

PERSONAL INFORMATION



**Stavros NIKOLOPOULOS**

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Sex Male | Date of birth 09/12/1969 | Nationality GREEK

JOB APPLIED FOR  
 POSITION  
 PREFERRED JOB  
 STUDIES APPLIED FOR

WORK EXPERIENCE

(2017 – to date)

**Information Technology Engineer**

University of Peloponnese, OAED2 terma Karaiskaki 22131, Tripoli, Greece

- Information Security and computer security systems.
- Computer networks security,
- Computers Engineering
- Software Enginiiring
- Security auditing controls

**Business or sector** COMPUTERS AND SOFTWARE ENGINEERING

(2010-2017)

**Information Assurance Expert**

Ministry of the Citizen protection. 4, P. Kanellopoulou str. pc10177 Athens Greece

- Information Security and computer security systems.
- Cipher Algorithms Evaluation,
- Computer networks security,
- Security auditing controls
- TEMPEST

**Business or sector** INFORMATION ASSURANCE

(2008-2010)

**Scientific Researcher**

Centre de Recherche de l'ICM, INSERM UMRS 975 CNRS UMR 7225, Hôpital de la Pitié-Salpêtrière , 47 Bd de l'Hopital 75651 , Paris, France.

- Timeseries analysis
- Analysis of EEG timeseries, seizure prediction
- Participant of EPILEPSIAE project of EU
- EPILAB software development

**Business or sector** SCIENTIFIC RESEARCH

(2001-2008)

**Information Assurance Expert**

Ministry of the Citizen protection. 4, P. Kanellopoulou str. pc10177 Athens Greece

- Information Security and computer security systems.
- Cipher Algorithms Evaluation,
- Computer networks security,
- studies for cryptanalytic attacks
- TEMPEST

**Business or sector** INFORMATION ASSURANCE

- (1999-2000) **Telecommunications Engineer, Free lancer Electrical Engineering**  
 SIEMENS HELLAS, 8 Artemidos str. pc15122 Marousi Attiki Greece
- EWSD software development
  - Telecommunications Engineer for SIEMENS Greece
  - Participation in EC project EUROCOST for TELE-NET Greece.
  - Sivitanideios public Radio School. Supply of educational reading for School Radio.
- Business or sector** SOFTWARE DEVELOPMENT

- (1994-1999) **Free Lancer, Electrical Engineer**  
 150 Vyronos str. pc24100 Kalamata Greece
- Documents and basic research in EU research program of the type Program of Industrial Research Development with code 96BE85, which took part in Athens with the company Electromedical
  - Research projects in ICCS-NTUA.
  - Participation in studies and design in automatic control (PLC) for automation unit of pump room for the Water Supply association for the city of Komotini, Greece.
  - Electromechanical design and supervision of construction for the works below, which constructed to Kalamata Airport, Greece for the Greek Airforce (120 PEA):
  - Cook house for aviation Cadets.
  - Lighting-Internal Electric Installation of the restaurant of the Officers Service Club.
  - Internal Electric Installation of the officers canteen.
  - Lighting – Internal Electrical Installation for the Marine metallic depot.
  - Electric Power supply for the buildings of the Residency, 362 Escadrille education, Control Tower, and Airmen rooms. The power supply flowed from mid voltage substations (20kV).
  - Airport traffic light updating and maintenance.
  - General Maintenance of electromechanical instrumentation (High, mid, low Voltage) to the airport of Kalamata, Greece.
  - Central Air Conditioning Unit-Ventilation to the underground Residency.
  - Installation of electrostatic ground in the North fuel depot of the airport.
  - Installation of lightning arrester for the Control tower and the barrack room to the Greek Airforce station to Shiza island Greece.
  - Electric Power supply for the building of Supply Group. The power supply flowed from mid voltage substations (20kV).
  - Participation in EC project.
  - Participation in EC project EUROCOST for TELE-NET Greece.
  - General Maintenance of electromechanical instrumentation (High, mid, low Voltage) to the airport of Kalamata, Greece.
  - Traffic Light maintenance to the same airport.
- Business or sector** CONSTRUCTIONS, QUALITY STANDARDS, EDUCATION

