

PAUL DAN CRISTEA

Universitatea "Politehnica" din București

Centru de Inginerie Biomedicală

Splaiul Independenței nr. 313, CP 060042, București, România

Tel/Fax: +40-21-316.95.68, +40-21-316.95.69

email: pcristea@dsp.pub.ro, <http://www.dsp.pub.ro>

LISTA DE PUBLICAȚII

1. Semnale genomice

1.1. Articole publicate în reviste de specialitate

1. P. D. Cristea, **Digital representation and analysis DNA genomic data**, *Proceedings of the Romanian Academy, Series A: Mathematics, Physics, Technical Sciences, Informatics Science*, vol. **5**, no. 2, May-August 2004, pp. 213-222. (1)
2. P. D. Cristea, **Multiresolution analysis of DNA sequences**, *Intelligent Systems in Medicine, Selected papers from ECIT 2004*, Edit. Performantica, ISBN 973-7994-82-5, Iași 2004, pp. 9-19. (2)
3. P. D. Cristea, **Genomic Signals of Re-Oriented ORFs**, *EURASIP – Journal on Applied Signal processing, Special Issue on Genomic Signal Processing*, vol. 2004, no.1, January 1, 2004, pp. 132-137. (3)
4. P. D. Cristea, **Phase and fractal analysis DNA and reoriented reading frame genomic signals**, *Rev. Roum. Sci. Techn. Electrotechn. et Energ.*, Bucharest, tome **48**, no. 2-3, 2003, pp. 429-440. (4)
5. P. D. Cristea, **Large Scale Features in DNA Genomic Signals**, *ELSEVIER, Signal Processing, Special Issue on Genomic Signal Processing*, vol. **83**, 2003, pp. 871-888. (5)
6. P. D. Cristea, **Large Scale and Global Features of Complex Genomic Signals**, *SFM'02 – Saratov Fall Meeting, International School for Young Scientists and Students on Optics, Laser Physics & Biophysics and Workshops*, Internet Invited Lectures –7, Saratov, Russia, October 1-4, 2002, <http://optics.sgu.ru/SFM/2002/internet>, published in *Proceedings of SPIE*, vol. 5068 – *Optical Technologies in Biophysics and Medicine IV*, ISSN 0277-786X, ISBN 0-8194-4927-X605-7422, 2003, pp. 112-121. (6)
7. P. D. Cristea, **Conversion of Nucleotides Sequences into Genomic Signals**, *Journal Cellular and Molecular Medicine, Internat. J.*, vol. **6**, 2, April – June 2002, pp. 279-302 (7)
8. P. D. Cristea, **Genetic Signals**, *Rev. Roum. Sci. Techn. Electrotechn. et Energ.*, Bucharest, tome **46**, no. 2, 2001, pp. 189-203. (8)

1.2. Cărți și capitole de carte

1. P. D. Cristea, Chaper 1: **Representation and Analysis of DNA sequences**, in book: *Genomic Signal Processing and Statistics*, Editors: E.G. Dougherty, I. Shmulevici, Jie Chen, Z. Jane Wang, Book Series on Signal Processing and Communications, Hidawi Publishing Corporation, 2005, pp. 15-65. (9)
2. P. D. Cristea, **An Efficient Algorithm for Measuring Fractal Dimension of Complex Sequences**, Chapter 3. *Biology and Genetics*, in book *Interdisciplinary applications of fractal and chaos theory*, Editors: R. Dobrescu, C. Vasilescu, Editura Academiei Române, București, 2004, ISBN: 973-27-1070-5, pp. 172-180. (2.28 republished) (10)
3. Rodica Tuduce, M. Sultan, C. Rangu, P. D. Cristea, **Hutchinson Metric in Fractal Dna Analysis – A Neural Approach**, Chapter 3. *Biology and Genetics*, in book *Interdisciplinary applications of fractal and chaos theory*, Editors: R. Dobrescu, C. (11)

Vasilescu, Editura Academiei Române, București, 2004, ISBN: 973-27-1070-5, pp. 196-202. (2.20 republished)

