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Current Position

Full Professor
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Research interest: Classifier Ensembles, Hybrid Neural Systems, Machine learning

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Short Bio

Anne M P Canuto received the Ph.D. degree in Artificial Neural Networks in 2001 from Electronics Department, University of Kent, UK. In April 2002, she joined the Department of Informatics and Applied Mathematics at Federal University of Rio Grande do Norte, Brazil, where she is currently a Full Professor. In 2004, she was granted a CNPq (Brazilian Council for the scientific and technological development) research scholarship, which is intended for researchers who stand out among their peers. She has published almost 200 articles in scientific journals and conferences over the last 25 years. She is currently head of graduate program of computer science of the DIMAp/UFRN (2019-2022) and was head of undergraduate students of the computer science course (2003-2005). Since 2003, she has supervised 15 doctoral thesis and 26 master dissertations. She has been involved in program committees of many Brazilian and international conferences. She has also served as review of many international journals and conferences. She has an h-index of 18 and 1413 citations in Google scholar.

Contributions

Anne Canuto's contributions are mainly in Computational Intelligence, with emphasis on Neural Networks, Optimization Algorithms and Machine Learning. Her research interests include Neural Networks, optimization algorithms and hybrid neural systems. In her PhD research, she investigated different ways to combine Neural Networks and Fuzzy Systems in classifier ensembles. As a result of this result, she proposed an ARTMAP-based neural network model that was more flexible and efficient than the original ARTMAP model in several classification applications. Since then, she has been working with learning algorithms to compose classifier ensemble as well as she has also proposed several ways to optimize parameters of classifier ensembles to generate high performance systems for different data sets. She has assessed the use of classifier ensembles in semi-supervised learning context as well as different classification contexts (multi-label, hierarchical, among others).

Anne Canuto has been actively working in the area of Neural Network in Brazil. She has participated in several events related to Computation Intelligence (Brazilian Symposium on Artificial Intelligence - SBIA, Brazilian Symposium on Neural Network - SBRN, Brazilian Congress on ComputationalIntelligence - CBIC, Brazilian Conference on Intelligence Systems - BRACIS) being general chair of 01 BRACIS (2015) and PC chair of other 2 BRACIs (2006 and 2019). Finally, she has formed 26 M.S. and 15 Ph.D. in this subject.

Experience in organizing conferences and journals

Anne Canuto has served in the international program committee for over 15 conferences (such as IJCNN, ICANN, HIS, BRACIS), as general chair of one Brazilian Conference on Intelligence Systems and some regional summer schools in Neural Networks and Artificial Intelligence. Finally, she is currently member of the editorial board of the Neural Network journal.

Selected Publications

- Investigating fusion approaches in multi-biometric cancellable recognition. AMP Canuto, F Pintro, JC Xavier-Junior, Expert Systems with applications 40 (6), 1971-1980, 2013. (GoogleScholar: 55)
- An interval-based framework for fuzzy clustering applications. L Silva, R Moura, AMP Canuto, RHN Santiago, B Bedregal. IEEE Transactions on Fuzzy Systems 23 (6), 2174-2187, 2013.
- Gradual Complex Numbers and Their Application for Performance Evaluation Classifiers. EL Souza, RHN Santiago, AMP Canuto, RO Nunes. IEEE Transactions on Fuzzy Systems 26 (2), 1058-1065, 2017.
- Combining multiple algorithms in classifier ensembles using generalized mixture functions. VS Costa, ADS Farias, B Bedregal, RHN Santiago, AMP Canuto. Neurocomputing 313, 402-414, 2018.
- A Data Stratification Process for Instances Selection in Semi-Supervised Learning. KMO Vale, AMP Canuto, FL Gorgônio, AJF Lucena, CT Alves, International Joint Conference on Neural Networks (IJCNN), 1-8, 2019
- An exploratory analysis of data noisy scenarios in a Pareto-front based dynamic feature selection method. APPLIED SOFT COMPUTING, v. 1, p. 106951, 2020.
- EOCD: An Ensemble Optimization Approach for Concept Drift Applications. INFORMATION SCIENCES, v. 1, p. 1, 2021.
- Evaluating Brain Regions That Characterize Attention Deficit/Hyperactivity Disorder Based on SPECT Images and Machine Learning Models. In: 2022 International Joint Conference on Neural Networks (IJCNN), 2022, Padua. 2022 International Joint Conference on Neural Networks (IJCNN), 2022. p. 1.