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Dr. VASSILIOS C. MOUSSAS
Associate Professor
(updated 2024)

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Born: 10/11/1959
Family Status: Maried, 1 child
Email: vmouss@uniwa.gr, **homepage**: http://www.civ.uniwa.gr/en/profile/moussas-vassilios/
Position: Full Professor, Univ. of West Attica (Athens, GR), Dept. of Civil Engng, Head of Applied Informatics Lab.

I.   EDUCATION

Diploma in Electrical Engineering (5 year degree),   1977-1982
Dept. of Electrical Engineering, **University of Patras**, Patras, Greece

M.Sc. in Data Communications Systems
Dept. of Electrical Engineering & Electronics, **Brunel University**, Uxbridge, U.K.   1999

Ph.D. on Computer Engineering & Informatics
Dept. of Computer Engineering & Informatics, **University of Patras**, Patras, Greece   2002

Post-Graduate Research
System Engineering & Reliability Division, **EU Joint Research Centre (EEC), Ispra**, ITALY   1986-1989
   Subject: *Fatigue Crack Growth Estimation using Non-Linear and Adaptive Algorithms for Reactor Reliability*
Dept. of Compurer Engineering & Informatics, University of Patras, Patras, Greece   1984-1985
   Subject: *Non-Linear and Adaptive Algorithms for Identification & Tracking*
Special Courses
Greek Productivity Centre (ELKEPA) & Univ. of Athens, Greece (150 hrs course)   1992
   Subject: *Neural Networks, Adaptive Systems & Applications*
Other ICT Certificates:
   SUN Solaris System Administration (2000), Introductory & Advanced FORE ATM Switches Configuration(1999),   ISDN Τηλεφωνία & PBX (1999), Cisco Routers & Catalyst Switches Configuration (1998), Cabletron Spectrum Network Management System, (1998), Technology Transfer and Dissem. of High-Performance Computing (1993).
Languages:
   Greek (Mother Tongue),
   English (Very Good),
   French (Very Good),
   Italian (Very Good),
   German (Elements)

II.   TECHNICAL & RESEARCH PREFERENCES/INTERESTS

Applications of ML-PR-AI, Computer Algorithms, Networks & Informatics in Engineering Problems, e.g:
   - Adaptive Multi-Model Partitioning Algorithms and Nonlinear Systems,
   - Detection and Tracking of Signal Sources in Materials/Air/Water using Sensor Arrays,
   - Advanced Computer Algorithms for Material Testing and Reliability,
   - Modeling and Detection of Network Anomalies
   - Fatigue Crack Growth Monitoring and Lifetime Prediction,
   - Non-Destructive Testing & Evaluation,
   - Process Modeling & Optimization.

III.   CURRENT & PAST POSITIONS

University of West Attica (GR) Dept of Civil Engineering	(Full Professor)	2024-**today**
University of West Attica (GR) Dept of Civil Engineering	(Associate Professor)	2018-2024
T.E.I. of Athens Dept of Civil & Surveing/GeoInf. Engineering	(Associate Professor)	2013-2018
T.E.I. of Athens Dept of Civil Engineering	(Assistant Professor)	2005-2013
T.E.I. of Athens Campus Network Administration	(Network Eng./Admin.)	1996-2005
T.E.I. of Athens Dept of Electronics & Dept of Informatics	(Adj. Professor)	1992-2003
InDeCon Advanced Technology Ltd.	(Research Engineer)	1989-1992
EEC/EU, Joint Research Centre**,** Ispra site, ITALY		

System Engineering and Reliability Division	(Research Eng./Grantholder)	1986-1989

Ministry of Industry, Research and Technology, Greece

Computer Technology Institute	(Research Associate)	1985-1986

Univ. of Patras Dept. of Computer Eng. & Informatics   (Res./Teaching Assistant)   1984-1985

IV.   COURSES

Current courses:

   Applied Informatics & Computer Programming,

   Computer-based Solution Methods (Machine Learning – Pattern Recognition - AI),

   Engineering Project Management,

   Project Technoeconomic Analysis & Operational Research

Post Graduate:

   Algorithms & Complexity

   Object, Windows & Web oriented programming using VB & VBA.

