Jhony Kaesemodel Pontes

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

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Brisbane, Australia

Research Interests

3D Computer Vision, Machine Learning

Education

Ph.D. in Computer Vision	10/2015 – Expected mid-2019

"Representation and reconstruction of 3D shapes"

Supervised by Clinton Fookes, Anders Eriksson, Sridha Sridharan

Queensland University of Technology (QUT), Brisbane, Australia

Visiting Research Scholar	01/2017 – 07/2017

Visiting scholar at the CI2CV Lab at the Robotics Institute

Supervised by Simon Lucey

Carnegie Mellon University (CMU), Pittsburgh, USA

M.Sc. in Electrical Engineering	04/2013 – 12/2014

"Hierarchical age estimation based on global and local features from facial images"

Supervised by Alessandro Koerich, Clinton Fookes

Federal University of Paraná (UFPR), Curitiba, Brazil

B.E. in Computer Engineering	02/2007 – 12/2012

Pontifical Catholic University of Paraná (PUCPR), Curitiba, Brazil

Exchange Program in Electrical Engineering	08/2010 – 06/2011

Czech Technical University (CTU), Prague, Czech Republic

Mechatronics Technician	02/2003 – 07/2004

ENSITEC High School and Professional Education, Curitiba, Brazil

Experience

Facebook Reality Labs — Redmond, USA

Research Intern — 06/2018 – 11/2018

- 3D reconstruction research for the Audio team

Queensland University of Technology — Brisbane, Australia

Machine Learning Tutor — 02/2018 – 05/2018

Queensland University of Technology — Brisbane, Australia

Research Assistant — 02/2016 – 04/2016

- Assistance in writing and revising a grant proposal for the Australian Research Council (ARC)

Renault do Brasil S.A. — Curitiba, Brazil

Algorithm Engineer — 04/2012 – 07/2015

- Model-based design of control systems for flex-fuel engines

Medequip Systems (Airsys) — Curitiba, Brazil

Mechatronics Technician — 05/2006 – 03/2012

- Design, development and production of medical ventilators

Skills

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

Software and Platforms: PyTorch, TensorFlow, OpenCV

Awards

Supervisor Top Up PhD Scholarship — Queensland University of Technology (QUT), 2018 to 2019

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", *Asian Conference on Computer Vision (ACCV)*, 2018.

[2] Dominic Jack, **Jhony K. Pontes**, Clinton Fookes, Anders Eriksson, Sareh Shirazi, Frederic Maire, "Learning free-form deformations for 3D object reconstruction", *Asian Conference on Computer Vision (ACCV)*, 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 for flex-fuel engines". Renault do Brasil S.A, France FR3043722, 2017.