

Panayiotis V. Frangos
Professor
List of publications and presentations
(updated May 2009)

I. THESES

1. 'The EM inverse scattering problem for layered dispersionless dielectrics', Master's of Science thesis, University of Pennsylvania, USA, 1985.
2. 'One-dimensional inverse scattering: exact methods and applications', Ph.D. dissertation, University of Pennsylvania, USA, 1986.

II. BOOKS

1. P. Frangos, 'Electromagnetic Methods for Remote Sensing', Graduate textbook, 248 pages, Pappasotiriou Publishing Company, National Technical University of Athens, Greece, 1999.

III. JOURNAL PUBLICATIONS AND BOOK CHAPTERS

III.1. BOOK CHAPTERS

1. I. Aliferis, K. Ntanaka and P. Frangos, 'Reconstruction of Sea Bottom Acoustic Parameters Using a Multilayer Model and Obliquely Incident Acoustic Waves' (invited paper), 'Applied Computational Electromagnetics - State of the Art and Future Trends', 14 pages, Springer - Verlag, November 1999 (ISBN : 3-540-65819-X).
2. 'Fractal Electrodynamics : Surfaces and Superlattices' (invited paper), by D.L. Jaggard, A.D. Jaggard and P. Frangos, IEEE Press, Special issue with title 'Frontiers in Electromagnetics, D.H. Werner and Raj Mittra (Editors), pp. 1-47, 2000.

III.2. JOURNAL PUBLICATIONS

3. D. Jaggard and P. Frangos, 'The electromagnetic inverse scattering problem for layered dispersionless dielectrics', IEEE Trans. Ant. Prop., Vol. 35, 8, pp. 934-946, 1987.
4. P. Frangos and D. Jaggard, 'The reconstruction of stratified dielectric profiles using successive approximations', IEEE Trans. Ant. Prop., Vol. 35, 11, pp. 1267-1272, 1987.
5. D. Jaggard, Y. Kim, K. Schultz and P. Frangos, 'Experimental confirmation of nonlinear inverse scattering algorithms', J. Opt. Soc. Amer. A, Vol. 4, pp. 1228-1238, 1987.
6. P. Frangos and D. Jaggard, 'A numerical solution to the Zakharov - Shabat inverse scattering problem', IEEE Trans. Ant. Prop., Vol. 39, 1, pp. 74-79, 1991.
7. P. Frangos and D. Jaggard, 'Analytical and numerical solution to the two - potential Zakharov - Shabat inverse scattering problem', IEEE Trans. Ant. Prop., Vol. 40, 4, pp. 399-404, 1992.
8. P. Frangos, D. Frantzeskakis and C. Capsalis, 'Pulse propagation in a nonlinear optical fiber of parabolic profile by direct numerical solution of the Gel'fand - Levitan - Marchenko integral equations', IEE Proc., J, Vol. 140, 2, pp. 141-149, 1993.
9. P. Frangos, N. Nikitakos and N. Uzunoglu, 'Determination of the natural frequencies of complex objects using a finite-element near-field computation method', J. of Electromagnetic Waves and Applications, Vol. 7, No. 12, 1633 - 1652, 1993.
10. P. Frangos and D. Jaggard, 'Inverse scattering : solution of coupled Gel'fand-Levitan-Marchenko integral equations using successive kernel approximations', IEEE Trans. Ant. Prop., Vol. 43, 6, pp. 547-552, 1995.
11. S. Savaidis, P. Frangos, D. L. Jaggard and K. Hizanidis, 'Scattering from fractally corrugated surfaces : an exact approach', Optics Letters, Vol. 20, No. 23, pp. 2357-2359, 1995.
12. P. Frangos, N. Nikitakos and N. Uzunoglu, 'Electromagnetic field of a plane trapezoid of uniform distribution of current', Electromagnetics Journal, Vol. 16, No. 2, pp. 145-163, 1996.
13. P. Frangos, 'A numerical solution to the Zakharov-Shabat inverse scattering problem with application to solitary wave propagation in nonlinear optical fibers', Optics Communications, Vol. 123, pp. 743-751, 1996.
14. S. Savaidis, P. Frangos, D. L. Jaggard and K. Hizanidis, 'Scattering from fractally corrugated surfaces using the Extended Boundary Condition Method', Journal of the Optical Society of America A, Vol. 14, No. 2, pp. 475 - 485, 1997.