Past courses:

   Introduction to Computers, Computer Networks, Computer Security, Operational Research & Optimization, etc.

VI.   REVIEWER

JRMGE, Journal of Rock Mechanics and Geotechnical Engineering (Elsevier)

Journal **Results in Physics** (Elsevier)

Journal **Information** (MDPI)

Journal **Remote Sensing** (MDPI)

JPIER, Journal on Progress In Electromagnetics Research

Journal **Sensors** (MDPI)

OPENMATH, Open Mathematics Journal

Journal **Mathematics** (MDPI)

Journal **Electronics** (MDPI)

Journal **Applied Sciences** (MDPI)

IJAV, International Journal of Acoustics and Vibration

IJIE, International Journal of Information Engineering

IET Radar, Sonar & Navigation Journal

EURASIP Journal on Advances in Signal Processing (**JASP**, former: Journal of Applied Signal Processing).

The 9th International Symposium and 31st National Conference on Operational Research, June 29-30 & July 1, 2023 Athens, Greece

The 4th International Conference on Multimedia Technology (ICMT 2015), Sydney, Australia Jan 23-25, 2015

The European Conference on Signal Processing, EUSIPCO 2008.

The 12th Intl. Workshop on Systems, Signals & Image Processing, IWSSIP 05, Chalkida, Greece, 22-24 September, 2005.

ISC 2005: 8th Information Security Conference, Singapore, Sep. 20-23, 2005

VII.   RECENT EUROPEAN UNION (EU) RESEARCH PROJECTS

More recent projects from a total of 20 EU funded projects:

   MESEMA: Magneto-elastic Energy Systems for Even More electric Aircraft, **FP6** STREP Project

   ADOSE: Reliable Application specific Detection of road users with vehicle On-board SEnsors, **FP7** ICT Project,

   CRESCENDO: Collaborative & Robust Engineering using Simulation capability Enabling Next Design Optimisation, **FP7** ICT Project

   IPROD: Integrated management of product heterogeneous data, **FP7** ICT Project

   FOFDATION: The Foundation for the Smart Factory of the Future, **FP7** ICT Project

   WENEMOR: Wind tunnel tests for the Evaluation of the installation effects of Noise Emissions of an Open Rotor advanced regional aircraft, **CLEAN SKY** Project

VIII.   CONFERENCE ACTIVITIES

ORGANIZING COMMITTEE:

   9th International Symposium and 31st National Conference on Operational Research, May 18-20, **2023** Athens, Greece.

   IFIP SEC 96, 12th International Information Security Conference, Samos, GR, 21-24 May, 1996.

SCIENTIFIC COMMITTEE:

   6th SCCE, International Conference, Athens, 9-12 July, **2014**

   5th EPSMSO, International Conference, Athens, 3-6 July, **2013**

   5th SCCE, International Conference, Athens, 4-7 July, **2012**

   4th EPSMSO, International Conference, Athens, 6-9 July, **2011**

3rd SCCE International Conference, Athens, 9-12 July, **2008**
2nd SCCE International Conference, Athens, 5-8 July, **2006**.
1st EPSMSO, International Conference, Athens, 6-9 July, **2005**

SESSION CHAIRMAN/ORGANIZER:
6th SCCE, International Conference, Athens, 9-12 July, **2014**
5th EPSMSO, International Conference, Athens, 3-6 July, **2013**
5th SCCE, International Conference, Athens, 4-7 July, **2012**
4th EPSMSO, International Conference, Athens, 6-9 July, **2011**
10th MAMECTIS International Conference "Mathematical Methods, Computational Techniques and Intelligent Systems", Corfu, 26-28 October, **2008**
3rd SCCE International Conference, Athens, 9-12 July, **2008**
2nd EPSMSO, International Conference, Athens, 4-7 July, **2007**
2nd SCCE International Conference, Athens, 5-8 July, **2006**.
12th International Workshop on Systems, Signals and Image Processing (IWSSIP05), Chalkida, Greece, 22-24 September, **2005**
1st EPSMSO, International Conference on "Experiments/Process/System Modelling/Simulation & Optimization", Athens, 6-9 July, **2005**
1st SCCE International Conference "From Scientific Computing to Computational Engineering", Athens, 8-10 September, **2004**

