Francesco BIANCONI

Curriculum vitae

Office

Department of Engineering
Università degli Studi di Perugia
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O bianconif

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

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

Employment

- Associate professor, Department of Engineering, Università degli Studi di Perugia, Italy

 Jul. 2015–present
- Assistant professor, Department of Engineering, Università degli Studi di Perugia, Italy
 Nov. 2000–Jun. 2015
- CAD Engineer (internship), Umbra Cuscinetti SpA, Foligno (Italy) Oct.-Nov. 1998
- Secondary school teacher (Textile Technologies), Istituto Professionale Statale per l'Industria e L'Artigianato, Perugia (Italy)
 Dec. 1997–Jun. 1998
- Secondary school teacher (Civil and Industrial Plants), Istituto Tecnico Statale per Geometri,
 Perugia (Italy)
 Dec. 1997–Jun. 1998
- Secondary school teacher (Applied Mechanics), Istituto Tecnico Industriale Statale, Foligno (Italy)
 Jun.-Jul. 1997

Visiting positions

- Academic visitor, School of Mathematics, Computer Science and Engineering; City, University of London, United Kingdom
 Sep.-Dec. 2018
- Academic visitor, School Electronic Engineering and Computer Science; Queen Mary, University of London, United Kingndom
 Sep.-Dec. 2015
- Visiting research fellow, School of Computing Sciences; University of East Anglia, United Kingdom Oct.–Dec. 2010
- Visiting researcher, School of Industrial Engineering, Department of Engineering Design; Universidade de Vigo, Spain
 Jun.-Jul. 2009

Sep. 2007

Sep. 2006

Sep. 2005

Teaching

Undergraduate courses

- Computer skills (2 CFU¹), Università degli Studi di Perugia, Department of Engineering, BEng Mechanical Engineering
 2012–present
- Technical Drawing (5 CFU) + Computer skills (2 CFU), Università degli Studi di Perugia, Department of Engineering, BEng Industrial Engineering
 2005-present
- Technical Drawing (6 CFU) + Computer skills (2 CFU), Università degli Studi di Perugia, Department of Engineering, BEng Management Engineering 2017–present
- Machine Drawing (10 CFU) + Computer skills (2 CFU), Università degli Studi di Perugia, Department of Engineering, BEng Mechanical Engineering
 2008–2012
- Machine Drawing (6 CFU) Università degli Studi di Perugia, Department of Engineering, BEng Mechanical Engineering
 2000–2007
- Technical Drawing (5 CFU) Università degli Studi di Perugia, Department of Engineering, BEng Materials Engineering
 2000–2004
- CAD Laboratory (2 CFU) Università degli Studi di Perugia, Department of Engineering, BEng Materials Engineering
 2003–2005

Post-graduate courses

- Product Design and Development (6 CFU), Università degli Studi di Perugia, Department of Engineering, MEng Industrial Engineering
- Design Methods of Industrial Engineering (6 CFU), Università degli Studi di Perugia, Department of Engineering, MEng Mechanical Engineering
 2008–2009

Post-master courses and continuous education

- Computer-aided Design (2,75 CFU), Università degli Studi di Perugia, Graduate Teacher Training Programme
- Computer-aided Design (4 CFU), Università degli Studi di Perugia, Faculty of Engineering postmaster course in Materials Engineering
- Technical Drawing I (1,75 CFU), Università degli Studi di Perugia, Graduate Teacher Training Programme
- Technical Drawing II (2 CFU), Università degli Studi di Perugia, Graduate Teacher Training Programme

¹Stands for *Credito Formativo Universitario*. This is the unit used in the Italian higher education system to measure and assess the student's work and effort. The minimum number of required credits is 180 for a Bachelor's and 120 for a Master's degree.

