ARTUR JORDÃO LIMA CORREIA

University of Campinas (UNICAMP)
PostDoctoral Research
Campinas, SP, Brazil

Email: arturjordao[at]dcc.ufmg.br
Homepage: http://arturjordao.github.io

EDUCATION

2020 PhD degree in Computer Science, Federal University of Minas Gerais, Brazil. Smart Sense Laboratory.

2016 MSc. degree in Computer Science, University of Minas Gerais, Brazil. Smart Sense Laboratory.

2013 B.Sc degree in Computer Science, University of Western São Paulo, Presidente Prudente – São Paulo, Brazil.

SCHOLARSHIPS RECEIVED

2017 – 2020 Brazilian National Council for Scientific and Technological Development (CNPq). PhD. Scholarship. Research on compression and acceleration of deep networks.

2016 Foundation for Research Development (FUNDEP) in partnership with SAMSUNG. Research Scholarship. Research on human activity recognition. Federal University of Minas Gerais, Brazil. Smart Sense Laboratory.

2014 – 2016 Coordination for the Improvement of Higher Education Personnel (CAPES). Masters Scholarship. Research on visual computing and machine learning algorithms related to the surveillance.

AWARDS

2021 Finalist of the XXXIV Concurso de Teses e Dissertações (CTD) 2021 – XLI Congresso da Sociedade Brasileira de Computação (CSBC), ranking among the top 6 (out of 46) best theses.

2021 Best PhD Thesis (Edition 2021) of the Graduate Program in Computing Science of the Federal University of Minas Gerais - Computer Science Department.

2021 Award nomination to Capes Thesis Award and UFMG Thesis Grand Prize.

Professional Service Activity

Journal Reviewer

2021 – current IEEE Transactions on Information Forensics and Security

2021 – current Springer Pattern Recognition Letters

2020 – current IEEE Transactions on Pattern Analysis and Machine Intelligence

2020 – current Springer Knowledge-Based Systems

2020 – current Nature Scientific Reports

2020 – current IEEE Transactions on Emerging Topics in Computing

2020 – current Frontiers Neuroinformatics

2019 – current IEEE Access

2019 – current Springer The Visual Computer

2017 – 2019 IEEE Sensors Journal

2017 – 2018 Springer Pattern Recognition Letters

Conference Reviewer

2022 IEEE Winter Conference on Applications of Computer Vision (WACV)
2021 IEEE Winter Conference on Applications of Computer Vision (WACV)
2019 IEEE Symposium Series on Computational Intelligence (SSCI)

Publications

Conference papers

2021 Jordão, Artur; Pedrini, Hélio. **On the Effect of Pruning on Adversarial Robustness.** In IEEE/CVF International Conference on Computer Vision Workshops (ICCVW).

2021 Jordão, Artur; Lie, Maiko ; de Melo, Victor Hugo Cunha; Schwartz, William Robson. **Covariance-free Partial Least Squares: An Incremental Dimensionality Reduction Method.** In Winter Conference on Applications of Computer Vision (WACV).

2020 Jordão, Artur; Lie, Maiko ; Yamada, Fernando; Schwartz, William Robson. **Stage-Wise Neural Architecture Search.** In International Conference on Pattern Recognition (ICPR).

2019 Jordão, Artur; Kloss, Ricardo; Yamada, Fernando; Schwartz, William Robson. **Pruning Deep Convolutional Networks Using Partial Least Squares.** In British Machine Vision Conference (BMVC) Workshops: Embedded AI for Real-Time Machine Vision.

2018 Jordao, Artur; Kloss, Ricardo; Schwartz, William Robson. **Latent Hypernet: Exploring The Layers of Convolutional Neural Networks.** In International Joint Conference on Neural Networks (IJCNN).

2018 Barbosa Kloss, Ricardo; Jordao, Artur; Schwartz, William Robson. **Face Verification: Strategies For Employing Deep Models.** In IEEE International Conference on Automatic Face and Gesture Recognition (FG).

2017 Barbosa Kloss, Ricardo; Jordão, Artur; William Schwartz. **Boosted Projection: An Ensemble Of Transformation Models.** In Iberoamerican Congress on Pattern Recognition (CIARP).

2016 Jordao, Artur; De Souza, Jessica Sena; Schwartz, William Robson. **A Late Fusion Approach To Combine Multiple Pedestrian Detectors.** In International Conference on Pattern Recognition (ICPR).

2016 Correia, Artur; Schwartz, William Robson. **Oblique Random Forest Based On Partial Least Squares Applied To Pedestrian Detection.** In IEEE International Conference on Image Processing (ICIP).

Journal papers

2021 Sena, Souza; Jordao, Artur; Schwartz, William Robson. **A Content-Based Late Fusion Approach Applied to Pedestrian Detection.** In Journal of Visual Communication and Image Representation.

2020 Jordao, Artur; Yamada, Fernando; Schwartz, William Robson. **Deep Network Compression based on Partial Least Squares.** In Neurocomputing.

2020 Jordao, Artur; Lie, Maiko; Schwartz, William Robson. **Discriminative Layer Pruning for Convolutional Neural Networks.** In IEEE Journal of Selected Topics in Signal Processing.

2018 Jordao, Artur; Torres, Leonardo Antônio Borges; Schwartz, William Robson. **Novel Approaches To Human Activity Recognition Based On Accelerometer Data.** In Signal, Image And Video Processing.

PATENTS

2018 **US 16/033,847** - Method and system for sensor data recognition using data enrichment for the learning process (pending).

2018 **BR 10 2017 026251 0** - Metodo e Sistema de Reconhecimento de dados de sensor utilizando o enriquecimento de dados para o processo de aprendizagem (pending). (in Portuguese)