VIII. PUBLICATIONS

Citations:
> Scholar Google: 281, h-index: 9
> Scopus: 108, h-index: 6
> Web of Science: 68, h-index: 5

TEXTBOOKS:

V. C. Moussas, (2016), "Financial & Technical Optimization of Engineering Works", "ION" Publishing Group, Athens (in Greek).
V. C. Moussas, (2010), "MatLab 7 Basics & Programming", "ION" Publishing Group, Athens (in Greek).
V. C. Moussas, (2006), "FORTRAN 95/2003 Programming for Engineers","ION" Publishing Group, Athens (in Greek).

PUBLICATIONS IN JOURNALS, CONFERENCES, BOOK-CHAPTERS:

2024
75. Pantazis D.N., Moussas V., Daverona A.C., Gourgourini M., "Smart Data, Smart Cities: From Theory to Reality - The Athens Case", **Submitted** to the 8th INTERNATIONAL CONFERENCE ON SMART DATA AND SMART CITIES (SDSC 2024), 4-7th June 2024, Univ. of West Attica, Athens, Greece

74. Pantazis D., Moussas V., Daverona A.C., Argyrakis P., "The aerial transport in urban areas: Towards the era of manned VTOL-AV", **Submitted** to the ICCSA 2024 Conference, Thuyloi University, Hanoi, Vietnam - July 1-4, 2024, https://ess.iccsa.org/

2023
73. Nikolopoulos Dionisios, Moussas Vassilios and Vryzidis Isaak "Performance of a Concrete Crack Detection Tool using Convolutional Neural Networks (CNN)", presented at the 9th International Symposium & 31st National Conference on Operational Research (HELORS 2023) June 29-30 and July 1, Athens, Greece, 2023

72. Pouresfantiani Karagiannis Nektarios Fotios, Moussas Vassilios and Vryzidis Isaak "Integration of Passenger Unmanned Aerial Vehicles (UAVs) in Urban Areas Transportation", presented at the 9th International Symposium & 31st National Conference on Operational Research (HELORS 2023) June 29-30 and July 1, Athens, Greece, 2023

2022
71. Pantazis, D.N., Argyrakis, P., Moussas, V., Geroulis, G., Daverona, A.C., Stergiou, C., Voyiatzis, I., Aposporis, P., "Smart Transport for Smart Cities: A Futuristic Scenario and a Realistic Project" (2022) ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, 10 (4/W3-2022), pp. 213-220.

2021
70. Konstantinos Diamantis and Vassilios C. Moussas, "Estimating uniaxial compressive strength of peridotites from simple tests using neural networks", SPRINGER - Arabian Journal of Geosciences (2021) 14:2690. https://doi.org/10.1007/s12517-021-09101-z [Link]

69. Vassilios Moussas and Antonios Andreatos, "Malware Detection Based on Code Visualization and Two-Level Classification", MDPI - Information 2021, 12(3), 118; https://doi.org/10.3390/info12030118 [Link]

68. Vassilios C.Moussas and Konstantinos Diamantis, "Predicting uniaxial compressive strength of serpentinites through physical, dynamic and mechanical properties using neural networks", ELSEVIER - Journal of Rock Mechanics and Geotechnical Engineering, Volume 13, Issue 1, February 2021, Pages 167-175. https://doi.org/10.1016/j.jrmge.2020.10.001 [Link]

2020
67. Moshou, A.; Drakatos, G.; Moussas, V.; Argyrakis, P.; Konstantaras, A.; Christina Daverona, A.; Pantazis, D.; Sagias, N.C., "Spatio – Temporal Characteristics of the Aftershocks Sequences that followed the Strong Earthquakes in Ionian Islands, Greece", Preprints 2020, 2020090080 (doi: 10.20944/preprints202009.0080.v1). [Link]

2019
66. A. Andreatos, V. Moussas, "A Modular Intrusion Detection System Based on Artificial Neural Networks", International Journal of Neural Networks and Advanced Applications, ISSN: 2313-0563, Volume 6, 2019, p.32-38 [Link]