Short courses

- Fundamentals of Engineering Drawing: Theory and Applications (10h), FAIST Componenti S.p.A,
 Montone, Italy,
- Fundamentals of Pattern Recognition and Image Processing (10h), Universidade de Vigo, Spain,
 Doctoral Programme in Environmental Engineering
 Jun. 2009
- Introduction to Technical Drawing (15h), Black & Decker Italia, Corciano, Italy
 Dec. 2008–Jan. 2009
- Introduction to CAD/CAE (10h), Master in Virtual Engineering, ITT s.c.a.r.l, Umbertide, Italy 2005
- Introduction to Object-oriented Programming in C/C++, Università degli Studi di Perugia, Italy,
 Doctoral Programme in Industrial Engineering
 Apr.-May 2004

Teaching in Erasmus interchange programmes

- Expresión Gráfica (Technical Drawing, 6h). BSc Energy Engineering and Mining, and BSc Energy Resources and Engineering, Universidade de Vigo, Spain

 Dec. 2013
- Expresión Gráfica (Technical Drawing, 6h). BSc Engineering of Industrial Technologies, BSc Management Engineering, BSc Electrical Engineering, BSc Mechanical Engineering, BSc Industrial Automation and Electronic Engineering, and BSc Industrial Chemical Engineering, Universidade de Vigo, Spain
- Expresión Gráfica (Technical Drawing, 8h). BSc in Industrial Engineering, Universidade de Vigo,
 Spain

 Apr. 2019

Talks

- Advances in modelling and analysis of the human body by computational imaging (with G. Pascoletti). Keynote lecture, 2nd International Congress on Engineering Sciences and Multidisciplinary Approaches, Istanbul, Turkey
 18 Sep. 2021
- Radiomics in medical imaging: an overview. Invited talk, IET Webinar Recent advances in Medical Image Analysis
 25 Jun. 2021
- Texture and colour descriptors for visual recognition: historical overview and applications to computer vision and robotics. Keynote lecture, The 2020 International Conference on Control, Automation and Diagnosis (ICCAD'20), Paris, France
 7 Oct.
 2020
- Role of artificial intelligence techniques (automatic classifiers) in molecular imaging modalities in neurodegenerative diseases (with B. Palumbo). Invited talk, short course in Big Data, Radiomics & Artificial Intelligence; Italian Association for Medical Physics (AIFM), Reggio Emilia, Italy 15-16 Dec. 2017
- Towards a procedural model for CAD data exchange; 5th workshop on Design Tools and Methods in Industrial Engineering, Pisa, Italy,
 21-23 Mar. 2005

- Collaborative CAD modeling and construction of augmented CAD models; 4th workshop on Design Tools and Methods in Industrial Engineering, Erice, Italy
 29 Sep.-1 Oct. 2003
- Approaches for integration of CAD/CAM/CAE systems; 3rd Workshop on Design Tools and Methods in Industrial Engineering, Firenze, Italy
 27-28 Jun. 2002
- Interface-based methods for data exchange among CAx systems; 2nd Workshop on Design Tools and Methods in Industrial Engineering, Perugia, Italy
 5-6 Jul. 2001
- Collaborative design and data exchange through STL files; 1st Workshop on Design Tools and Methods in Industrial Engineering, Parma, Italy
 Sep. 2000

