Francesco BIANCONI
Curriculum vitae

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Personal details

Born: 17 July 1971, Perugia, Italy
Gender: Male
Citizenship: Italian

Education

University degrees

- Doctor of Philosophy, *Computer-aided Mechanical Design*
  Università degli Studi di Perugia, Perugia, Italy — Jan. 2001
- Master of Engineering, *Mechanical Engineering*
  Università degli Studi di Perugia, Perugia, Italy — Apr. 1997

Other courses

- *Applied Data Science Specialization*, IBM/Coursera — Jun. 2020

Languages

- English: Advanced
  - Cambridge CB CAE (grade A – 81/100) — Apr. 2013
  - iBT TOEFL (104/120) — Dec. 2011

- Spanish: Advanced
  - DELE intermediate (95/100) May 2006
- Italian: Native

1 IT & Programming skills

Programming languages & VCS
C, C++, Java, Python and Git
Digital typesetting & office automation
Microsoft Excel, Microsoft Word and LaTeX
Scientific packages & data visualisation tools
Matlab, Mathematica and Tableau
CAD/CAE
Autodesk AutoCAD, Autodesk Inventor and SolidWorks

Professional experience

Publications

Edited books

[1] F. Bianconi, A. Fernández, and R.E. Sánchez-Yáñez, editors. *Texture and color in image analysis*. MDPI, 2021. Printed edition of the Special Issue Texture and Colour in Image Analysis, published in Applied Sciences

Book chapters

[1] F. Bianconi and A. Fernández. A unifying framework for LBP and related methods. In S. Brahnam, L. C. Jain, L. Nanni, and A. Lumini, editors, *Local binary patterns: New variants and applications*, volume 506 of *Studies in Computational Intelligence*, pages 17–46. Springer, 2014

[2] J.N. Kather, R. Bello-Cerezo, F. Di Maria, G.W. van Pelt, W.E. Mesker, N. Halama, and F. Bianconi. Classification of tissue regions in histopathological images: Comparison between pre-trained convolutional neural networks and local binary patterns variants. In L. Nanni, S. Brahnam, R. Brattin, S. Ghidoni, and L.C. Jain, editors, *Deep learners and deep learner descriptors for medical applications*, volume 186 of *Intelligent Systems Reference Library*, chapter 3, pages 95–115. Springer, 2020

Journal papers

[1] E. Chirikhina, A. Chirikhin, S. Dewsbury-Ennis, F. Bianconi, and P. Xiao. Skin characterizations by using contact capacitive imaging and high-resolution ultrasound imaging with machine learning algorithms. *Applied Sciences*, 11(18), sep 2021. Art. no. 8714

[2] B. Palumbo, F. Bianconi, and I. Palumbo. Solitary pulmonary nodule: Is positron emission tomography/computed tomography radiomics a valid diagnostic approach? *Lung India*, 38(5):405–407, sep-oct 2021. Editorial

[3] F. Bianconi, M.L. Fravolini, I. Palumbo, G. Pascoletti, S. Nuvoli, M. Rondini, A. Spanu, and B. Palumbo. Impact of lesion delineation and intensity quantisation on the stability of texture features from lung nodules on CT: A reproducible study. *Diagnostics*, 11(7), jul 2021. Art. no. 1224

[4] F. Bianconi, M.L. Fravolini, S. Pizzoli, I. Palumbo, M. Minestrini, M. Rondini, S. Nuvoli, A. Spanu, and B. Palumbo. Comparative evaluation of conventional and deep learning methods for semi-automated segmentation of pulmonary nodules on ct. *Quantitative Imaging in Medicine and Surgery*, 11(7):3286 – 3305, jul 2021

[5] F. Bianconi, A. Fernández, and R.E. Sánchez-Yáñez. Special issue texture and color in image analysis. *Applied Sciences*, 11(9), 2021. Art. no. 3801. Editorial

[6] B. Palumbo, F. Bianconi, S. Nuvoli, A. Spanu, and M.L. Fravolini. Artificial intelligence techniques support nuclear medicine modalities to improve the diagnosis of Parkinson's disease and Parkinsonian syndromes. *Clinical and Translational Imaging*, 9(1):19–35, feb 2021

[7] F. Bianconi and E. Brugnoli. Enumerating necklaces with transitions. *Bulletin of the Australian Mathematical Society*, 2021. In press

Conference proceedings