15. P. Frangos, N. Nikitakos and N. Uzunoglu, 'Scattering of electromagnetic waves from complex conducting objects using a finite - element near - field computation method', 'Electromagnetics' Journal, Vol. 17, pp. 185 - 197, 1997.
16. I. Aliferis, K. Danaka, P. Frangos and G. Athanassoulis, 'A multilayer model for the reconstruction of sea bottom acoustic parameters', Journal of Applied Electromagnetism (JAE), Vol. 1, No. 1, pp. 67 - 79, October 1997.
17. C. Papachristos and P. Frangos, 'Design of corrugated optical waveguide filters through a direct numerical solution of the coupled Gel'fand - Levitan - Marchenko integral equations', Journal of the Optical Society of America A, Vol. 19, No. 5, pp. 1005 - 1012, May 2002.
18. C. Papachristos and P. Frangos, 'Synthesis of single- and multi-mode planar optical waveguides by a direct numerical solution of the Gel'fand - Levitan - Marchenko integral equations', Optics Communications, Vol. 203, pp. 27 - 37, 2002.
19. K. Eftaxias, P. Frangos, P. Kapiris, J. Polygiannakis, J. Kopanas, A. Peratzakis, P. Skountzos and D. Jaggard, 'Review and a model of pre-seismic electromagnetic emissions in terms of fractal electrodynamics', 'Fractals' Journal, Vol. 12, No. 2, pp. 243 - 273, 2004.
20. E. Papkelis, I. Psarros, I. Ouranos, Ch. Moschovitis, K. Karakatselos, E. Vagenas, H. Anastassiou and P. Frangos, 'A Radio Coverage Prediction Model in Wireless Communication Systems based on Physical Optics and Physical Theory of Diffraction', IEEE Antennas and Propagation Magazine, Vol. 49, No. 2, pp. 156 - 165, April 2007.
21. Iakovos Ouranos, Petros Stefaneas and Panayiotis Frangos, 'An Algebraic Framework for Modeling of Mobile Systems', IEICE Transactions on Fundamentals of Electronics, Communication and Computer Sciences, Vol. E90-A, No. 9, pp. 1986-1999, September 2007.
22. A. Karakasiliotis and P. Frangos, 'Decimative Spectrum Estimation Method for High - Resolution Radar Parameter Estimates', Journal of Applied Electromagnetism (JAE), Vol. 9, No. 2, pp. 88-97, December 2007.
23. A. V. Karakasiliotis, A. D. Lazarov, P. V. Frangos, G. Boultadakis and G. Kalognomos, 'Two-dimensional ISAR Model and Image Reconstruction with Stepped Frequency Modulated Signal', IET (IEE) Signal Processing Journal, Special Issue on 'ISAR Signal Processing Techniques and Feature Extraction', Vol. 2, Issue 3, pp. 277 - 290, September 2008.
24. A. V. Karakasiliotis, G. Boultadakis, A. D. Lazarov, and P. V. Frangos, 'High-Resolution Stepped Frequency Inverse Synthetic Aperture Radar Imaging Using Time-Frequency Transforms', Journal of Applied Electromagnetism (JAE), June 2008 issue.