Seminars

- Texture and colour descriptors for visual recognition: an overview of methods applications. Doctoral programme in Industrial and Information Engineering, Università degli Studi di Perugia, Italy 23 Jun. 2021
- Hand-designed descriptors vs. pre-trained convolutional networks: a comparison of two strategies for colour texture classification. School of Mathematics, Computer Science and Engineering; City, University of London, United Kingdom
 20 Nov. 2018
- Texture description through histograms of equivalent patterns: A unifying Framework for LBP and related methods. School of Computing Sciences, University of East Anglia, United Kingdom 9 Dec. 2015
- Texture description through histograms of equivalent patterns: A unifying Framework for LBP and related methods. School of Electronic Engineering and Computer Science; Queen Mary, University of London, United Kingdom
 22 Sep. 2015
- Introduction to computer vision, School of Industrial Engineering, Universidade de Vigo, Spain 21 Jan. 2014
- Fundamentals of pattern recognition and colour image analysis, School of Industrial Engineering,
 Universidade de Vigo, Spain
 27 Nov. 2012
- Introduction to pattern recognition and computer vision with applications in the industry, School of Industrial Engineering, Universidade de Vigo, Spain
 24 Jan. 2012
- Colour vision and pattern recognition. School of Industrial Engineering, Universidad de Vigo,
 Spain
 11 Jan. 2011
- Automatic characterization of materials appearance through texture and colour analysis. School of Computing Sciences, University of East Anglia, United Kingdom
 15 Oct. 2010
- Data exchange among CAD/CAM/CAE systems: problems and perspectives. Università degli Studi dell'Aquila, Italy
 16 Dec. 2004

Tutorials

 Colour texture analysis and classification (with C. Cusano and P. Napoletano), 5th Computational Colour Imaging Workshop (CCIW'17), Milan, Italy
 29 Mar. 2017

Supervision of PhD dissertations

R. Bello-Cerezo Colour texture classification at the end of the 'early' years: hand-designed descriptors or pre-trained convolutional neural networks? Doctoral Programme in Industrial and Information Engineering, Università degli Studi di Perugia, Italy

Apr. 2019

Supervision of BSc and MSc theses

- Thirty BSc and MSc theses within the Department of Engineering, Università degli Studi di Perugia, Italy
- Eight MSc theses within the School of Industrial Engineering, Universidade de Vigo, Spain

Research projects

As principal investigator

• Caratteristiche di forma, colore e tessitura per l'analisi di immagini piane e volumetriche: metodi ed applicazioni (Shape, colour and texture features for the analysis of two- and three-dimensional images: methods and applications). Fundamental research grants, Department of Engineering, Università degli Studi di Perugia, Italy. Amount granted: € 2.751,32. 2020-2021

As investigator/participant

- Artificial intelligence for Earth observation. Fundamental research grants, Department of Engineering, Università degli Studi di Perugia, Italy. Amount granted: € 3000,00. 2021-2022
- Algoritmi classici e di Machine Learning per lo sviluppo di modelli sperimentali "data driven" per applicazioni robotiche e per la classificazione di prodotti industriali (Traditional and Machine Learning algorithms for developing data-driven robotics applications and for automatic classification of industrial products). Fundamental research grants, Department of Engineering, Università degli Studi di Perugia, Italy. Amount granted: € 5600,00.
- Identificación basada en objetos de cultivos hortícolas bajo invernadero a partir de stereo imágenes del satélite WorldView-3 y series temporales de Landsat-8 Ref. AGL2014-56017-R (Object-based identification of greenhouse horticultural crops through satellite stereo imagery from WorldView-3 and time series from Landsat-8). Ministry of Economy and Competitiveness, Spain; Universidad de Almería, Spain. Amount granted: € 85.000,00.
- BioMeTron: Un nuovo approccio integrato e multidisciplinare per lo studio, la gestione e la progettazioni di impianti biologici per l'energia e l'ambiente (A new multi-disciplinary, integrated approach for studying, designing and managing biological plants for energy and the environment). Fundamental research grants, Department of Engineering, Università degli Studi di Perugia, Italy. Amount granted: € 14.000,00.
- LIFE12 ENV/IT/000411 Enhanced material recovery and environmental sustainability for small scale waste management systems. European Commission. 2013-2018
- GEOEYE1-WV2: Generación de datos georeferenciados de muy alta resolución a partir de imágenes de los satélites GeoEye-1 Y WorldView-2 ref. CTM2010-16573 (Generation of high resolution