## EDUCATION AND TRAINING

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- (2008-2010) **Post doctoral studies** EQF level 8  
 Centre de Recherche de l'ICM, INSERM UMRS 975 - CNRS UMR 7225, Hôpital de la Pitié-Salpêtrière, Paris, France
- Non linear analysis of Timeseries,
  - Non linear signal processing
- (2000 - 2006) **PhD DOCTORAL DIPLOMA** EQF level 8  
 NATIONAL TECHNICAL UNIVERSITY of ATHENS. Department of Electrical Engineering and Computer Mechanics NTUA

- Analysis of Experimental Timeseries
- Non linear analysis of Timeseries,
- Non linear and linear signal processing
- Coarse graining model construction of myocardium

(1988-1994) **Diploma in Electrical Engineering and Computer Mechanics** EQF level 7

NATIONAL TECHNICAL UNIVERSITY of ATHENS. Department of Electrical Engineering and Computer Mechanics NTUA.

- Electronic Engineering
- Electronics
- Digital systems design
- Automatic Control
- Theory of Circuits analysis
- Telecommunications
- Microwaves
- , Antennas
- Computer Networks
- Robotics
- Informatics

(1984-1987) **High School** EQF level 3

2nd General State High School of Kalamata

PERSONAL SKILLS

Mother tongue(s) Greek

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Replace with name of language certificate. Enter level if known.					
French	B1	B2	B1	B1	B1
Replace with name of language certificate. Enter level if known.					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user  
Common European Framework of Reference for Languages

Communication skills

- good communication skills gained through my experience as Free Lancer
- Friendly
- Patient

Organisational / managerial skills

- Leadership skills, gained through my experience as a 2<sup>nd</sup> Lieutenant in Greek Army and through my work. (currently responsible for a team of 4 people)
- Able to organize and carry out team work, gained through my participation in European Projects.

- Job-related skills**
  - good command of security processes (currently responsible for security audit)
  - TEMPEST measurements, zoning
  - software development, gained through my work and my studies
  - Data mining skills, gained through my PhD and my post doctoral work.
  - Physical measurements
  - Timeseries analysis, linear and nonlinear, gained through my research work
  - Teaching Adults, gained through my teaching experience
  
- Computer skills**
  - Good command of Microsoft Office™ tools
  - Software Development, Programming Languages C++, MATLAB, SQL, MS Visual Studio, HTML Pages
  - CICSO CCNA
  
- Other skills**
  - Artistic Skills. Classical Guitar Studies
  
- Driving licence**
  - A
  - B

ADDITIONAL INFORMATION

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- Publications** International Journal Publications ,
  - Projects**
    - EU research program of the type Program of Industrial Research Development with code 96BE85
    - EPEAEK / PYTHAGORAS 70/3/7357
    - European Union – FP7 Project EPILEPSIAE (Evolving Platform for Improving Living Expectation of Patients Suffering from Ictal Events, Grant No 211713).
  
- Conferences**
- Seminars**
  
- Honours and awards**
  - Article Entered in the collective Book titled “Models and Application of Chaos in Modern Sciences”, edited by Dr Elhadj Zeraoulia, Science Publishers, USA, 2011
  - Eligible Candidate in database of European Personnel Selection Office (EPSO) after selection procedure EPSO/CAST/S/5/2013 as Researcher (FG-IV) Natural Sciences.
  
- Memberships**
- References**
  
- Patents** Title: Communication Security in Networks with the aid of random check.  
Beneficiaries: Y. Bakopoulos, V. Soulioti, S. Nikolopoulos, S. Kouremenos, A. Drigas, Y. Vrettaros.  
Number of Patent.: Application Number. ΔΕ 20030100537. Athens 29-12-2003