25. E. Papkelis, H. Anastassiou and P. Frangos, 'A time – efficient near – field scattering method applied to radio – coverage simulation in urban microcellular environments', IEEE Trans. Antennas and Propagation, Vol. 56, No. 10, pp. 3359 – 3363, October 2008.
26. H. Moshovitis, H. Anastassiou and P. Frangos, 'Calculation results of scattering of electromagnetic waves from rectangular perfectly conducting plate using an extended three dimensional Stationary Phase Method which is based on Fresnel functions (SPM-F)', Journal of Applied Electromagnetism (JAE), December 2008 issue, pp. 68 – 77.
27. S. Sautbekov, I. Kanyngazieva and P. Frangos, 'The generalized solutions of Maxwell equations for the uniaxial crystal', Journal of Applied Electromagnetism (JAE), December 2008 issue, pp. 43 – 55.
28. G. E. Boultsadakis, G. K. Kalognomos, L. K. Stergioulas, A. V. Karakasiliotis, and P. V. Frangos, 'A Comparative Study of Bilinear Time–Frequency Transforms of ISAR Signals for Air Target Imaging', 'Electronics and Electrical Engineering' Journal, accepted for publication, March 2009.
29. Ch. Moschovitis, K. Karakatselos, E. Papkelis, H. Anastassiou, I. Ouranos, A. Tzoulis and P. Frangos, 'High Frequency Analytical Model for Scattering of Electromagnetic Waves from a Perfect Electric Conductor Plate using an Enhanced Stationary Phase Method Approximation', accepted for publication by 'IEEE Trans. Antennas and Propagation', May 2009.

IV. PRESENTATIONS TO INTERNATIONAL SCIENTIFIC CONFERENCES AND SCIENTIFIC WORKING GROUPS

1. D. Jaggard, P. Frangos and Y. Kim, 'Nonlinear inversion techniques for one-dimensional inhomogeneous dielectrics', Proceedings of USA - France Conference on Near Field Microwave Imaging, Georgia, USA, September 1985.
2. P. Frangos and D. Jaggard, 'Inverse scattering for one - dimensional dielectrics', 4th Annual B. Franklin Symposium on Advances in Antennas and Microwave Technology, Philadelphia, USA, 1984.
3. P. Frangos and D. Jaggard, 'Inverse scattering for one - dimensional dispersionless dielectrics', IEEE / Ant. Prop. International Symposium , Boston, USA, 1984.
4. D. Jaggard, P. Frangos and Y. Kim, 'Some nonlinear methods for inverse scattering', 5th Annual B. Franklin Symposium on Advances in Antennas and Microwave Technology, Philadelphia, USA, 1985.
5. D. Jaggard and P. Frangos, 'Inverse scattering for dielectric media', Annual meeting of the Optical Society of America, Washington, USA, 1985.

6. P. Frangos and D. Jaggard, 'A numerical solution to the Zakharov - Shabat inverse scattering problem', IEEE / Ant. Prop. International Symposium, Philadelphia, USA, 1986.
7. P. Frangos, N. Uzunoglu and N. Nikitakos, 'Calculation of the natural frequencies of complex objects using the finite element method', 1st Scientific meeting on 'Study of wave problems', ITE, Iraklion, Crete, 1991.
8. N. Uzunoglu, P. Frangos and P. Tsiganos, 'An inverse scattering method for the determination of the temperature profile in the human body using ultrasonic waves', COMAC-BME International Workshop on Non-Invasive Thermometry, Barcelona, Spain, 1991.
9. P. Frangos, D. Frantzeskakis and C. Capsalis, 'Iterative solution of the problem of pulse propagation in an inhomogeneous nonlinear optical fiber by using the inverse scattering method', 3rd international symposium on recent advances in microwave technology, Reno, Nevada, USA, 1991.
10. P. Frangos, D. Frantzeskakis and C. Capsalis, 'Propagation of an optical pulse in an inhomogeneous nonlinear fiber by using an iterative inverse scattering method', 7th Laser Science Conference, American Physical Society, Monterey, California, USA, 1991.
11. N. Uzunoglu, P. Frangos and P. Tsiganos, 'Application of inverse scattering methods to problems of medical diagnostics', Mechanics Conference on 'Wave Problems for solids and fluids', Aristotle University of Thessaloniki, Thessaloniki, Greece, 1991.
12. P. Frangos, N. Nikitakos and N. Uzunoglu, 'Calculation of the natural frequencies of complex targets', 3rd International Conference on EMs in Aerospace Applications, Torino, Italy, 1993.
13. G. Karonis, D. Kaklamani, P. Frangos and N. Uzunoglu, 'Scattering of a plane wave by a general chiral ellipsoid', 1995 URSI International Symposium on Electromagnetic Theory, St. Petersburg, Russia, May 1995.
14. G. Karonis, D. Kaklamani and P. Frangos, 'Interaction of electromagnetic waves with chiral ellipsoid scatterers', International Conference on Electromagnetics in Advanced Applications (ICEAA 95), Torino, Italy, September 1995.
15. P. Frangos, N. Nikitakos and N. Uzunoglu, 'Electromagnetic field of a plane trapezoid of uniform distribution of current', 8th International Symposium on Theoretical Electrical Engineering, Thessaloniki, Greece, September 1995.
16. P. Frangos, Y. Aliferis, K. Ntanaka and G. Athanassoulis, 'Reconstruction of sea bottom acoustic parameters using a multilayer model and obliquely incident acoustic waves', International Trans Black Sea Region Symposium on Applied Electromagnetism, Metsovo, Greece, April 1996.