4. P. D. Cristea, G. A. Popescu, **Fractal Dimension of Human Chromosome 22**, Chapter 3. *Biology and Genetics*, in book *Interdisciplinary applications of fractal and chaos theory*, Editors: R. Dobrescu, C. Vasilescu, Editura Academiei Române, București, 2004, ISBN: 973-27-1070-5, pp. 203-210. (2.19 republished) (12)
5. P. D. Cristea, **Multiresolution Analysis of DNA FASTA Sequences**, *Intelligent Systems in Medicine*, Selected papers from ECIT 2004, Edit. Performantica, Iași 2004, ISBN 973-7994-82-5, pp. 9-19. (2.9 republished) (13)

1.3. Articole publicate în volume cu referenți ale unor conferințe internaționale

1. P. D. Cristea, **Genomic Signal Analysis of pathogen variability**, *SPIE - BIOS 2006 – Conference on Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues IV* San Jose, California USA, vol. 6088, San Jose, USA, January 23-25, 2006, paper 25, pp. 84 (14)
2. P. D. Cristea, **Genomic Signal Analysis of HIV-1 Clade F Gene Variability**, *EUROCON 2005 – The International Conference on “Computer as a Tool*, IEEE Catalog Number: 05EX1255C, Invited Plenary Paper – PL 04, ISBN: 1-4244-0050-3, Belgrade, Serbia and Montenegro, November 21-24, 2005 (15)
3. P. D. Cristea, Rodica Tuduce, D. Otelea, **HIV Reverse Transcriptase Gene**, *IWSSIP’05 – 12th International Workshop on Systems, signals & image processing*, Chalkida – Greece, September 23-24, 2005. (16)
4. P. D. Cristea, **Genomic Signal Pathogen Variability Study**, *ICTAMI 2005 – 4th International Conference on Theory & Applications of Mathematics & Informatics*, Albac – Alba Iulia, Romania, September 15-18, 2005. (17)
5. P. D. Cristea, D. Otelea, Rodica Tuduce, **Study of HIV Variability Based on Genomic Signal Analysis of Protease and Reverse Transcriptase Genes**, *EMBC’05 – 27th Annual International Conference of the IEEE Engineering in Medicine and Biology Society*, September 1-4, 2005, Shanghai, China, IEEE Catalog no: 05CH37611; ISBN: 0-7803-8740-6, ISSN: 1094-687X, abstract pp. 360, full paper on CD, no. 1845. (18)
6. I. Năstac, P. D. Cristea, **Neuro-Adaptive Forecasting for Nonstationary Sequences**, *SOFA 2005 – IEEE International Workshop on Soft Computing Applications*, Szeged – Hungary & Arad – Romania, 27-30 August 2005, pp. 179-186. (19)
7. P. D. Cristea, Rodica Tuduce, B. Pavaloiu, M. Andrei, **Genomic Signal Analysis of HIV Reverse Transcriptase Gene**, *SOFA 2005 – IEEE International Workshop on Soft Computing Applications*, Szeged – Hungary & Arad – Romania, 27-30 August 2005, pp. 243-250. (20)
8. P. D. Cristea, M. Andrei, **Method for the Analysis of RNA Secondary Structure**, *GSP 2005 – International Workshop on Genomic Signal Processing*, University POLITEHNICA of Bucharest, Bucharest, Romania, July 11 – 13, 2005. (21)
9. Paul CRISTEA, Rodica TUDUCE, **Variability study of HIV**, *GSP 2005 – International Workshop on Genomic Signal Processing*, University POLITEHNICA of Bucharest, Bucharest, Romania, July 11 – 13, 2005. (22)
10. I. Năstac, P. D. Cristea, **DNA Sequences Forecasting using an Adaptive Retraining Procedure**, *GSP 2005 – International Workshop on Genomic Signal Processing*, University POLITEHNICA of Bucharest, Bucharest, Romania, July 11 – 13, 2005. (23)
11. P. D. Cristea, B. Pavaloiu, **Method for Small Genome Variability Studies**, *GSP 2005 – International Workshop on Genomic Signal Processing*, University POLITEHNICA of Bucharest, Bucharest, Romania, July 11 – 13, 2005. (24)