ANNEXES

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1. PUBLICATIONS

**A. Conferences with abstract review**

- [1] 5th conference in theory of complexity and chaotic dynamics of non linear systems. Poster in “Assessment of experimental timeseries”. Thessaloniki Greece , 1997
- [2] Wavelet Transform analysis of HRV timeseries for detect of coronary diseases. S. Nikolakeas, E. Koskina, G. Manis, A. Alexandridi, S. Nikolopoulos and K. Poralis. Hellenic conference of cardiology, Thessaloniki Greece 2001.
- [3] “Experimental Analysis of Heart Rate Variability of Long-Recording Electrocardiograms,” S. Nikolopoulos, K. Hizanidis, A. Alexandridi, S. Nikolakeas and G. Manis, Non-Linear Dynamics: Chaos and Complexity, Patra 2002
- [4] “Detection of Coronary Disease in Patients with Normal Rest ECG – A Multimethod Analysis,” S. P. Nikolakeas, S. Nikolopoulos, G. Manis, A. Alexandridi, C. Alexiou, and K. Poralis, Annual Meeting of Mediterranean Association of Cardiology and Cardiac Surgery, Rhodes 2002
- [5] “16th Greek Conference in NONLINEAR DYNAMICS: CHAOS AND COMPLEXITY” Chalkis, 14 - 24 July 2003. Poster: Block Entropy