17. S. Savaidis, P. Frangos, D.L. Jaggard and K. Hizanidis, 'Scattering from multi-tone fractally corrugated or almost - periodic conducting surfaces using the Extended Boundary Condition Method', International Trans Black Sea Region Symposium on Applied Electromagnetism, Metsovo, Greece, April 1996.
18. P. Frangos, N. Nikitakos and N. Uzunoglu, 'Scattering of electromagnetic waves from conducting objects of arbitrary shape using a finite - element near - field computation method', International Trans Black Sea Region Symposium on Applied Electromagnetism, Metsovo, Greece, April 1996.
19. P. Frangos, 'A numerical method for the solution of one dimensional inverse scattering problems with applications to solitary wave propagation in nonlinear optical fibers', International Trans Black Sea Region Symposium on Applied Electromagnetism, Metsovo, Greece, April 1996.
20. S. Savaidis, P. Frangos, D.L. Jaggard and K. Hizanidis, 'Scattering of electromagnetic waves from fractal conducting rough surfaces', Conference on 'Remote Sensing and Applications', Evgenides foundation, Athens, Greece, 28-29/11/1996.
21. P. Frangos, 'Decision - making process in contemporary Greek Universities / principles and structures' (invited talk), International Seminar on 'University Management', Sofia, Bulgaria, October 2-3, 1997.
22. P. Frangos, 'One - dimensional inverse scattering : exact methods, numerical implementation and application examples' (invited paper), Advanced Study Institute on 'Applied Computational Electromagnetics : State of the Art and Future Trends', Samos, Greece, July 26 - August 5, 1997.
23. N. Uzunoglu, P. Frangos and D. Houppis, 'A method for radar target identification using a transfer function algorithmic approach', International Workshop on 'Non Cooperative Air Target Identification by Radar', Ottawa, Canada, March 3 - 5, 1998.
24. 'The method of Auxiliary Sources : solution of the inverse scattering problem - determination of the source positions from far - field scattering data', presentation of the method by P. Frangos. Authors : R. Zaridge, G. Bit - Babik, D. Karkashadze, R. Jobava, D. Economou and N. Uzunoglu. International Workshop on 'Non Cooperative Air Target Identification by Radar', Madrid, Spain, June 23 - 26, 1998.
25. N. Uzunoglu, A. Papanikolaou, P. Frangos, E. Boulougouris and D. Kaklamani, 'Calculation of the Radar Cross Section of ships using the Physical Optics Approximation', International Conference on 'Naval Technology for the 21st century', Hellenic Naval Academy, Piraeus, Greece, June 29 - 30, 1998.
26. N. Uzunoglu, P. Frangos, E. Boulougouris, S. Pintzos and D. Kaklamani, 'Calculation of the Radar Cross Section of complex radar targets using the Physical Optics Approximation', Invited Paper, Progress of Electromagnetics Research Symposium (PIERS' 98), Nantes, France, July 13 - 17, 1998.

