

# ARTUR JORDÃO LIMA CORREIA

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## EDUCATION

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- 2017 – current** PhD candidate 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

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- 2017 – current** 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.

## PROFESSIONAL SERVICE ACTIVITY

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### Journal Reviewer

- 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
- 2019 – current IEEE Access
- 2019 – current Springer The Visual Computer
- 2017 – 2019 IEEE Sensors Journal
- 2017 – 2018 Springer Pattern Recognition Letters

### Conference Reviewer

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

## PUBLICATIONS

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### Conference papers

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

- 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

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- 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)