Renam Castro da Silva

RESEARCHER

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Education

Universidade Federal do Rio de Janeiro

Rio de Janeiro, Brasil

DOCTOR OF SCIENCE IN ELECTRICAL ENGINEERING

September 2013 - February 2018

- Thesis: Towards Visualization and Searching: A Dual-purpose Video Coding Approach
- Scholarship from Fundação de Amparo à Pesquisa do Estado do Amazonas (FAPEAM)

Instituto de Telecomunicações

Lisboa, Portugal

DOCTORAL STUDENT EXCHANGE PROGRAM

May 2016 - April 2017

Research on a video coding approach using local visual features
 Scholarship from Conselho Nacional de Desenvolvimento Científico e Tecnológico (CNPq)

Universidade Federal do Rio de Janeiro

Rio de Janeiro, Brasil

MASTER OF SCIENCE IN ELECTRICAL ENGINEERING

March 2011 - September 2013

- Dissertation in Portuguese: Image Compression using Prediction and Polynomial Approximations
- Scholarship from Coordenação de Aperfeiçoamento de Pessoal de Nível Superior (CAPES)

Universidade do Estado do Amazonas

Manaus, Brasil

BACHELOR OF SCIENCE IN MECHATRONIC ENGINEERING

2006 - 2010

Work Experience _____

Samsung R&D Institute Brazil

Campinas, Brasil

IMAGE AND VIDEO PROCESSING SPECIALIST

March 2018 - Present

- Research on image and video compression using both engineered and learning-based approaches
- Technical leader in research projects
- Draft patent review committee

Instituto Nokia de Tecnologia

Manaus, Brasil

INTERN

2008 - 2010

· Software development, driver development for RFID reader, fault detection in radio frequency circuits

Publication

MULTI-MODE INTRA PREDICTION FOR LEARNING-BASED IMAGE COMPRESSION

International Conference on Image Processing (ICIP), accepted, 2020.

JOINT MOTION AND RESIDUAL INFORMATION LATENT REPRESENTATION FOR P-FRAME CODING

Computer Vision and Pattern Recognition (CVPR) Workshops, Online, June 2020.

TOWARDS VISUALIZATION AND SEARCHING: A DUAL-PURPOSE VIDEO CODING FRAMEWORK

IEEE Access, vol. 8, no 1, January 2020.

DISTORTION SCALABLE LEARNED IMAGE COMPRESSION

International Workshop on Multimedia Signal Processing (MMSP), Kuala Lumpur, Malaysia, September 2019.

FEATURE-BASED VIDEO CODING: DESIGNING AN RD EFFICIENT AND SEARCH FRIENDLY FRAMEWORK

Picture Coding Symposium (PCS), Nuremberg, Germany, December 2016.

STUDYING THE COMPRESSION PERFORMANCE OF VIDEO DESCRIPTORS.

Simpósio Brasileiro de Telecomunicações (SBrT), Juiz de Fora, Brasil, September 2015. Best paper award.

Compressão de Mapas de Profundidade usando Predição e Aproximações Polinomiais

Simpósio Brasileiro de Telecomunicações (SBrT), Fortaleza, Brasil, September 2013.

DETECÇÃO DE FALHAS EM CABOS E ANÁLISE DE QUALIDADE DE CONEXÃO EM CIRCUITOS DE COMUNICAÇÃO

Congresso Brasileiro de Automática, Bonito, Brasil, September 2010.

Skills & Courses_

Programming/scripting Matlab, R, python, bash script, c, c++

Miscellaneous Linux, Docker, Kubernetes, Git, Confluence, Latex, Tensorflow, Opency, Scrum

Languages Portuguese (Native), English (Good listening, writing and speaking skills)

Data science course Data analysis, unsupervised learning, supervised learning and deep learning

100h - Universidade Estadual de Campinas

Professional membership and awards_

Member, Brasilian expert group on image and multimedia coding

Member, IEEE member, signal processsing society

Awarded, Best paper award from Sociedade Brasileira de Telecomunicações

2018-Present 2015-Present 2015

Technical review __

IEEE Transactions on Multimedia

REVIEWER

• Has served as volunteer reviewer for IEEE Transactions on Multimedia

IEEE Access

REVIEWER

• Has served as a volunteer reviewer for IEEE Access

Presentation

Computer and technology week. Universidade Federal de São Carlos (UFSCar)

Sorocaba, Brazil

Nov. 2017

INVITED SPEAKER

• Introduction to image and video compression

Share Knowledge Day. Samsung R&D Institute Brazil

Campinas, Brazil

August 2018

INVITED SPEAKER

· Advances on multimedia signal processing

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Samsung Chat. (NGO) CEPROMM

Campinas, Brazil

Volunteer spaker

Researcher career

August 2018