65. Moussas, V. C., Pantazis, D. N., and Panagiotis, A.: A DATABASE SYSTEM FOR SMART SUSTAINABLE ISLANDS INDEX APPLICATION, ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., IV-4/W9, 87-93, https://doi.org/10.5194/isprs-annals-IV-4-W9-87-2019, 2019. [Link]

64. A. Andreatos, V. Moussas, (2019), "A Novel Intrusion Detection System Based on Neural Networks", in Proc CSCC 2019, 23rd International Conference on Circuits, Systems, Communications and Computers, Marathon Beach, Athens, July 14-17, 2019, Published online: 24 Sep 2019, DOI: https://doi.org/10.1051/matecconf/201929203017 [Link]

63. D.N. Pantazis, V. Moussas, P. Stratakis, E. Feloni, P. Argyrakis, E. Lazarou, E. Gkadolou, A.C. Daverona, "The Coastal Transport Information System (Co.Tr.I.S.) as an integrated approach for the maritime transport design", Bulletin de la Societe Geographique de Liege, BSGLg, 72 (2019/1) - Hommage au Professeur Jean-Paul Donnay, 73-94 URL:https://popups.uliege.be/0770-7576/index.php?id=5776. [Link]

62. V. C. Moussas, N. Pnevmatikos, "SENSOR PLACEMENT SELECTION FOR SHM OF BUILDINGS", in Proc COMPDYN 2019, 7th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, M. Papadrakakis, M. Fragiadakis (Eds.) Crete, Greece, 24-26 June 2019. [Link]

2018
61. Moussas V.C. (2018) "Adaptive Traffic Modelling for Network Anomaly Detection". In: Daras N., Rassias T. (eds) Modern Discrete Mathematics and Analysis. Springer Optimization and Its Applications, vol 131. Springer, Cham. https://doi.org/10.1007/978-3-319-74325-7_17, [Link]

60. V. Moussas, D. N. Pantazis, P. Stratakis, "THE CO.TR.I.S SYSTEM: TOWARDS A SMARTER COASTAL TRANSPORT NETWORK FOR SMART ISLANDS", ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume IV-4/W7, 2018, 3rd International Conference on Smart Data and Smart Cities, 4–5 October 2018, Delft, The Netherlands, [PDF]

59. Pantazis D.N., Moussas V.C., Stratakis P., Stathakis D., Gkadolou E. (2018) "GIS Applications in Costal Transport: The Co.Tr.I.S Case and Its Contribution Towards the Islands Sustainable Smartification". In: Gervasi O. et al. (eds) Computational Science and Its Applications – ICCSA 2018. ICCSA 2018 Melbourne, VIC, Australia, July 2–5, 2018, Part 3, pp. 284-299. Lecture Notes in Computer Science, vol 10962. Springer, Cham. [DOI]

2017
58. D. N. Pantazis, V. C. Moussas, B. Murgante, A. C. Daverona, P. Stratakis, N. Vlissidis, A. Kavadias, D. Economou, K. Santimpantakis, B. Karathanasis, V. Kyriakopoulou, and E. Gadolou, "Smart Sustainable Islands vs. Smart Sustainable Cities", ISPRS Ann. Photogramm. Remote Sens. Spatial Inf. Sci., IV-4/W3, 45-53, https://doi.org/10.5194/isprs-annals-IV-4-W3-45-2017, 2017 [PDF]

2016
57. V. Moussas (2016), "Adaptive Traffic Modelling for Network Anomaly Detection", in 3rd Intl. Conf. on Cryptography, Cyber Security and Information Warfare (3rd CryCybIW), 26-27 May 2016, HMA Athens GR.

2015
56. V. MOUSSAS, D. N. Pantazis, P. Stratakis, "Modeling Methodologies for Optimization and Decision Support on Coastal Transport Information System (Co.Tr.I.S.)", WASET, International **Journal** of Computer, Electrical, Automation, Control and Information Engineering Vol:9, No:5, p:1066-1070, 2015.

