

CONTACT INFORMATION	Birth Date: 22-02-1990 Mobile: +351 918 515983 Feira, Portugal	kafc@inesctec.pt kelwinfc@gmail.com IEEE Member
EDUCATION	Universidade do Porto (UP) , Porto, Portugal. PhD in Computer Science (GPA: 18.75/20) Thesis Title: Cervical Cancer Detection on Colposcopic Images Advisor: Jaime S. Cardoso	Sep '14 –
	Universidad Simón Bolívar (USB) , Caracas, Venezuela. Bsc in Computer Engineering (GPA: 4.84/5 , <i>Summa Cum Laude</i>) Class rank: 1 st /248 Thesis Title: Teeth and palate detection in palatal view intraoral images Advisor: Carolina Chang	Sep '07 – Jul '12
RESEARCH INTERESTS	Machine Learning, Artificial Intelligence, Metaheuristics Computer Vision, Biomedical Image Processing	
AWARDS	Best Paper Award at EPIA 2015 , Coimbra, Portugal. 2015 CTM Researcher-Entrepreneur Competition , INESC TEC. Portugal. 2014 PhD Grant (SFRH/BD/93012/2013) , FCT, Portugal. 2013 Third best candidature in Computer Science in Portugal Research Grant (AE2013-0039) , INESC TEC, Portugal. 2013 Outstanding Performance Award as a Teaching Assistant , USB. 2012 Best academic average of cohort 2007 in Computer Engineering , USB. 2012 Best Student Award , USB. 2011 Best academic average of cohort 2007 in Computer Engineering , USB. 2010 Honor of Merit 2007 , USB. 2008	
PROFESSIONAL EXPERIENCE	Researcher , INESC TEC. Porto, Portugal. Jul'13 – Artificial Intelligence Leader , Predictvia. Feb'13 – Nov'14 Web Developer , TalPor Solutions. Caracas, Venezuela. Jul'12 – Oct'12	
TEACHING EXPERIENCE	Universidade do Porto <i>Lab. of Programming 2 (Data Structures)</i> Universidad Simón Bolívar <i>Mathematics I (Differential Calculus), Symbolic Logic (three periods), Lab. of Algorithms and Data Structures I-III (Introduction to Programming, Data Structures, Graph Theory), Artificial Intelligence II (Machine Learning), Department Assistant (development of study material about algorithmia and data structures)</i>	
PUBLICATIONS (1/2)	<ul style="list-style-type: none"> • K. Fernandes, P. Vinagre and P. Cortez. <i>A Proactive Intelligent Decision Support System for Predicting the Popularity of Online News</i>. Proceedings of the 17th EPIA 2015 - Portuguese Conference on Artificial Intelligence, September, Coimbra, Portugal (accepted). • Fernandes, K., Cardoso, J., Fernandes, J. (2015). <i>Temporal Segmentation of Digital Colposcopies</i>. In Pattern Recognition and Image Analysis (pp. 262-271). Springer International Publishing. • Fernandes, K., Silva, P. F., Ciobanu, L., Fonseca, P. (2014). <i>Catalogue-Based Traffic Sign Asset Management: Towards User's Effort Minimisation</i>. In Image Analysis and Recognition (pp. 301-308). Springer International Publishing. • Fernandes, Kelwin and Ciobanu, Lucian: <i>Pavement Pathologies Classification Using Graph-Based Features</i>. International Conference on Image Processing (ICIP). IEEE (October, 2014). • Fernández, K, González G. and Chang, C. <i>A*mbush family: A* Variations for Ambush Behavior And Path Diversity Generation</i>. M. Kallmann and K. Bekris (Eds.): MIG 2012, LNCS 7660, pp. 314-325. Springer, Heidelberg (2012). • Fernández, Kelwin and Chang, Carolina: <i>Teeth/Palate and Interdental Segmentation Using Artificial Neural Networks</i>. In N. Mana, F. Schwenker, and E. Trentin (Eds.): ANNPR 2012, LNAI 7477, pp. 175-185, 2012. Springer-Verlag Berlin Heidelberg 2012. 	