12. P. D. Cristea, **A Genomic Model for Gene's Structural Variations Promience**, *HWSR 2005, The First International Humboldt Workshop on Surgical Research*, Parc Hotel, Bucharest, Romania, May 5-7, 2005 (25)
13. P. D. Cristea, **Structural and Functional Variability in PR Gene of HIV1 Clade F**, *CSCS-15 – 15th International Conference on Control Systems and Computer Science, IAFA 2005 – Interdisciplinary Applications of Fractal Analysis*, University “Politehnica” of Bucharest, Bucharest, Romania, May 25-27, 2005. (26)
14. P. D. Cristea, D. Otelea, Rodica Tuduce, **Genomic Signal Analysis of HIV Variability**, *SPIE - BIOS 2005 – Conference on Imaging, Manipulation, and Analysis of Biomolecules, Cells, and Tissues II*, San Jose, California USA, vol. 5699, San Jose, USA, January 24-27, 2005, paper 52, published in *Progress in Biomedical Optics and Imaging, Imaging, Manipulation, and Analysis of Biomolecules and Cells: Fundamentals and Applications III*, Editors/Chairs: D. V. Nicolau, J. Enderlien, R. C. Leif, D. L. Farkas, R. Raghavachari, Proceedings of SPIE, Vol. 6, no. 14, ISSN 1605-7422, 2005, pp. 362-372. (27)
15. P. D. Cristea, **Genomic Signals Conversion and Processing**, *IEEE International Workshop on Biomedical Circuits & Systems*, Singapore, December 1-3, 2004, Tutorial. (28)
16. P. D. Cristea, **Invariants of DNA Genomic Signals**, *SPIE - AU 104 – International Conference on Biomedical Applications of Micro- and Nano-engineering*, University of New South Wales, Sydney, Australia, December 13–15, 2004, vol. 5651, published in *Progress in Biomedical Optics and Imaging, Biomedical Applications of Micro- and Nano-engineering II*, Editor/Chair D. V. Nicolau, Vol. 5, no. 34, ISSN 1605-7422, 2005, pp. 115-125. (29)
17. P. D. Cristea, **Morphological and Functional Statistical Features of DNA Molecules**, *SNET 2004 – National Symposium of Theoretical Electrical Engineering*, Ediție Omagială dedicată împlinirii a 100 de ani de la nașterea marelui savant român Remus Răduleț, București, Romania, October 22-23, 2004, pp.125-130. (30)
18. P. D. Cristea, **Inversion of DNA Segments**, *ISEE – International Symposium on Electrical Engineering*, University Valachia Târgoviste, October 27 – 29, 2004. (31)
19. P. D. Cristea, **Signal Representability**, *IWSSIP' 04 – International Workshop on Systems, Signals and Image Processing*, Poznan, Poland, September 13-15, 2004, ISBN 83-906074-8-4, pp.367-370. (32)
20. P. D. Cristea, **A Model of Chromosome Longitudinal Structure**, *NEUREL 2004 – 7th Seminar on Neural Network Applications in Electrical Engineering*, Faculty of Electrical Eng. University of Belgrade, Serbia - Montenegro, September 23-25, 2004, pp. 145-150. (33)
21. P. D. Cristea, **Representability of Genomic Signals**, *EMBS 2004 – 26th Annual International Conference IEEE Engineering in Medicine and Biology Society*, San Francisco, California, USA, September 1-5, 2004, pp. 326. (34)
22. P. D. Cristea, **Multiresolution Analysis of DNA FASTA Sequences**, Proceedings of *ECIT 2004 – Third European Conference on Intelligent Systems and Technologies*, Invited Plenary Paper, Iași, Romania, July 21-23, 2004, pp. 9-19. (35)
23. P. D. Cristea, **Visualization of Genomic Data – The Signal Representability Problem**, *2nd European Symposium on Biomedical Engineering*, Patras, GR, Plenary Session, June 26-27, 2004, pp. 25-28. (36)
24. P. D. Cristea, **Intelligent Analysis of Genomic Data**, *2nd Summer School on Emerging Technologies in Biomedicine*, Patras, Greece, Invited Speaker, Plenary Session, June 20-25, 2004 (37)
25. P. D. Cristea, **Data Representability – the Case of Genomic Signals**, Proceedings of *ICCC 2004 – International Conference on Computers and Communications*, Băile Felix Spa – Oradea, Romania, May 27-29, 2004, pp. 98-104. (38)