- analysis of long recorded Electrocardiograms as a good way for discrimination between Normal subjects and Coronary patients K. Karamanos S. Nikolopoulos and K. Hizanidis
- [6] "16th Greek Conference in NONLINEAR DYNAMICS: CHAOS AND COMPLEXITY" Chalkis, 14 - 24 July 2003. Poster: An Assessment on Experimental Timeseries Analysis of Multipoint Videoconference Traffic in IP Networks S. Kouremenos, S. Nikolopoulos, J. Bakopoulos, A. Driggas, S. Domoxoudis and V. Soulioti
- [7] CRANS: International Conference and Summer School "Complexity in Science and Society" Patras and Ancient Olympia Greece 14-26 July 2004 Presentation: Non linear Analysis of Long ECG recordings Coherent with Entropy Analysis
- [8] S.Nikolopoulos and K. Hizanidis. Electric model of action potential Propagation in myocardium. 18th Greek Conference in Nonlinear Science and Complexity. Volos 2005 Greece.
- [9] Stavros Nikolopoulos, Mario Valderrama, Constantinos Eftaxias and Michel, Le Van Quyen. "Identifying critical phenomena by analysis of experimental timeseries". International Workshop on Extreme Events: Theory, Observations, modeling and Prediction (EXEV08), November 10-14, Palma de Mallorca, Spain. 2008
- [10] B. Direito, R. P. Costa, H. Feldwisch, M. Valderrama, S. Nikolopoulos, B. Schelter, M. Jachan, C. A. Teixeira, L. Aires, J. Timmer, M. Le Van Quyen, and A. Dourado. "EPILAB: A Matlab® Platform for Multi-Feature and Multi-Algorithm Seizure Prediction Studies" 4th International Workshop on seizure prediction. Kansas city, USA 2009.
- [11] S. Nikolopoulos, M. Valderrama, P. Milani, V. Navarro and M. Le Van Quyen. "Characterization of Pre-Seizure States by a Multi-Signal Analysis of Scalp EEG and ECG Signals during Slow Wave Sleep" 4th International Workshop on seizure prediction. Kansas city, USA 2009
- B. Conferences with full paper review**
- [12] "Diagnosis of Pathology Through Prediction and Approximation Methods," G. Manis, A. Alexandridi and S. Nikolopoulos, Seventh International Symposium on Signal Processing and its Applications, EURASIP IEEE, Paris 2003
- [13] CASYS'03 Sixth International Conference on Computing Anticipatory Systems Liège, Belgium, August 11-16, 2003. K. Karamanos, S. Nikolopoulos and K. Hizanidis. Presentation: Block Entropy analysis of long recorded Electrocardiograms as a good way for discrimination between Normal subjects and Coronary patients. [Invited Paper]
- [14] G. Manis, S. Nikolopoulos, A. Alexandridi, "Prediction Techniques and HRV Analysis", MEDICON 2004, July 31- Aug 5, Naples, Italy
- [15] S. Nikolopoulos, A. Alexandridi, G. Manis, "Some Structural Points of Non-Linear HRV Analysis Revisited", MEDICON 2004, July 31- Aug 5, Naples, Italy
- [16] Inter-Association Working Group on Electromagnetic Studies of Earthquakes and Volcanoes (EMSEV) 5-9 September 2004 La Londe des Maures France Presentation: "Complexity reduction as a sign of transition from the normal state to the seismic shock or healthy human cardiac system to coronary disease"
- [17] G. Manis, A. Alexandridi, S. Nikolopoulos and K. Davos. The Effect of White Noise and False Peak Detection on HRV Analysis. ICINCO 2005 - International Workshop on Biosignal Processing and Classification (BPC 2005) September 13 - 14, 2005 - Barcelona, Spain
- [18] E. Vavouranakis, I. Stamatopoulos, T. Papaioannou, S. Nikolopoulos, M. Drakopoulou, T. Gialernios, I. Karabelas and C. Stefanadis. Analysis of intracoronary pressure wave forms. A new method to assess the coronary vasodilator effect of adenosine European Heart journal ESC P2932 Vol26 2005
- [19] G. Manis, S. Nikolopoulos and A. Alexandridi. Detrended Fluctuation Analysis and Hurst Exponents in Heartbeat Time Series Categorization. BIOSIGNAL 2006.
- [20] "Speeding up the Computation of Approximate Entropy," G. Manis and S. Nikolopoulos, MEDICON, Ljubljana, 2007
- [21] SP. Nikolakeas, S. Nikolopoulos, A. Alexandridi, G. Manis, K. Poralis. Neural networks and non linear ECG analysis for the identification of CAD with normal rest ECG, European Science of Cardiology Congress Vienna, 2007 .
- [22] S. Nikolopoulos, M. Valderrama, P. Milani, V. Navarro, and M. Le Van Quyen. Characterization of pre-seizure states by a multi-signal analysis of scalp EEG and ECG signals during slow wave sleep. International Conference in Complex Systems and Applications Proceedings p.347 June29-July2, Le Havre, Normandy, France (2009)
- [23] S.N. Nikolopoulos, M.A. Valderrama, V. Navarro and M. LeVanQuyen. An assessment of HRV during deep sleep. Comparison between healthy subjects and epileptic patients. 12th Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2010. 27-30 May Chalkidiki Greece.
- [24] M. Valderrama, S. Nikolopoulos, C. Adam-, V. Navarro- and M. Le Van Quyen. Patient-specific seizure prediction using a multi-feature and multi-modal EEG-ECG classification. 12th Mediterranean Conference on Medical and Biological Engineering and Computing – MEDICON 2010. 27-30 May Chalkidiki Greece.
- [25] C. A. Teixeira, B. Direito, R. P. Costa, M. Valderrama, H. Feldwisch-Drentrup, S. Nikolopoulos M. Le Van Quyen, B. Schelter and A. Dourado (2010), A Computational Environment for Long-Term Multi-Feature and Multi-Algorithm Seizure Prediction, 32nd Annual International Conference of the IEEE EMBS, Buenos Aires, Argentina, August 31 - September 4, 2010, p. 6341 – 6344. DOI 10.1109/IEMBS.2010.5627637
- [26] N. Athanasiadis, S. Nikolopoulos, G. Manis, M. Katsimpoulas, C. Dimitriou, I. Kostavassili, M. Mavroidis, C. H. Davos. Heart Rate Variability

components in an experimental animal model of cardiomyopathy . 7th international workshop on Biosignal Interpretation (BSI 2012) July 2012, Como, Italy

[27] G. Manis, P. Arsenos, S. Nikolopoulos, K. Gatzoulis, C. Stefanadis. Details on the application of multiresolution wavelet analysis on heartbeat timeseries. 7th international workshop on Biosignal Interpretation (BSI 2012) July 2012, Como, Italy

[28] Stavros Nikolopoulos, George Manis, Vincent Navarro and Michel Le Van Quyen. Transitions in heart dynamics between sleep stages and mental activity using non-linear analysis. 5th Panhellenic Conference on Biomedical Technology (Elevit). Athens 4-6 April 2013.