27. P. Frangos, E. Boulougouris, S. Pintzos and I. Aliferis, 'Calculation of the Radar Cross Section of complex radar targets using high frequency electromagnetic techniques', International Conference on Electromagnetics in Advanced Applications (ICEAA '99), September 13 - 17, 1999, Torino, Italy.
28. N. Uzunoglu, D. Houpis, P. Frangos, and A. Amditis, 'Imaging of radar targets using parabolic reflectors', International Conference on Electromagnetics in Advanced Applications (ICEAA '99), September 13 - 17, 1999, Torino, Italy.
29. Ch. Papachristos and P. Frangos, 'Design of microwave microstrip filters using the inverse scattering method', International Conference on Electromagnetics in Advanced Applications (ICEAA '99), September 13 - 17, 1999, Torino, Italy.
30. N. Uzunoglu, P. Frangos, A. Potsis, R. Horn and M. Chandra, 'Analysis of P - band synthetic aperture radar for airborne and spaceborne applications', Sensors and Electronics Technology Symposium, Samos, Greece, 16 - 18 October 2000.
31. A. Dimou, N. Uzunoglu, P. Frangos and U. Benz, 'Linear features detection in SAR images using fuzzy edge detector (FED)', Sensors and Electronics Technology Symposium, Samos, Greece, 16 - 18 October 2000.
32. C. Papachristos and P. Frangos, 'Design of microwave and optical filters using the inverse scattering method', 2nd Symposium on Applied Electromagnetism of TransBlackSea Region, Xanthi, Greece, 27 - 29 June 2000.
33. D. Houpis, P. Frangos and N. Uzunoglu, 'Imaging of radar targets using parabolic reflectors', 2nd Symposium on Applied Electromagnetism of TransBlackSea Region, Xanthi, Greece, 27 - 29 June 2000.
34. 49th International meeting on 'Non - Cooperative Air Target Identification by Radar', Bonn, Germany, 30 - 31/10/2000 (presentation of research work on the above topic).
35. 50th International meeting on 'Non - Cooperative Air Target Identification by Radar', Istanbul, Turkey, 5-7/6/2001 (presentation of research work on the above topic).
36. C. Papachristos and P. Frangos, 'Synthesis of single- and multi-mode planar optical waveguides by a direct numerical solution of the Gel'fand - Levitan - Marchenko integral equations', International Conference on Electromagnetics in Advanced Applications (ICEAA '01), September 2001, Torino, Italy.
37. A. Potsis, N. Uzunoglou, P. Frangos, J. Mittermayer, A. Moreira and A. Reigber, 'Improving the focusing properties of SAR processors for wide - band and wide - beam low frequency imaging', International Conference on 'Remote Sensing by Low - Frequency Radars', Naples, Italy, September 20 - 21, 2001.
38. A. Potsis, A. Dimou and P. Frangos, 'Applications of Synthetic Aperture Radar', Electronic and Information Warfare Symposium, Hellenic Navy, Salamina, Athens, 3-4/12/2001.