26. P. D. Cristea, **Multiresolution Phase Analysis of Genomic Signals**, *ISCCSP 2004 - 1st International Symposium on Control, Communications & Signal Processing, Signal Processing in Biological Sciences*, Hammamet, Tunisia, March 21-24, 2004, pp. 743-6 (39)
27. P. D. Cristea, **Genomic Signals of Chromosomes and of Concatenated Reoriented Coding Regions**, *BIOS 2004 - International Biomedical Optics Symposium, Conference 5322 – Manipulation and Analysis of Biomolecules, Cells and Tissues*, San Jose, USA, January 27-28, 2004, pp. 29-4 (40)
28. P. D. Cristea, Rodica Tuduce, **Signal processing of genomic information: Mitochondrial genomic signals of hominidae**, *4th EURASIP Conference, EC-VIP-MC 2003*, Zagreb, Croatia, July 2-4, 2003, pp. 209-214. (41)
29. P. D. Cristea, **Analysis of DNA and Re-Oriented Reading Frame Genomic Signals**, *SNET 2003 – National Symposium of Theoretical Electrical Engineering, Electrical Engineerin Faculty, University “Politehnica” of Bucharest*, Bucharest, Romania, June 18, 2003, ISBN 973-652-800-6, pp. 169-192. (42)
30. P. D. Cristea, **Genomic Signals for Whole Chromosomes**, *SPIE Conference, BiOS 2003 – International Biomedical Optics Symposium, Conference BO 4962 – Molecular Analysis and Informatics*, San Jose, USA, January 25-31, 2003, *Proceedings of SPIE, vol. 4962 – Progress in Biomedical Optics and Imaging*, vol. 4, no.14, January 25-31, 2003, ISSN 1605-7422, pp. 194-205. (43)
31. P. D. Cristea, **An Efficient Algorithm for Measuring Fractal Dimension of Complex Sequences**, *IAFA 2003 – The First South-East European Symposium on Interdisciplinary Approaches in Fractal Analysis*, Bucharest, Romania, May 7-10, 2003, ISBN 973 652 778 6, pp. 121-124. (44)
32. P. D. Cristea, G. A. Popescu, **Fractal Dimension of Human Chromosome 22**, *IAFA 2003 – The First South-East European Symposium on Interdisciplinary Approaches in Fractal Analysis*, Bucharest, Romania, May 7-10, 2003, ISBN 973 652 778 6, pp. 131-134. (45)
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34. P. D. Cristea, **Large Scale Features in Prokaryote and Eukaryote Genomic Signals**, *IWSSIP 2002 – 9th – International Workshop on Systems, Signals and Image Processing*, Manchester, UK, November 7-8, 2002. (47)
35. P. D. Cristea, **Statistical and Phase Analysis of Complex Genomic Signals**, *ATEE 2002 – Advanced Topics in Electrical Engineering*, Electrical Engineering Faculty, “Politehnica” University of Bucharest, November 29, 2002, CD-ROM, ISBN 973-652-674-7. (48)
36. P. D. Cristea, **Symbolic and Numeric Representations of DNA Nucleotide Sequences**, *SMACD 2002 – 7th International Workshop on Symbolic Methods and Applications to Circuit Design*, Peles Castle, Sinaia, Romania, October 10-11, 2002, pp. 37-140. (49)
37. P. D. Cristea, Tuduce R., **Statistical Analysis of Symbolic DNA Nucleotide Sequences**, *SMACD 2002 – 7th International Workshop on Symbolic Methods and Applications to Circuit Design*, Peles Castle, Sinaia, Romania, October 10-11, 2002, pp. 141 (50)
38. P. D. Cristea, **Large Scale and Global Features of Complex Genomic Signals**, *SFM’02 – Saratov Fall Meeting, International School for Young Scientists and Students on Optics, Laser Physics & Biophysics & Workshops*, Saratov, Russia, October 1-4, 2002, Internet Invited Lecture –7, <http://optics.sgu.ru/SFM/2002/internet>. (51)