### C. International Journal Papers

[29] S. Nikolopoulos, A. Alexandridi, S. Nikolakeas and G. Manis. Experimental analysis of heart rate variability of long- recording electrocardiograms in normal subjects and patients with coronary artery disease and normal left ventricular function, Journal of Biomedical Informatics Volume 36, Issue 3 , June 2003, Pages 202-217

[30] S. Nikolopoulos, P. Kapisir, K. Karamanos, and K. Eftaxias "A unified approach of catastrophic events" Natural Hazards and Earth System Sciences 4: 615 – 631 (2004)

[31] V. Soulioti, Y. Bakopoulos, S Kouremenos, Y. Vrettaros, S. Nikolopoulos, A.S.Drigas Stream Ciphers created by a Discrete Dynamic System for application in the Internet WSEAS Transactions on Communications, Issue 2, Volume 3, April 2004.

[32] V. Soulioti, Y. Bakopoulos, S Kouremenos, S. Nikolopoulos, Y. Vrettaros and A.S.Drigas. Quantum Key Distribution and Adaptive Protocols. WSEAS Transactions on Communications, issue 10, volume 3, p.p. 3345-3349,2004

[33] K. Karamanos, A. Peratzakis, P. Kapisir, S. Nikolopoulos, J. Kopanas, and K. Eftaxias. Extracting Preseismic Electromagnetic Signatures in Terms of Symbolic Dynamics. Nonlinear Processes in Geophysics, 12, 835–848, 2005.

[34] A. Aggarwal, Y. Bakopoulos, V. Soulioti, N. Bardis, S. Kouremenos, S. Nicolopoulos Stream Ciphers Created by a Discrete Dynamic System for Application in the Internet WSEAS Transactions on Computers, V 5(1), 2006

[35] K. Karamanos, S. Nikolopoulos, G. Manis, A. Alexandridi K. Hizanidis and S. Nikolakeas Block Entropy Analysis of Heart Rate Variability Signals International Journal of Bifurcations and Chaos Vol. 16, No. 7 (2006) 2093-2101.

[36] S. Nikolopoulos, G. Manis and A. Alexandridi. Investigation of Correlation Dimension Estimation in Heartbeat timeseries. International Journal of Bifurcation and Chaos, Vol. 16, No. 9 pp. 2481-2498, (2006)

[37] K. Karamanos, D. Dakopoulos, K. Aloupis, A. Peratzakis, L. Athanasopoulou, S. Nikolopoulos, P. Kapisir, K. Eftaxias Preseismic electromagnetic signals in terms of complexity. Phys. Rev. E 74, 016104 (2006).

[38] E. Stamatopoulos, M. Vavuranakis, T.G. Papaioannou, S. Nikolopoulos and C. Stefanadis. Effects of coronary microcirculation on intracoronary pressure waveforms as assessed by fast fourier transform analysis. Artery Research Volume 1, Supplement 1, Page 41, 2006

[39] George Manis, Stavros Nikolopoulos and Anastasia Alexandridi. Assessment of the Classification Capability of Prediction and Approximation Methods for HRV Analysis. Computers in Biology and Medicine, volume 37, issue 5, pp. 642-654, May 2007.

[40] Vavuranakis M., Stamatopoulos I., Papaioannou T., Nikolopoulos S., Toutouzias K., Stefanadis C. "Alterations of pressure waveforms along the coronary arteries and the effect of microcirculatory vasodilation". International journal of Cardiology, 117 (2), p.254-259, Apr 2007.

[41] K. Eftaxias, L. Athanasopoulou, G. Balasis, M. Kalimeri, S. Nikolopoulos, Y. Contoyiannis, J. Kopanas, G. Antonopoulos, and C. Nomicos. "Unfolding the procedure of characterizing recorded ultra low frequency, kHz and MHz electromagnetic anomalies prior to the L'Aquila earthquake as pre-seismic ones – Part 1" Natural Hazards and Earth System Sciences., 9, 1–19, (2009).

[42] K. Eftaxias, G. Balasis, Y. Contoyiannis, C. Papadimitriou, M. Kalimeri, L. Athanasopoulou, S. Nikolopoulos, J.Kopanas, G. Antonopoulos, and C. Nomicos "Unfolding the procedure of characterizing recorded ultra low frequency, kHz and MHz electromagnetic anomalies prior to the L'Aquila earthquake as pre-seismic ones. Part II." Natural Hazards and Earth System Sciences., 10, 1–20, (2010).