55. V. MOUSSAS, D. N. Pantazis, P. Stratakis, E. Lazarou, E. Gkadolou, C. Karathanasis, and A.C. Daverona, "Coastal Transport Information System (Co.Tr.I.S.): System and Subsystems Description", Computational Science and Its Applications -- ICCSA 2015, Springer Switzerland, O. Gervasi et al. (Eds.), Part III, LNCS 9157, pp. 1-16, 2015. (BOOK Chapter) DOI: 10.1007/978-3-319-21470-2_43

MOUSSAS V. C., "The Role of New ICTs in our Life: Smart Cities & Smart Homes", **Invited** Lecture presented in the Egaleo Municipality Open University, Greece, May 26 2015.

54. MOUSSAS V. C., "Evolutionary Optimization of Simulation Workflows for Product Design Processes", presented in the 4th International **Conference** on Quantitative and Qualitative Methodologies in the Economic and Administrative Sciences, Editor: C.C. Frangos, TEI of Athens, Greece, 21-22 May 2015.

53. MOUSSAS V. C., "The Multi-Model Partitioning theory: Current trends and selected applications", presented in the 3rd TTSAAMS International **Conference**, Editor: N. J. Daras, Hellenic Artillery School, Nea Peramos, Greece, 5-6 May 2015.

2014
52. MOUSSAS V., Tsahalis J., Tsahalis H.-T., "Web-Based Simulation Workflow Optimization Algorithm Applied in Aeronautics: Manufacturing of Control Surfaces", in Proceedings of the 6th IC-SCCE International **Conference**, Athens, 9-12 July, 2014, Vol II, p.545, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-4-1.

51. Tsahalis J., MOUSSAS V., Tsahalis H.-T., "An Algorithm for Web-Based Distributed Heterogeneous Simulation Workflow Multi-Objective Optimization", in Proceedings of the 6th IC-SCCE International **Conference**, Athens, 9-12 July, 2014, Vol I, p.40, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-3-4.

50. Tsahalis H.-T., Tsahalis J., MOUSSAS V., "Development of a Smart Sustainability Optimizer (SSO) Algorithm for Complex Manufacturing Environments such as Factory Workshops", in Proceedings of the 6th IC-SCCE International **Conference**, Athens, 9-12 July, 2014, Vol I, p.148, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-3-4.

49. Tsahalis D., MOUSSAS V., Tsahalis H.-T., "Optimal Configuration of Wind Tunnel Acoustic Beam-forming Arrays for Noise Monitoring of Aircraft with Counter-Rotating Open-Rotors Using Genetic Algorithms", in Proceedings of the 6th IC-SCCE International **Conference**, Athens, 9-12 July, 2014, Vol II, p.361, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-4-1.

48. Tsahalis J., MOUSSAS V., Tsahalis H.-T., "Smart Sustainability Optimization (SSO) in Automotive Engine Component Manufacturing Line: Web-Based Triple-Bottom Line Optimization Facility (PROPTIM)", in Proceedings of the 6th IC-SCCE International **Conference**, Athens, 9-12 July, 2014, Vol II, p.460, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-4-1.

2013
47. Gareth J. Bennett, John Kennedy, et al., Vassilios MOUSSAS, et al., "WENEMOR: Wind Tunnel Tests for the Evaluation of the Installation Effects of Noise Emissions of an Open Rotor Advanced Regional Aircraft", (AIAA 2013-2092), 19th AIAA/CEAS Aeroacoustics **Conference** (32nd AIAA Aeroacoustics Conference), American Institute of Aeronautics and Astronautics 2013, Berlin, Germany, 2013 May 27-29, (978-1-62410-213-4).

46. Pappas S., Chatzarakis G., Pappas C., MOUSSAS V.C., "A Hybrid Model for Wind Speed Forecasting Using ARMA Models and Support Vector Machines (SVM)", in Proceedings of the 5th EpsMsO, International **Conference** on Experiments/Process/System Modelling/Simulation & Optimization, D. T. Tsahalis (editor), Athens, 3-6 July, 2013, Vol. I, p. 16, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-1-0.

45. MOUSSAS V.C., Tsahalis D., Tsahalis H.-T., "Acoustic Array Beamforming Analysis through Modeling, Simulation and Response Estimation", in Proceedings of the 5th EpsMsO, International **Conference**, Athens, 3-6 July, 2013, Vol. I, p. 29, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-1-0.