- geo-referenced data from GeoEye-1 and WorldView-2 satellite images). Ministry of Science and Education, Spain; Universidad de Almería, Spain. 2011-2013
- EFESO: Environmental Friendly Energy from Solid Oxide Fuel Cells. Ministry of Economic Development, Italy. Total amount granted: € 10.922.360,00 2009-2011
- Modeling, simulation and experimental evaluation of materials for Industrial and Civil Engineering.
 Consortium for the development of the University District, Terni, Italy. Amount granted: €
 73.000,00
- Sistemi innovativi per la gestione e la condivisione delle informazioni di prodotto in ambienti CAx (Innovative systems for sharing and managing product data in CAx environments). Ministry of Education, University and Research; PRIN programme 2005, Italy. Amount granted: € 73.000,00 2007-2008

Other grants and fellowships for teaching, research and consultancy

- FFABR: Finanziamento delle Attività Base di Ricerca (Funding for Basic Activities Related to Research). National Agency for the Evaluation of Universities and Research Institutes, Italy. Amount: € 3000,00.
- Introduction to Engineering Drawing: Theory and applications. Faist Componenti S.p.A., Montone (PG), Italy. Grant type: teaching and consultancy. Amount: € 3000,00.
- Introduction to Engineering Drawing: Theory and applications. Faist Componenti S.p.A., Montone (PG), Italy. Grant type: teaching and consultancy. Amount: € 1500,00.
- Introduction to Engineering Drawing: Theory and applications. Faist Componenti S.p.A., Montone (PG), Italy. Grant type: teaching and consultancy. Amount: € 1000,00.
- Introduction to Computer Vision. Universidade de Vigo, Spain. Grant type: teaching. Amount:
 € 500,00.
- Fundamentals of pattern recognition and colour image analysis. Universidade de Vigo, Spain. Grant type: teaching. Amount: € 500,00.
- Fundamentals of pattern recognition and colour image analysis. Universidade de Vigo, Spain.
 Grant type: teaching. Amount: € 1200,00.
- Colour vision and pattern recognition. Universidade de Vigo, Spain. Grant type: teaching. Amount: € 1200,00.
- Digital image processing and pattern recognition. Universidade de Vigo, Spain. Grant type: teaching. Amount: € 1800,00.
- Introduction to Engineering drawing, materials and manufacturing processes. Black & Decker Italia S.p.A., Corciano (PG), Italy. Grant type: teaching and consultancy. Amount: € 6000,00. 2008-2009
- Characterization of the visual appearance of ornamental stone through combination of classifiers.
 Universidade de Vigo, Spain. Grant type: visiting fellowship. Amount: € 1200,00.
 2006

- Characterization of the visual appearance of natural stones (marble and granite) through image processing and artificial intelligence. National Research Council, Italy. Grant type: Short-term mobility fellowship. Amount: € 1.787,87.
- Design and optimisation of shelters. O.M.C. Srl, Passignano (PG), Italy. Grant type: consultancy.
 Amount: € 5.760,00.

Editorial work

- Academic Editor for *PLOS One* (e-ISSN: 1932-6203) Jun. 2020-present
- Academic Editor for *Applied Sciences* (e-ISSN: 2076-3417) Nov. 2020-present
- Managing Guest Editor of the Virtual Special Issue 'Visual dEscriptors for TexturE Recognition: from Gabor to deep leArNing (VETERAN)', Pattern Recognition Letters (ISSN: 0167-8655) closing Sep. 2022
- Guest Editor of the Special Issue 'Automated Product Inspection for Smart Manufacturing', Applied Sciences (e-ISSN: 2076-3417)
 closing Mar. 2021
- Guest Editor of the Special Issue 'Artificial intelligence in Image-Based Diagnostics of Oncological and Neurological Disorders', *Diagnostics* (ISSN 2075-4418)
 closing Dec. 2021
- Guest Editor of the Special Issue 'Texture and Colour in Image Analysis', Applied Sciences (e-ISSN: 2076-3417)
 closed Apr. 2020
- Reviewer for:

Applications in Engineering Science (2 manuscript revised); Applied Mathematics and Computation (2); Algorithms (3), Applied Sciences (11), Archaeometry (1), Automation in Construction (3); Autosoft Journal (2), BMC Medical Imaging (1), Biosystems Engineering (1), Cancer Imaging (3), Cancer Investigation (1), Cancer Medicine (1), Cancer Management and Research (1), Computers and Electronics in Agriculture (1), Computers in Industry (2), Computer Methods and Programs in Biomedicine (3), Concurrency and Computation: Practice and Experience (1), Diagnostics (1), Digital Signal Processing (4), Dyna-Colombia (1), Ecological Informatics (1), Electronics (1), Energy and Buildings (1), Entropy (2), Engineering Computations (1), Expert Systems With Applications (9), European Radiology (1), Fibers and Polymers (1), Food Science and Applied Biotechnology (1), Frontiers Oncology (1), Future Generation Computer Systems (1), EURASIP Journal on Image and Video Processing (1), IEEE Journal of Biomedical and Health Informatics (1), IEEE Signal Processing Letters (2), IEEE Transactions on Circuits and Systems for Video Technology (1), IEEE Transactions on Emerging Topics in Computational Intelligence (1), IEEE Transactions on Image Processing (19), IEEE Transactions on Medical Imaging (1), IEEE Transactions on Multimedia (2), IEEE Transactions on Signal Processing (1), IET Image Processing (2), IET Signal Processing (2), IET Computer Vision (2), Information (1), Información Tecnológica (1), Integrated Computer-aided Engineering (1), Intelligent Automation and Soft Computing (1), International Journal of Computer Applications in Technology (1), International Journal of Continuing Engineering Education and Life-Long Learning (1), International Journal of Cosmetic Science (1), International Journal of Multimedia Information Retrieval (1), International Journal of Neural Systems (2), Journal of Applied Remote Sensing (1), Journal of Cancer Research and Clinical Oncology (1), Journal of Computational Methods in Sciences and

Engineering (1), Journal of Electronic Imaging (9), Journal of King Saud University (1), Journal of Imaging (2), Journal of Imaging Science and Technology (1), Journal of Medical Imaging (1), Journal of Medical Imaging and Health Informatics (9), Journal of the Optical Society of America – A (1), Journal of Visualization (3), Journal on Computing and Cultural Heritage (1), Knowledge-Based Systems (3), Machine Vision and Applications (1), Measurement (2), Medical Image Analysis (2), Microscopy Research & Technique (1), Molecular Imaging and Biology (2), Multidimensional Systems and Signal Processing (7), Nanomaterials (1), Neurocomputing (1), Optical Engineering (4), Optics and Lasers in Engineering (7), Optik - International Journal for Light and Electron Optics (1), Opto-Electronics Review (1), Pattern Analysis and Applications (1), Pattern Recognition (9), Pattern Recognition Letters (9), Photogrammetric Engineering and Remote Sensing (2), PlosONE (3), Radiation Oncology (1), Remote Sensing (2), Respiratory Research (1), Scientific Reports (3), Signal Processing (1), SN Applied Sciences (2), Surfaces & Coatings Technology (1), Sensors (9), Solar Energy Materials & Solar Cells (1), Superficies y Vacío (1), Symmetry (4), Textile Research Journal (1), Theranostics (1), Turkish Journal of Agriculture and Forestry (1).

Organisation of scientific events

As member of the organising committee, track organiser or other leading roles

- The 6th International Conference on Control, Automation and Diagnosis; Paris, France. Role: co-publication chair
- The 5th International Conference on Control, Automation and Diagnosis; Paris, France. Role: co-publication chair
- Texture Analysis, Classification and Retrieval (TAILOR), in conjunction with the 25th Int. Conf. on Pattern Recognition (ICPR), Milan, Italy. Role: workshop organiser
- The 10th KES International Conference on Intelligent Interactive Multimedia: Systems and Services; Vilamoura, Portugal. Role: session organizer and chair (*Processing visual data in intelligent systems: methods and applications*)