39. P. D. Cristea, **Whole Chromosome Features of Genomic Signals**, *NEUREL 2002, 6th Seminar on Neural Network, Applications in Electrical Engineering*, invited paper, Faculty of Electrical Engineering, Belgrade, Yugoslavia, Sept. 26-28, 2002, pp.1-4 (52)
40. P. D. Cristea, **Genomic Signal Representation and Large Scale Features of DNA Sequences**, *METSIM'2002 – International Conference on Metrology and Measurement Systems*, UPB, Invited plenary lecture, Bucharest, June 27 – 28, 2002. (53)
41. P. D. Cristea, **Genetic Signal Representation and Analysis**, *ISEE – 2002, International Symposium on Electrical Engineering*, University Valachia Targoviste, June 3–4, 2002. (54)
42. P. D. Cristea, **Complex Genomic Signal**, *VIPromCom 2002 – 4th EURASIP – IEEE Region 8 International Symposium on Video / Image Processing and Multimedia Communications*, Zadar, Croatia, June 16 – 19, 2002, pp. 19-24. (55)
43. P. D. Cristea, **Independent Component Analysis for Genetic Signals**, *SPIE Conference, BIOS 2002 – International Biomedical Optics Symposium*, Short Courses, at Bio-Medical Instrumentation, SC316, San Jose, USA, January 21, 2002. (56)
44. P. D. Cristea, **Large Scale and Global Features of Complex Genomic Signals**, *Proceedings of SPIE*, vol. 5068 – *Optical Technologies in Biophysics and Medicine IV*, ISSN 0277-786X, ISBN 0-8194-4927-X605-7422, 2002, pp. 112-12 (57)
45. P. D. Cristea, **Genetic Signal Analysis**, *ISSPA 2001 – The Sixth International Symposium on Signal Processing and its Applications*, Plenary Paper, Kuala Lumpur, Malaysia, August 13 – 16, 2001, pp. 703–706. (58)
46. P. D. Cristea, **Genetic Signals**, *RJSAEM 2001 – Romania–Japan Joint Seminar on Applied Electromagnetics & Mechanics*, Oradea, Romania, Sept. 10–15, 2001, pp. 63-67 (59)
47. P. D. Cristea, **Genetic Signals: An Emerging Concept**, *IWSSIP 2001, 8th International Workshop on Systems, Signals and Image Processing*, Invited Paper, Bucharest, Romania, June 7-9, 2001, pp. 17-22. (60)
48. P. D. Cristea, **Independent Component Analysis for Genetic Signals**, *TAM 2001, organized by Training and Research on Advanced Computing Systems*, March 26, 2001. (61)
49. P. D. Cristea, **Independent Component Analysis for Genetic Signals**, *SPIE Conference, BIOS 2001 – International Biomedical Optics Symposium, Bio-Medical Instrumentation*, Short Course SC 316, San Jose, USA, January 20-26, 200 (62)

1.4. Prezentări de sinteză ca profesor invitat (publicații electronice)

1. P. D. Cristea, **Representation and Analysis of Genomic Signals**, *University of California at Santa Barbara, Electrical and Computer Engineering*, SUA, Jan. 30, 2005. (63)
2. P. D. Cristea, **Genomic Signal Analysis and Processing**, *Northwestern University, Chicago*, SUA, January 28, 2005. (64)
3. P. D. Cristea, **Genomic Signal Analysis and Processing**, *University of Illinois at Chicago*, SUA, January 28, 2005. (65)
4. P. D. Cristea, **Genomic Signal Conversion and Processing**, *Swinburne University of Technology*, Australia, December 10, 2004. (66)
5. P. D. Cristea, **Genomic Signal Analysis of Large Scale Features of Chromosomes and Concatenated Reoriented Coding Regions**, *George Mason University, Department of Computer Science, School of Information Technology and Engineering*, SUA, February 6, 2004. (67)
6. P. D. Cristea, **Representation and Analysis of Genomic Signals**, *University of California at Santa Barbara, Electrical and Computer Engineering*, California, SUA, January 30, 2004. (68)
7. P. D. Cristea, **Representation and Analysis of Genomic Signals**, *RIACS- Reasearch Institute for Advanced Computer Science, NASA Ames Resarch Center*, USA, January 28, 2004. (69)

8. P. D. Cristea, **Genomic Signals**, *FWO Research Community on Image Processing Systems*, Vrije Universiteit Brussel, Brussel, Belgium, March 27, 2002. (70)
9. P. D. Cristea, **Genetic Signals Analysis**, *Tampere International Center for Signal Processing*, Tampere, Finland, August 7, 2000 (71)
10. P. D. Cristea, **Introduction to Genomic Signals**, *Thayer School of Engineering, Department of Computer Science*, Hanover, USA, August, 2000 (72)