39. G. Kalognomos and P. Frangos, 'Imaging of point scatterers using the 2D – ISAR method and 2D – FFT processing', 52th International meeting on 'Non – Cooperative Air Target Identification by Radar', Salon – de – Provence, France, 5-8/2/02.
40. [†] 53th International meeting on 'Non – Cooperative Air Target Identification by Radar', Athens, Greece, May 2002 (presentation of research work on the above topic).
41. 54th International Meeting on 'Non – Cooperative Air Target Identification by Radar', Ottawa, Canada, 1-4/10/02 (presentation of research work on the above topic).
42. K. Eftaxias, P. Frangos, J. Polygiannakis, P. Kapiris and A. Peratzakis, 'Model of pre-seismic electromagnetic emissions in terms of fractal electrodynamics', EGS-AGU-EUG Joint Assembly, Nice, France, 6-11 April 2003.
43. K. Eftaxias, P. Frangos, J. Polygiannakis, P. Kapiris and A. Peratzakis, 'Model of pre-seismic electromagnetic emissions in terms of fractal electrodynamics', International Union of Geodesy and Geophysics, XXIII General Assembly IUGG2003, State of the Planet, Frontiers and Challenges, Sapporo, Japan, 30/6/03 to 11/7/03.
44. B. Massinas, P. Frangos, H. Kontoes and D. Paradissis, 'Ionospheric total electron content (TEC) perturbations monitored by the permanent GPS station at Dionyssos Satellite Observatory (DSO) of the National Technical University of Athens (NTUA), during two recent magnetic storms', 11th FIG International Conference, Santorini, Greece, May 25 – 28, 2003.
45. B. Massinas, P. Frangos, H. Kontoes and D. Paradissis, 'Ionospheric total electron content (TEC) perturbations monitored by the permanent GPS station at Dionyssos Satellite Observatory of the National Technical University of Athens', working week and 125th anniversary of FIG (Federation Internationale des Geometres), Commission 5, Ecole National de Sciences Geographiques (ENSG) and IGN, Marne la Vallee, Paris, April 13 – 17, 2003.
46. G. Kalognomos and P. Frangos, 'Non – parametric Spectral Estimation for ISAR Processing', 57th meeting on 'Non – Cooperative Air Target Identification by Radar', Rome, Italy, 28 – 30 October 2003.
47. I. Ouranos, E. Papkelis and P. Frangos, 'An electromagnetic method for calculating radio coverage in urban environments using physical optics and physical theory of diffraction', International Conference 'Days on Diffraction', St. Petersburg, Russia, 29/6/04 – 2/7/04 (*paper published in the Conference Proceedings, pp. 144 – 153, and corresponding presentation*).
48. A. Karakasiliotis and P. Frangos, 'Parametric Spectral Estimation Methods for ISAR Processing : Overview and Simulation Results', 58th meeting on 'Non – Cooperative Air Target Identification by Radar', Copenhagen, Denmark, 15-17 June 2004.

49. Iakovos Ouranos, Petros Stefaneas and Panayiotis Frangos, “MobileOBJ: A Mobility Approach Using CafeOBJ Algebraic Specification Language”, in Simos, T. E. (ed.) et al., ICNAAM 2004. International conference on numerical analysis and applied mathematics 2004, Chalkis, Greece, September 10-14, 2004. Official conference of the European Society of Computational Methods in Science and Engineering (ESCMSE). Weinheim: Wiley-VCH. 375-378 (2004). [ISBN 3-527-40563-1/hbk].
50. Iakovos Ouranos, Petros Stefaneas and Panayiotis Frangos, “An Algebraic Specification of Mobile IPv6 Protocol”, 1st International Conference PRISE 2004 (Principles of Software Engineering), pp.131-140, Buenos Aires, Argentina, November 22 - 27, 2004.
51. G. Boultadakis, K. Skrapas and P. Frangos, ‘Time – frequency analysis of radar signals’, RTO / SET 080 International Symposium on ‘Target Identification and Recognition Using RF Systems’, Oslo, Norway, 11/10/04 – 13/10/04 (*paper to be published at the Conference Proceedings, and corresponding oral presentation during the Conference*).
52. A. Karakasiliotis and P. Frangos, ‘Comparison of several spectral estimation methods for application to ISAR imaging’, RTO / SET 080 International Symposium on ‘Target Identification and Recognition Using RF Systems’, Oslo, Norway, 11/10/04 – 13/10/04 (*paper to be published at the Conference Proceedings, and corresponding oral presentation during the Conference*).
53. B. Massinas, P. Frangos, H. Kontoes and D. Paradissis, ‘GPS – derived Ionospheric Total Electron Content (TEC) response during two recent magnetic storms’, 35th COSPAR Scientific Assembly, Paris, France, 18 – 25 July 2004.
54. G. Boultadakis, K. Skrapas and P. Frangos, ‘Bilinear Time – Frequency Analysis of Radar Signals’, 61st meeting on ‘Non – Cooperative Air Target Identification by Radar’, Bonn, Germany, 22-24/2/05.
55. G. Kalognomos and P. Frangos, ‘Combining CAPON and APES noise covariance estimates for spectral estimation for ISAR applications’, International Conference ‘RAST 2005’, 9-11 June 2005, Istanbul, Turkey.
56. K. Skrapas, G. Boultadakis, A. Karakasiliotis and P. Frangos, ‘Time – frequency analysis of Radar signals for ISAR applications’, International Conference ‘RAST 2005’, 9-11 June 2005, Istanbul, Turkey.
57. E. Papkelis, I. Ouranos, H. Moshovitis, K. Karakatselos and P. Frangos, ‘A radio coverage prediction method in urban microcellular environments using electromagnetic techniques’, International Conference ‘Days on Diffraction’, St. Petersburg, Russia, 28/6/05 – 1/7/05 (*paper to be published in the Conference Proceedings and corresponding presentation*).
58. P. Frangos, E. Papkelis, I. Ouranos, H. Moshovitis and K. Karakatselos, ‘Radio Coverage Simulation Tool in Urban Environments using Physical Optics and Physical Theory of Diffraction’, Mediterranean Microwaves Symposium 2005 (MMS’ 2005),