44. MOUSSAS V.C., Tsahalis J., Tsahalis H.-T., "Design of an Ontology for Simulation Workflow Optimization", in Proceedings of the 5th EpsMsO, International **Conference**, Athens, 3-6 July, 2013, Vol. I, p. 146, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-1-0.

43. Tsahalis D., MOUSSAS V.C., Tsahalis H., "Determination of Acoustic Array Configuration for Optimal Beamforming Using Genetic Algorithms: Part I – Model/Algorithm Development and Verification", in Proceedings of the 5th EpsMsO, International **Conference**, Athens, 3-6 July, 2013, Vol. I, p. 164, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-1-0.

42. Tsahalis H.-T, MOUSSAS V.C., Tsahalis D., "Determination of Acoustic Array Configuration for Optimal Beamforming Using Genetic Algorithms: Part II – Application to Wind Tunnel Testing of Scaled Model of a Regional Aircraft with Counter-Rotating Open-Rotors", in Proceedings of the 5th EpsMsO, International **Conference**, Athens, 3-6 July, 2013, Vol. I, p. 172, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-1-0.

41. MOUSSAS V.C., Tsahalis J., Tsahalis H.-T., "Development of Web Based Optimization Service for Distributed Heterogeneous Frameworks", in Proceedings of the 5th EpsMsO, International **Conference**, Athens, 3-6 July, 2013, Vol. I, p.

192, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-1-0.

40. Tsahalis J., Tsahalis H.-T., MOUSSAS V.C., "Optimization of an Heterogeneous Simulation Workflow", in Proceedings of the 5th EpsMsO, International **Conference**, Athens, 3-6 July, 2013, Vol. II, p. 427, Learning Foundation in Mechatronics (LFME), ISBN: 978-618-80527-2-7.

2012
39. MOUSSAS V.C., Tsahalis J., "A Review of Wireless Sensor Network Techniques for Structural Health Monitoring", in Proceedings of the 5th SCCE International **Conference** "From Scientific Computing to Computational Engineering", D. T. Tsahalis (editor), Athens, 4-7 July, 2012, Vol. I, p. 10, LFME, ISBN: 978-618-80115-0-2.

38. MOUSSAS V.C., Tsahalis J., Tsahalis H.-T., "Automotive Radar and Sensor Early Fusion for Detecting Vulnerable Road Users", in Proceedings of the 5th SCCE International **Conference**, Athens, 4-7 July, 2012, Vol. I, p. 88, LFME, ISBN: 978-618-80115-0-2.

37. Tsahalis J., Tsahalis H.-T., MOUSSAS V.C., "Fault Detection of Electrical Systems Towards Validation of Simulation Data", in Proceedings of the 5th SCCE International **Conference**, Athens, 4-7 July, 2012, Vol. II, p. 249, LFME, ISBN: 978-618-80115-1-9.

36. Tsahalis J., Tsahalis H.-T., MOUSSAS V.C., "Modeling the Comfort of Aircraft Passengers as Part of the Passenger Cabin Environmental Control System (ECS)" , in Proceedings of the 5th SCCE International **Conference**, Athens, 4-7 July, 2012, Vol. II, p. 339, LFME, ISBN: 978-618-80115-1-9.

35. Tsahalis J., MOUSSAS V.C., Tsahalis H.-T., "Towards a Holistic Optimization of Production Sustainability a Multi-Level Approach", in Proceedings of the 5th SCCE International **Conference**, Athens, 4-7 July, 2012, Vol. II, p. 459, LFME, ISBN: 978-618-80115-1-9.

2011
34. A. K. LEROS, V. C. MOUSSAS, "Performance Analysis of an Adaptive Algorithm for DOA Estimation", IAENG International **Journal** of Computer Science, 38:3, pp309-313, August 2011.

33. A. K. LEROS, V. C. MOUSSAS "Performance of the MMPF Algorithm for DOA Estimation under Sensor Failures", in Proceedings of the IASTED Intelligent Systems and Control **Conference**, July 11 – 13, 2011, Cambridge, UK, J.F. Whidborne, P. Willis, G. Montana (editors) published 09-Aug-2011, CD ISBN: 978-0-88986-889-2.