0.1 As member of the TPC/IPC

Publications

Selected (sorted by date, newest first)

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

Edited books

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] F. Bianconi, A. Fernández, F. Smeraldi, and G. Pascoletti. Colour and texture descriptors for visual recognition: A historical overview. *Journal of Imaging*, 7(11), nov 2021. Art. no. 245
- [2] 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
- [3] 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
- [4] 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
- [5] 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
- [6] 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
- [7] 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
- [8] F. Bianconi and E. Brugnoli. Enumerating necklaces with transitions. *Bulletin of the Australian Mathematical Society*, 2021. In press
- [9] F. Bianconi, J.N. Kather, and C.C. Reyes-Aldasoro. Experimental assessment of color deconvolution and color normalization for automated classification of histology images stained with hematoxylin and eosin. *Cancers*, 12(11), nov 2020. Art. no. 3337

- [10] B. Palumbo, F. Bianconi, I. Palumbo, M.L. Fravolini, M. Minestrini, S. Nuvoli, M.L. Stazza, M. Rondini, and A. Spanu. Value of shape and texture features from 18F-FDG PET/CT to discriminate between benign and malignant solitary pulmonary nodules: An experimental evaluation. *Diagnostics*, 10, sep 2020. Art no. 696
- [11] E. Chirikhina, A. Chirikhin, P. Xiao, S. Dewsbury-Ennis, and F. Bianconi. In vivo assessment of water content, trans-epidermialwater loss and thickness in human facial skin. *Applied Sciences*, 10(17), sep 2020. Art. no. 6139
- [12] C. Buratti, E. Belloni, F. Merli, and F. Bianconi. Experimental characterization of the color rendering properties of transparent monolithic aerogel. *Solar Energy*, 205:183–191, jul 2020
- [13] B. Palumbo, R. Capozzi, F. Bianconi, M.L. Fravolini, S. Cascianelli, S.G. Messina, G. Bellezza, A. Sidoni, F. Puma, and M. Ragusa. Classification model to estimate MIB-1 (Ki 67) proliferation index in NSCLC patients evaluated with 18F-FDG-PET/CT. *Anticancer Research*, 40(6):3355–3360, jun 2020
- [14] S. Nuvoli, A. Spanu, M.L. Fravolini, F. Bianconi, S. Cascianelli, G. Madeddu, and B. Palumbo. [123I]metaiodobenzylguanidine (MIBG) cardiac scintigraphy and automated classification techniques in Parkinsonian disorders. *Molecular Imaging and Biology*, 22(3):703–710, jun 2020
- [15] F. Bianconi, I. Palumbo, A. Spanu, S. Nuvoli, M.L. Fravolini, and B. Palumbo. PET/CT radiomics in lung cancer: An overview. *Applied Sciences*, 5(10), mar 2020. Art. no. 1718
- [16] F. Smeraldi, F. Bianconi, A. Fernández, and E. González. Partial order rank features in colour space. *Applied Sciences*, 10(2), jan 2020. Art. no. 499

Conference proceedings

- [1] F. Bianconi. Experimental analysis of colour constancy and colour augmentation for painting classification by artistic genre: preliminary results. In *Proceedings of the 2nd International Conference Florence Heri-Tech: The Future of Heritage Science and Technologies, HERITECH 2020*, volume 949 of *IOP Conference Series: Materials Science and Engineering*, Florence, Italy, oct 2020. Art. no. 012065
- [2] F. Bianconi, M.L. Fravolini, I. Palumbo, and B. Palumbo. Shape and texture analysis of radiomic data for computer-assisted diagnosis and prognostication: an overview. In C. Rizzi, A.O. Andrisano, F. Leali, F. Gherardini, F. Pini, and A. Vergnano, editors, *Proceedings of the International Conference on Design Tools and Methods in Industrial Engineering (ADM)*, Lecture Notes in Mechanical Engineering, pages 3–14, Modena, Italy, sep 2019. Springer