2. Prelucrarea numerică a semnalelor și imaginilor

2.1. Articole publicate în reviste de specialitate

1. Munteanu, J. Cornelis, G. Van der Auwera, P. D. Cristea, **Wavelet Image Compression – the Quadtree Coding Approach**, *IEEE Transactions on Information Technology in Biomedicine*, vol. **3**, no. 3, September 1999, pp. 176-185. (73)
2. M. Popescu, P. D. Cristea, A. Bezerianos, **Multiresolutional Distributed Filtering: A Novel Technique that Reduces the Amount of Data Required in High Resolution Electrocardiography**, *Future Generation Computer Systems Journal, Special Issue on Telemedicine*, vol. **15**, no. 2, March 1999, pp. 195-209. (74)
3. A. Munteanu, J. Cornelis, P. D. Cristea, **Wavelet based lossless compression of coronary angiographic images**, *IEEE Transactions on Medical Imaging*, vol. **18**, no. 3, March 1999, pp. 272-28 (75)
4. M. Popescu, S. Papadimitriou, D. Karamitsos, P. D. Cristea, A. Bezerianos, **Adaptive Denoising and Multiscale Detection of the V Wave in Brainstem Auditory Evoked Potentials**, *Audiology & Neuro-Otology Journal*, vol. **4**, January – February 1999, pp. 38-50. (76)
5. A. Munteanu, J. Cornelis, G. Van der Auwera, P. D. Cristea, **Wavelet-based lossless compression scheme with progressive transmission capability**, *International Journal of Imaging Systems and Technology*, John Wiley and Sons Inc., vol. **10**, no. 1, *Special Issue on Image and Video Coding*, edited by Robinson J., and Dony R. D., January 1999, pp. 76-85. (77)
6. P. D. Cristea, J. Cornelis, A. Munteanu, **Progressive lossless coding of medical images**, *ELSEVIER, Future Generation Computer Systems Journal*, 528, vol. **14**, no.1-2, June 1998, pp. 23-32. (78)
7. M. Popescu, N. Laskaris, I. Chiladakis, C. Stathopoulos, P. D. Cristea, A. Manolis, A. Bezerianos, **Beat-to-beat wavelet variance of the QRS complex as a marker of arrhythmogenic substrate in ventricular tachycardia patients**, *Physiological Measurement Journal*, vol. **19**, no. 1, February 1998, pp. 77-92. (79)
8. I. Chiladakis, M. Popescu, N. Laskaris, C. Stathopoulos, P. D. Cristea, A. Bezerianos, A. Manolis, **Wavelet Transform Analysis of HRECG improves detection of sustained Ventricular Tachycardia substrate after myocardial infarction**, *Pacing and Clinical Electrophysiology*, vol. **20**, no5, part II, 1997, pp.15 (80)

2.2. Cărți și capitole de carte

1. A. Munteanu, J. Cornelis, P. D. Cristea, **Wavelet Based Lossless Compression of Coronary Angiographic Images**, 2001, *IMIA Yearbook of Medical Informatics*, Editors R. Haux, C. Kulikowski, Schattauer Publishing Company, Stuttgart, Germany, ISSN 0943-4747, 2001, pp. 465-474 (81)
2. A. Munteanu, P. Schelkens, A. Salomie, J. Cornelis, P. D. Cristea, R. Deklerck, **Wavelet Based Image Compression for Telemedicine**, *Advanced Infrastructures for Future Healthcare*, Editors A. Marsh, L. Grandinetti, T. Kauranne, IOS Press, *Studies in Health Technology and Informatics*, vol. **79**, Section 4, 2000, pp. 407-422. (82)
3. M. Popescu, P. D. Cristea, A. Bezerianos, **Multiresolutional Distributed Filtering: A Novel Technique that Reduces the Amount of Data Required in High** (83)

Resolution Electrocardiography, *Advanced Infrastructures for Future Healthcare*, Editors A. Marsh, L. Grandinetti, T. Kauranne, IOS Press, *Studies in Health Technology and Informatics*, vol. 79, Section 4, 2000, pp. 519-535.