[43] C. A. Teixeira, B. Direito, H. Feldwisch-Drentrup, M. Valderrama, R. P. 4 Costa, C. Alvarado-Rojas, S. Nikolopoulos, M. Le Van Quyen, J. Timmer, B. Schelter, A. Dourado, EPILAB: A software package for studies on the prediction of epileptic seizures. Accepted for publication on the international journal of Neuroscience Methods 200(2): 257-71 (2011).

[44] M. Valderrama, C. Albarado, S. Nikolopoulos, J. Martinerie, C. Adam, V. Navarro, M. Le Van Quyen, "Identifying an increased risk of epileptic seizures using a multi-feature EEG-ECG classification". Biomedical Signal Processing and Control, Vol 7, Issue 3, Pages 237-244 (May 2012).

[45] George Manis, Petros Arsenos, Stavros Nikolopoulos, Konstantinos Gatzoulis and Christodoulos Stefanadis. "Details of the Application of Multiresolution wavelet Analysis on Heartbeat Timeseries". International Journal of Bioelectromagnetism Vol.15 No1, pp60-64, 2013.

[46] George Manis, Stavros Nikolopoulos, Petros Arsenos, Konstantinos Gatzoulis, Polychronis Dilaveris and Christodoulos Stefanadis. "Risk Stratification for Arrhythmic Sudden Cardiac Death in Heart Failure Patients using Machine Learning Techniques". Computing in Cardiology 2013; 40:p141-144.

## 2. TEACHING EXPERIENCE

- 1995 Associate teacher to the School of Electronics of signalers officers of Greek Army. The subject was Communicational circuits and especially  $\pi$ -filters.
- 1996 - 1997 Laboratory Administration for the subject: Electronics for Telecommunications , Ntua, Greece.
- 1998 Teacher in Public Business training Institute of Kalamata to the following:
- Phone Terminal Devices, for the class of Computer Technicians
  - Operational systems DOS-WINDOWS for the Class of Repository materials administration
  - Use of Computers for the class of Marketing
- 1999 Teacher in Public Business training Institute of Kalamata to the following:
- Computer Networks for the class Computer Technicians.
- 2000 Teacher for the Business Training center of the tinsmith stainers Union to the class of EUROCOST training.  
Trainer to the automotive engineers union to the subjects: Electronics applicated to the automobile. General diagnostics unit. Electronic movement transfer. ABS, ESP basic consepts.
- 2001 Trainer to the automotive enginers union to the subjects: Electronics applicated to the automobile. General diagnostics unit. Electronic movement transfer. ABS, ESP basic consepts.
- 2002 Trainer to the automotive enginers union to the subjects: Electronics applicated to the automobile. General diagnostics unit. Electronic movement transfer. ABS, ESP basic consepts.
- 2003 Pascal Programming. OEEK Glyfada Greece
- 2004 Computer Networks. OEEK Glyfada Greece  
Trainer to the automotive enginers union to the subjects: Electronics applicated to the automobile. General diagnostics unit. Electronic movement transfer. ABS, ESP basic consepts.  
Trainer to the Electricians union to the subject: Smart House, EIB and Applications
- 2005 Hellenic Confederation of Professionals Craftsmen and Merchants. Vocational Training Center:  
Trainer to the automotive enginers union to the subjects: Electronics applicated to the automobile. General diagnostics unit. Electronic movement transfer. ABS, ESP basic consepts.
- 2007 Hellenic Confederation of Professionals Craftsmen and Merchants. Vocational Training Center:  
• Trainer to the automotive enginers union to the subjects: Electronics applicated to the automobile. General diagnostics unit. Electronic movement transfer. ABS, ESP basic consepts.  
• Coordinator of the scientific comity for the description of the vehicles' electrician profession.
- 2008 Hellenic Confederation of Professionals Craftsmen and Merchants. Vocational Training Center:  
Coordinator of the scientific comity for the description of the vehicles' electrician profession.