTWARE - Brazil)
Denis de Araujo (Unisinos - Brazil)
Sandro Rigo (Universidade do Vale do Rio dos Sinos - Brazil)

Lackadaisical quantum walk in the hypercube to search for multiple marked vertices

Luciano de Souza (Federal Rural University of Pernambuco - Brazil)

Jonathan Carvalho (Universidade Federal de Pernambuco - Brazil)

Tiago Ferreira (Federal Rural University of Pernambuco - Brazil)

A Heterogeneous Network-based Positive and Unlabeled Learning Approach to Detecting

Fake News Mariana Souza (Universidade de São Paulo - Brazil)

Bruno Nogueira (Universidade Federal de Mato Grosso do Sul - Brazil)

Rafael Rossi (Federal University of Mato Grosso do Sul - Brazil)

Ricardo Marcacini (ICMC/USP - Brazil)

Solange Rezende (USP/ICMC - Brazil)

ASPIC? and the Postulates of Non-Interference and Crash-Resistance

Rafael Albuquerque (Universidade Federal do Ceará - Brazil)

João Alcântara (Universidade Federal do Ceará - Brazil)

A Systematic Approach to Define Semantics for Prioritised Logic Programs

João Alcântara (Universidade Federal do Ceará - Brazil)

Renan Cordeiro (Universidade Federal do Ceará - Brazil)

Guilherme Fernandes (Universidade Federal do Ceará - Brazil)

Henrique Oliveira (Instituto Federal do Ceará - Brazil)

Ensemble of Protein Stability Upon Point Mutation Predictors

Eduardo Kenji Hasegawa de Freitas (FURG - Brazil)

Alex Camargo (Universidade Federal do Pampa - Brazil)

Mauricio Balboni (FURG - Brazil)

Adriano Werhli (Universidade Federal do Rio Grande - Brazil)

Karina dos Santos Machado (Universidade Federal do Rio Grande - FURG - Brazil)

Iris-CV: Classifying Iris Flowers Is Not as Easy as You Thought

João Teixeira (Universidade Federal da Paraíba - Brazil)

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Felipe de Sousa (Universidade Federal da Paraíba - Brazil)

Online selection of heuristic operators with Deep Q-Netowrk: a study on the HyFlex Framework

Augusto Dantas (Universidade Federal do Paraná - Brazil)

Aurora Pozo (UFPR - Brazil)

Dynamic Learning in Hyper-Heuristics to Solve Flowshop Problems

Lucas Pavelski (Federal University of Technology of Parana - Brazil)

Marie-Éléonore Kessaci (University of Lille - France)

Myriam Delgado (Federal University of Technology of Parana - Brazil)

DEEPAGÉ: Answering Questions in Portuguese about the Brazilian Environment

Flávio Cação (University of São Paulo - Brazil)

Marcos José (University of São Paulo - Brazil)

André Seidel Oliveira (Universidade de São Paulo (USP) - Brazil)

Stefano Spindola (University of São Paulo - Brazil)

Anna Costa (Universidade de São Paulo - Brazil)

Fábio Cozman (USP - Politécnica - Brazil)

Interpreting classification models using feature importance based on marginal local effects Rogério Cardoso Silva Filho

(Instituto Federal do Norte de Minas Gerais - Brazil)

Paulo Adeodato (Universidade Federal de Pernambuco - Brazil)

Kellyton Brito (Universidade Federal Rural de Pernambuco - Brazil)

A Conversational Agent to Support Hospital Bed Allocation

Débora Engelmann (Pontifical Catholic University of Rio Grande do Sul - Brazil)

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Alison R. Panisson (UFSC - Brazil)

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Deep Convolutional Features for Fingerprint Indexing

Leonardo Ferreira da Costa (Universidade Federal do Ceará - Brazil)

Lucas de Sousa Fernandes (Universidade Federal do Ceará - Brazil)

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Incorporating Text Specificity into a Convolutional Neural Network for the Classification of Review Perceived Helpfulness

Beatriz Lima (UFBA - Brazil)

Tatiane Nogueira (Federal University of Bahia - Brazil)

I2DE: Improved Interval Differential Evolution for Numerical Constrained Global Optimization

Mariane Regina Sponchiado Cassenote (Universidade Federal do Paraná - Brazil)
Guilherme Derenievicz (Federal University of Paraná - Brazil)
Fabiano Silva (UFPR - Brazil)

Ethics of AI: Do the face detection models act with prejudice?

Marcos Vinícius Ferreira (Federal University of Bahia - Brazil)
Ariel Almeida (Federal University of Bahia - Brazil)
João Paulo Canario (Federal University of Bahia - Brazil)
Matheus Souza (Federal University of Bahia - Brazil)
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Ricardo Rios (Universidade Federal da Bahia - Brazil)

Joint Event Extraction with Contextualized Word Embeddings for the Portuguese Language

Anderson Sacramento (Universidade Federal da Bahia - Brazil)
Marlo Souza (UFBA - Brazil)

Transfer Learning of Shapelets for Time Series Classification Using Convolutional Neural Network

Alexandre de Souza (UFPR - Brazil)
Mariane Regina Sponchiado Cassenote (Universidade Federal do Paraná - Brazil)
Fabiano Silva (UFPR - Brazil)

Long-term Map Maintenance in Complex Environments

Josias Oliveira (Universidade Federal do Espírito Santo - Brazil)
Filipe Mutz (Instituto Federal do Espírito Santo - Campus Serra - Brazil)
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Alberto De Souza (Universidade Federal do Espírito Santo - Brazil)
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Performance analysis of YOLOv3 for real-time detection of pests in soybeans

Fabio Silveira (Universidade Federal da Grande Dourados - Brazil)
Everton Castelão Tetila (Universidade Federal da Grande Dourados - Brazil)
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An Enhanced TSP-based Approach for Active Debris Removal Mission Planning

João Batista Neto (Universidade do Vale do Rio dos Sinos - Brazil)

Gabriel Ramos (Universidade do Vale do Rio dos Sinos - Brazil)

Sea State Estimation with Neural Networks based on Motions of a Moored FPSO under Metocean Conditions from Campos Basin

Gustavo Bisinotto (University of São Paulo - Brazil)

Lucas Cotrim (University of São Paulo - Brazil)

Fábio Cozman (USP - Politécnica - Brazil)

Eduardo Tannuri (University of Sao Paulo - Brazil)

Text Classification in Legal Documents Extracted from Lawsuits in Brazilian Courts

André Aguiar (Universidade de Fortaleza - Brazil)

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Evaluation of Convolutional Neural Networks for COVID-19 Classification on Chest X-Rays

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Henrique Bohn (Universidade do Vale do Rio dos Sinos - Brazil)

Ismael Santos (Universidade do Vale do Rio dos Sinos - Brazil)

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mRAT-SQL+GAP: A Portuguese Text-to-SQL Transformer

Marcelo José (Instituto de Estudos Avançados da Universidade de São Paulo - Brazil)

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On the Analysis of CGP Mutation Operators when Inferring Gene Regulatory Networks using scRNA-Seq Time Series Data

José Eduardo Henriques da Silva (Universidade Federal de Juiz de Fora - Brazil)

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Alex Borges (Universidade Federal de Juiz de Fora - Brazil)

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Quaternion-Valued Convolutional Neural Network Applied for Acute Lymphoblastic Leukemia Diagnosis

Marco Aurélio Santos (IFSP - Campus São Paulo - Brazil)

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Marcos Eduardo Valle (Universidade Estadual de Campinas - Brazil)

Experiments on Kaldi-based Forced Phonetic Alignment for Brazilian Portuguese

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