September 6-8, 2005, Athens, Greece (paper and corresponding presentation).

59. P. Frangos, H. Moshovitis, E. Papkelis, I. Ouranos and K. Karakatselos, 'Methods for the Calculation of the Radio Coverage in Urban Environments for Mobile Radiocommunications : Outline and Current Research', University of Veliko Turnovo, Bulgaria, 16-20/5/05 (presentation under the framework of a Socrates – Erasmus collaboration).

60. G. Kalognomos and P. Frangos, 'Combining CAPON and APES noise covariance estimates for spectral estimation for ISAR applications', 62nd meeting on 'Non – Cooperative Air Target Identification by Radar', Malvern, United Kingdom, 7-9/6/05.

61. I. Tseremoglu, A. Karakasiliotis and P. Frangos, 'Classification of aircraft targets : first simulation results using a Point Scatterer Model', 62nd meeting on 'Non – Cooperative Air Target Identification by Radar', Malvern, United Kingdom, 7-9/6/05.

62. P. Frangos, 'Advanced analysis and recognition of radar signatures for non – cooperative air target identification', SET 085 3rd International Meeting (working group) on 'Radar Signatures from Aircraft Inlets', Athens, Sept. 2, 2005.

63. G. Kalognomos, A. Karakasiliotis, G. Boultadakis, K. Skrapas, I. Tseremoglou and P. Frangos, 'Some super – resolution spectrum estimation techniques for Inverse Synthetic Aperture Radar (ISAR) signal processing', presentations in the framework of the Socrates – Erasmus Programme, V. Turnovo, Bulgaria (15/11/05), Plovdiv, Bulgaria (17/11/05), Burgas, Bulgaria (14/12/05).

64. I. Ouranos, P. Stefaneas and P. Frangos, 'Specification and verification of security protocols of mobile telecommunication systems using formal methods of computation', Symposium organized by the Technical Chamber of Greece (TEE) under the name 'Modern trends in telecommunications technologies', Athens, Greece, 10/1/2006.

65. A. Karakasiliotis and P. Frangos, 'Decimative Spectrum Estimation Method for High – Resolution Radar Parameter Estimates', 63rd meeting on 'Non – Cooperative Air Target Identification by Radar', Brussels, Belgium, 19-21/4/2006.

66. A. Karakasiliotis and P. Frangos, 'Decimative Spectrum Estimation Method for High – Resolution Radar Parameter Estimates', 'CSNDSP 2006', 5th International Symposium on Communications and Signal Processing, University of Patras, Greece, 19-21 July 2006.

67. H. Moshovitis, E. Papkelis, H. Anastassiou, K. Karakatselos, I. Ouranos, N. Freskas and P. Frangos, 'Asymptotic calculation of the scattered electromagnetic field from a finite rectangular plate using an enhanced Stationary Phase Method (SPM) approximation', EuCAP 2006 – 1st European Conference on Antennas and Propagation, 6-10 November 2006, Nice, France.