32. MOUSSAS V., TSAHALIS J., TSAHALIS H.-T., "Improved Radar Detection and Tracking of Vulnerable Road Users", in Proceedings of the 4th EpsMsO, International **Conference** on Experiments/Process/System Modelling/Simulation & Optimization, D. T. Tsahalis (editor), Athens, 6-9 July, 2011, Vol. I, pp. 314-320, Patras Univ. Press, Patras, ISBN: 978-960-98941-6-6.

31. TSAHALIS J., MOUSSAS V., TSAHALIS H.-T., "Enhanced Object Detection and Classification for Improved Advanced Driver Assistance Systems (ADAS)", in Proceedings of the 4th EpsMsO, International **Conference** on Experiments/Process/System Modelling/Simulation & Optimization, D. T. Tsahalis (editor), Athens, 6-9 July, 2011, Vol. I, pp. 227-233, Patras Univ. Press, Patras, ISBN: 978-960-98941-6-6.

30. PAPPAS S., CHATZARAKIS G., MOUSSAS V., POURNARAS N., "Evolutionary Design of a Genetic Based Self Organizing Neural Network for Wind Speed Prediction", in Proceedings of the 4th EpsMsO, International **Conference** on Experiments/Process/System Modelling/Simulation & Optimization, D. T. Tsahalis (editor), Athens, 6-9 July, 2011, Vol. I, pp. 258-262, Patras Univ. Press, Patras, ISBN: 978-960-98941-6-6.

29. A. K. LEROS, V. C. MOUSSAS, "Performance Analysis of an Adaptive Algorithm for DOA Estimation", Presented at the WCE 2011 & ICSIE'11, The World Congress on Engineering & International **Conference** of Signal and Image Engineering, organized by the International Association of Engineers, London, U.K., 6-8 July 2011.[βλ.34]

28. MOUSSAS V., "Harmonic Automotive Radar for Enhancement of VRU Detection (Sensor and Software Technologies – part II)", **Invited Lecture** in the Workshop on 'How can new sensor technologies impact next generation safety systems', IEEE Intelligent Vehicles Symposium IV 2011, Baden-Baden (DE), 5 June 2011.

2010
27. V. C. MOUSSAS, " A Review of Theory and Applications of Adaptive filters based on the Lainiotis Multi-Model Approach ", **Book Series: Signals and Communication Technology**: Recent Advances in Applied Signals, Systems and Image Processing, Karras Dimitrios A. (Ed.), Part 1, Chapter 1, pp. 1-32, **Springer**, ISBN: 9781402081699, in press due: 2012. (Book Chapter)

2009

26. S. SP. PAPPAS, V. C. MOUSSAS, and S. K. KATSIKAS, "Adaptive MV ARMA Identification Under the Presence of Noise", **Book Series: Lecture Notes in Electrical Engineering**, Vol. 27: Proceedings of the European Computing Conference, Mastorakis N. and Mladenov V.(Eds.), Vol.1, Part 3, Chapter 5, pp. 177-190, **Springer**, ISBN: 9780387848136, 2009. (Book Chapter)

2008

25. S. SP. PAPPAS, V. C. MOUSSAS, and S. K. KATSIKAS "Application of the Multi-Model Partitioning Theory for Simultaneous Order and Parameter Estimation of Multivariate ARMA Models", International **Journal** of Modelling Identification and Control (IJMIC) , Vol. 4, No. 3, pp. 242-249, 2008.

24. S. SP. PAPPAS, I. ECONOMOU, V. C. MOUSSAS, P. KARAMPELAS, S. K. KATSIKAS, "Adaptive Load Forecasting of the Hellenic Electric Grid", **Journal** of Zheijang University SCIENCE A, Vol. 9, No. 12, pp. 1724-1730, Dec 2008, ISSN: 1673-565X.

23. V. C. MOUSSAS, "Structural Reliability Improvement using Non-Linear and Adaptive Multi-Model Techniques", in Proceedings of the 10th WSEAS International Conference on Mathematical Methods, Computational Techniques and Intelligent Systems, **MAMECTIS '08**, Corfu, Greece, October 26-28, 2008. pp. 149-155 , WSEAS Press, Wisconsin, USA, ISBN 978-960-474-012-3

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