

JHONY KAESEMODEL PONTES

Speech, Audio, Image and Video Technology Lab (SAIVT)
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Research Interests

3D Computer Vision, Machine Learning, Signal Processing, Optimization

Education

Ph.D. in Computer Vision <i>“Representation and reconstruction of 3D objects from imagery”</i> Supervised by Clinton Fookes, Anders Eriksson, Sridha Sridharan Queensland University of Technology (QUT), Brisbane, Australia	10/2015 – Present
Visiting Research Scholar Visiting scholar at the CI2CV Lab at the Robotics Institute Supervised by Simon Lucey Carnegie Mellon University (CMU), Pittsburgh, USA	01/2017 – 07/2017
M.Sc. in Electrical Engineering <i>“Hierarchical Age Estimation based on Global and Local Features from Facial Images”</i> Supervised by Alessandro Koerich, Clinton Fookes Federal University of Paraná (UFPR), Curitiba, Brazil	04/2013 – 12/2014
B.E. in Computer Engineering (80/100) Pontifical Catholic University of Paraná (PUCPR), Curitiba, Brazil	02/2007 – 12/2012
Exchange Program in Electrical Engineering Czech Technical University (CTU), Prague, Czech Republic	08/2010 – 06/2011
Mechatronics Technician (87/100) ENSITEC High School and Professional Education, Curitiba, Brazil	02/2003 – 07/2004

Experience

Queensland University of Technology — Brisbane, Australia <i>Research Assistant</i>	02/2016 – 04/2016
<ul style="list-style-type: none">Assistance in writing and revising a grant proposal for the Australian Research Council (ARC)	
Renault do Brasil S.A. — Curitiba, Brazil <i>Algorithm Engineer</i>	04/2012 – 07/2015
<ul style="list-style-type: none">Model-based design of control systems for flex-fuel enginesSoftware verification and validation	
Medequip Systems (Airsys) — Curitiba, Brazil <i>Mechatronics Technician</i>	05/2006 – 03/2012
<ul style="list-style-type: none">Design, development and production of medical ventilatorsInternational technical supportCertification ISO9001, ISO13485, CE Mark, InmetroAttended the Mechanical Lung Ventilation symposium in Cairo, Egypt (2008)	

Skills

Programming Languages: Python, MATLAB, C/C++

Software and Platforms: TensorFlow, PyTorch, Torch, Blender, OpenCV

Awards

Science Without Borders scholarship — Ministry of Education of Brazil, 2015 to 2019

Erasmus Mundus EuBrazil StartUp scholarship — European Commission, 2010 to 2011

Best Student Award — Mechatronics Technician, ENSITEC, 2004

Publications

Conference papers

- [1] **Jhony K. Pontes**, Chen Kong, Sridha Sridharan, Simon Lucey, Anders Eriksson, Clinton Fookes, “Image2Mesh: A learning framework for single image 3D reconstruction”, Submitted to the *International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018.
- [2] Dominic Jack, **Jhony K. Pontes**, Clinton Fookes, Anders Eriksson, Sareh Shirazi, Frederic Maire, “Learning free-form deformations for 3D object reconstruction”, Submitted to the *International Conference on Computer Vision and Pattern Recognition (CVPR)*, 2018.
- [3] **Jhony K. Pontes**, Chen Kong, Anders Eriksson, Clinton Fookes, Sridha Sridharan, Simon Lucey, “Compact model representation for 3D reconstruction”, *International Conference on 3D Vision (3DV)*, 2017.
- [4] **Jhony K. Pontes**, Alessandro L. Koerich, Clinton Fookes, Alceu S. Britto Jr, “Two-stage facial age prediction using group-specific features”, *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, 2017.

Journals

- [5] **Jhony K. Pontes**, Alessandro L. Koerich, Clinton Fookes, Alceu S. Britto Jr, “A flexible hierarchical approach for facial age estimation based on multiple features”, *Pattern Recognition*, Volume 54, Pages 34-51, June 2016.

Patents

- [6] Fabio Vicentini, **Jhony K. Pontes**, “Ethanol rate estimation of a flex-fuel engine with ethanol sensor”. Renault do Brasil S.A, France FR3043722, 2017.

Presentations

Hierarchical age estimation from unconstrained facial images, STIC AmSud/Capes 2014 workshop, Brazil.