4. M. Popescu, P. D. Cristea, A. Bezerianos, **Wavelet Medical Signal Processing**, *Advanced Infrastructures for Future Healthcare*, Editors A. Marsh, L. Grandinetti, T. Kauranne, IOS Press, *Studies in Health Technology & Informatics*, vol. 79, Sect. 4, 2000, pp. 492-518. (84)

2.3. Articole publicate în volume cu referenți ale unor conferințe internaționale

1. P. D. Cristea, Rodica Tuduce, B. Păvăloiu, **Project of an Intel Wireless Technology Laboratory at the University “Politehnica” of Bucharest**, *Intel® Higher Education Program, 10th EMEA Academic Forum*, Gdansk, Poland, May 18-20, 2005, www.intel.com/education/highered. (85)

2. P. D. Cristea, Rodica Tuduce, **Wireless Technology for Bioinformatics Applications**, *Intel® Higher Education Program, 10th EMEA Academic Forum*, Gdansk, Poland, May 18-20, 2005, www.intel.com/education/highered. (86)

3. P. D. Cristea, Rodica Tuduce, **Wireless networks and Mobile Systems for e-Learning**, *Intel® Higher Education Program, 10th EMEA Academic Forum*, Gdansk, Poland, May 18-20, 2005, www.intel.com/education/highered. (87)

4. P. D. Cristea, **Building of 3D Scenes from Sequences of 2D Images**, *International Conference on Holography, Optical Recording and Processing of Information*, Varna, Bulgaria, 21-25 May 2005, pp. 142 (88)

5. M. D. Kessler, P. D. Cristea, I. Nastac, Barbara Albert-Hehn, **EMPHO-Oxyscan Spectrometer for 2D- and 3D-Imaging in VIS and NIR**, *Proceedings of SPIE, vol. 4623 – Progress in Biomedical Optics & Imaging*, vol. 3, no.15, ISSN 1605-7422, 2002, pp. 110-115. (89)

6. I. Nastac, R. Matei, P. D. Cristea, M. D. Kessler, **Imaging and Learning in Back-Scattering Light by Artificial Neural Networks**, *Proceedings of SPIE, vol. 4623 – Progress in Biomedical Optics & Imaging*, vol. 3, no.15, ISSN 1605-7422, 2002, pp. 124–133 (90)

7. M. D. Kessler, P. D. Cristea, R. Knaelmann, P. Wittwer, **2D – Imaging of Intracapillary Hb-Concentration and Oxygenation in the Skin of Human Forehead in Different Ages**, *Proceedings of SPIE, vol. 4623 – Progress in Biomedical Optics and Imaging*, vol. 3, no.15, ISSN 1605-7422, 2002, pp. 178-186. (91)

8. M. D. Kessler, P. D. Cristea, M. Hiller, T. Trinks, **Two-dimensional imaging of functional structures in perfused pig heart: scattering coefficients of backscattered light and absorption coefficients of cytochromes, myoglobin, and hemoglobin**, *Proceedings of SPIE, vol. 4623 – Progress in Biomedical Optics and Imaging*, vol. 3, no.15, ISSN 1605-7422, 2002, pp. 214-223. (92)

9. R. Raugh, P. D. Cristea, M. Hiller, T. Trinks, M. D. Kessler, **Arrangements of multiple images of human myocardium for information of the surgeon during open heart surgery**, *Proceedings of SPIE, vol. 4623 – Progress in Biomedical Optics and Imaging*, vol. 3, no.15, ISSN 1605-7422, 2002, pp. 224-230 (93)

10. P. D. Cristea, M. Dammann M., Christine Mahlke, **Three-Dimensional Catchment Volume and Penetration Depths of Mitochondria in Scattering Chambers at Different Erythrocytes Concentration**, *SPIE Conference, BIOS 2002 – International Biomedical Optics Symposium, Conf. 4623 – Functional Monitoring and Drug-Tissue Interaction*, San Jose, USA, January 19-25, 2002, paper 4623 – 15. (94)

11. P. D. Cristea, M. Dammann, Christine Mahlke, **Two-dimensional imaging of functional tests of hemoglobin-free liver before and after addition of erythrocytes: local and global O₂ – uptake rate**, *SPIE Conference, BIOS 2002 –* (95)

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12. Rodica Tuduce, P. D. Cristea, **Investigation of spectra distortions caused by changes of μ_s and μ_a** , *SPIE Conference, BIOS 2002 – International Biomedical Optics Symposium*, Conference 4623 – Functional Monitoring and Drug-Tissue Interaction, San Jose, USA, January 19-25, 2002, paper 4623 – 47. (96)
 13. P. D. Cristea, Rodica Tuduce, **Computer modeling of scattering and absorption**, *SPIE Conference, BIOS 2002 – International Biomedical Optics Symposium, Conference 4623 – Functional Monitoring and Drug-Tissue Interaction*, San Jose, USA, January 19-25, 2002, paper 4623 – 60. (97)
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