68. E. Papkelis, C. Moschovitis, H. Anastassiou, K. Karakatselos, I. Ouranos, N. Freskas and P. Frangos, 'A Radio Coverage Prediction Method in Urban Microcellular Environments Using Electromagnetic Techniques - Asymptotic calculation of the

scattered electric field from a finite rectangular plate using an enhanced Stationary Phase Method (SPM) approximation’, presented to the Technical University of Varna, University of Veliko Turnovo, and Plovdiv Technical University (20th Anniversary International Conference of the Technical University of Plovdiv, 9-11/11/2006), Bulgaria, in the framework of Socrates – Erasmus agreements, October – November 2006.

69. E. Papkelis, C. Moschovitis, H. Anastassiou, K. Karakatselos, I. Ouranos, N. Freskas and P. Frangos, ‘A Radio Coverage Prediction Method in Urban Microcellular Environments Using Electromagnetic Techniques - Asymptotic calculation of the scattered electric field from a finite rectangular plate using an enhanced Stationary Phase Method (SPM) approximation’, ‘Communications, Electromagnetics and Medical Applications Conference’, CEMA ’06, Sofia, Bulgaria, 19-20 October 2006.

70. A. Karakasiliotis and P. Frangos, ‘Decimative Spectrum Estimation Method for High – Resolution Radar Parameter Estimates’, 64th (SET 112) meeting on ‘Non – Cooperative Air Target Identification by Radar’, Paris, France, 13 – 16/10/2006.

71. A. Karakasiliotis and P. Frangos, ‘Decimative Spectrum Estimation Method for High – Resolution Radar Parameter Estimates’, ‘Communications, Electromagnetics and Medical Applications Conference’, CEMA ’06, Sofia, Bulgaria, 19-20 October 2006.

72. A. Karakasiliotis and P. Frangos, ‘Decimative Spectrum Estimation Method for High – Resolution Radar Parameter Estimates’, Invited Talk at the Military University of Veliko Turnovo, Bulgaria, 25/10/2006.

72. P. Frangos, ‘Education in Electrical and Computer Engineering in Hellenic Technical Universities, as compared to European and American Universities’, presented to the EEGECS International Meeting, Athens, Greece, 31/11/06 to 1/12/06 (sponsored by the European Union), and corresponding paper (submitted 8/1/07).

73. Iakovos Ouranos, Petros Stefaneas, Kostas Barlas, Stefanos Demertzis, George Koletsos and Panayiotis Frangos, ‘Modeling Real Time Authentication Protocols using Algebraic Specification Techniques-The case of TESLA Protocol’, IFIP TC 7 2007, Krakow, 23-27 July, 2007.

74. E. Papkelis, H. Anastassiou and P. Frangos, ‘PO / PTD near – field scattering and diffraction method for path loss prediction in urban mobile radio – systems’, ‘Days - on – Diffraction 2007’, International Conference, Saint Petersburg, Russia, May 29 – June 1, 2007.

75. E. Papkelis, H. Anastassiou, P. Frangos and B. Massinas, ‘Near field scattering methods applied to radio-propagation modeling in urban outdoor environments’, 2007 IEEE International Symposium, Antennas and Propagation Society, Honolulu, Hawaii, USA, June 10 – 15, 2007.

76. A. D. Lazarov, A. Karakasiliotis, and P. V. Frangos, ‘Two-dimensional ISAR Signal Modeling and Imaging for Stepped Frequency Modulation’, 67th SET 112

International Working Group and Meeting on ISAR Signal Processing Techniques, Athens, Greece, June 26 – 28, 2007.

77. E. Papkelis, H. Anastassiu and P. Frangos, ‘An Enhanced Method Based on LLDC Theory for the Computation of Near \ Fresnel Zone Diffraction from Finite Edged Scatterers’, ‘EUCAP’07 International Conference on Antennas and Propagation’, Edinburgh, UK, 12 -16 November 2007.

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