PUBLICATIONS
(2/2)

- Fernández, Kelwin; González, Glebys; Chang, C. *A* mbush: A* Variation to Generate Ambushes and Path Diversity*. Caracas, Venezuela. May, 2012. Proceedings: “Memorias del II Simposio Científico y Tecnológico en Computación (SCTC 2012)”. pp. 98 - 105.

Kelwin Alexander Fernandes Correia

Curriculum Vitae 2/2

ACADEMIC
ACTIVITIES

- Reviewer at:
Elsevier’s Neurocomputing, Springer’s Neural Computing and Applications and MICCAI 2015 2015 – now
- Co-organizer of the 4th VISUM Summer School, Porto, Portugal. 2016
- Co-organizer of the 3th VISUM Summer School, Porto, Portugal. 2015
- Speaker in the International Conference on Image Processing, Paris, France. 2014
- Participant in the Blackbox Connect, Palo Alto, CA, USA. 2014
- Member of the VCMi Group, INESC TEC. 2013 – now
- Speaker in the Joinic V, UCAB, Venezuela. 2013
- Speaker in the 5 th Workshop on ANN in Pattern Recognition, Trento, Italy. 2012
- Speaker in the Joinic IV, UCAB, Venezuela. 2012
- Programming Contests Trainer, USB, Venezuela. 2011 – 2015
- Participant in the Joinic III, USB, Venezuela. 2011
- Member of the Artificial Intelligence Group, Universidad Simón Bolívar. 2009 – now
- Participant in the Symposium Idea to Success: Competitiveness, USB. 2008
- Participant in the LVII Annual Convention of the AsoVAC, UNET, Venezuela. 2007

CONTESTS

- ACM-ICPC Southwestern Europe ACM Programming Contest (Judge). 2015
- ACM-ICPC World Finals (Co-coach), Marrakech, Morocco. 2015
- Author Identification Task at PAN@CLEF (**Global Rank:** 3rd/17). 2015
Rank: *Dutch:* 2nd/17 *Spanish:* 3rd/17 *Greek:* 6th/15 *English:* 7th/17 .
- IEEE Latin American Robotics Competition (Rank: 8th), Brasil. 2012
- ACM-ICPC South America-North Regional (Rank: Region 7th- National 1st). 2012
- XIV USB Local Programming Contest (Rank: 2nd, USB, Venezuela). 2012
- IEEE Latin American Robotics Competition (Rank: 6th), Bogotá, Colombia. 2011
- ACM-ICPC South America-North Regional (Rank: Region 4th - National 1st). 2011
- XIII USB Local Programming Contest (Rank: 1st), USB, Venezuela. 2011
- CEIDEC Programming Contest (Rank: 1st), UCV, Venezuela. 2011
- ACM-ICPC South America-North Regional (Rank: Region 10th - National 1st). 2010
- XII USB Local Programming Contest (Rank: 1st), USB, Venezuela. 2010
- Smartmatic Connect IV Programming Contest, Venezuela. 2010
- XI USB Local Programming Contest (Rank: 6th), USB, Venezuela. 2009

SKILLS

- Specialization Courses** *Adaptive Business Intelligence, Knowledge Discovery from Databases, Machine Learning, Artificial Intelligence, Artificial Intelligence for Video Games, Algorithm Design, Computer Vision, Compilers, Algebraic and Coalgebraic Models in Software Development, Advanced Functional Programming.*
- Programming languages** *Python, C++, C, Haskell, Java, Java/JML, Prolog, SQL, L^AT_EX, Bash, MIPS-32, ActionScript, Wolfram Mathematica (basic).*
- Tools** *Scipy, NLTK, Weka, OpenCV, Git, Subversion, Matlab, MongoDB, PostgreSQL, MySQL, Django, PyGames, Flex, Bison, Adobe Flex, Qt, Scrum, among others.*

LANGUAGES

- Spanish:** *Mother language*
- English:** *Advanced*
- Portuguese:** *Advanced*