

Curriculum Vitae

Dr. Stelios C. A. Thomopoulos

Chapter 1

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May 2018

NOTE TO THE EVALUATION COMMITTEE

REASONS FOR MY CANDIDANCY

It was right after New Year's Eve of 1998, when I received a phone call at my family home in Athens, where I was spending my Christmas holidays visiting for a couple of weeks from the USA. The Director of NCSR Demokritos wanted to meet him. I was very surprised when he announced to me that I have been elected Director of the Institute of Informatics & Telecommunications at NCSR. I merely remembered having applied for the position a couple of year earlier, as there has been no communication whatsoever with Demokritos since I mailed my application. I thanked the Director of the Center and I told him that I would have to spend the next six months visiting Demokritos and working at the Institute as an interim Director without pay before I could commit to the offer. So I did, and at the end of June 1998, I announced to the Director and President of the Board my decision to accept the position of Director of IIT. So, July 1, 1998, I assumed my duties as Director of IIT and the journey began.

Since that day, over 17 years have gone by, years I was met with a lot of challenges, years of significant accomplishments at both Institute and personal levels, years that transformed the Institute of Informatics & Telecommunications from a non-entity into one of the top two Institutes in the field in Greece, and a very reputable and strong player in the European research landscape.

During these 17 years, I have served one full term as Director of IIT (1998-2003); I have been elected to serve as an Acting Director with the full duties of a Director for two years (1997-1999); I have established the Integrated Systems Laboratory in 2000 with zero personnel and funding to a 43 full-time researchers' strong laboratory with a very strong reputation in the European Union as "a partner that can carry out successfully complicated and difficult projects," and I have always used my position as a Member of the Board wisely. In 2012 I was re-elected to a second term as Director of IIT and assumed my duties in 2013, as the first ever re-elected director of IIT and one of the very few across all Institutes at Demokritos.

From the very first day I assumed my position as Director in 1998, I based my tenure and administration on three pillars: **Excellence, Fiscal Responsibility, and Transparency**. Having these three pillars as my compass, I tried to carry out my managerial responsibilities, be it at the Institute level, my own lab or the Board of Directors, using common sense, by showing compassion to my colleagues and co-workers, and being fair and equitable to all to the largest possible extent.

During these 17 years IIT has grown to be a beacon of excellence, scientific achievements and successful funding, and has paved the way to extraversion that led to the creation of several joint PhD Programs with renowned universities in Europe and the USA. I believe I have contributed to this success from my different positions of responsibility and I have learned from it to persevere and adhere to own principles and common sense.

It is my conviction that I can offer this experience as Director of NCSR Demokritos and contribute to its future success as a European and worldwide renowned Research Center that I submit my candidacy for this position.

Stelios C. A. Thomopoulos, 10 April 2018

CURRICULUM VITAE

Dr. Stelios C. A. Thomopoulos

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Personal Data



Date of birth: 15 June 1955
Birth place: Athens, Greece
Citizenship: Greece & USA
Title: Dr., Director of Research, Deputy Director, former Institute Director, former Professor of Electrical Engineering
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Family situation: Married, three children
Languages: Greek, English, French, Italian
Homepage: <https://www.iit.demokritos.gr/people/thomopoulos-stelios>

Studies

Ph.D.: State University of New York at Buffalo, Dept. of Electrical & Computer Engr., USA, February 1983.
M.S.: State University of New York at Buffalo, Dept. of Electrical & Computer Engr., USA, February 1980.
B.S. (5 yr Diploma): National Technical University of Athens (NTUA), Dept of Electrical & Mechanical Engineering, Athens, Greece, July 1978.

Professional Experience

2013-today **Institute Director**, Institute of Informatics & Telecommunications, National Center of Scientific Research “Demorkitos”, Greece.
2007-2009 **Deputy Institute Director**, Institute of Informatics & Telecommunications, National Center of Scientific Research “Demorkitos”, Greece.
2003–today **Director of Research & Head of Integrated Systems Laboratory (ISL)**, Institute of Informatics & Telecommunications, National Center of Scientific Research “Demorkitos”, Greece.
1998– 2003 **Institute Director**, Institute of Informatics & Telecommunications, National Center of Scientific Research “Demorkitos”, Athens, Greece.
1995-1998 **President & CEO**, Intelnet Inc. “*Intelligent Networks Incorporated*”, State College, Pennsylvania, USA.
1989-1996 **Associate Professor**, Dept. of Electrical Engineering, The Pennsylvania State University, State College, Pennsylvania, USA.
1991-1993 **Adjunct Associate Professor**, Dept. of Electrical Engineering, Southern Illinois Univ., Carbondale, Illinois, USA.
1989-1990 **Associate Professor**, Dept. of Electrical Engineering, Southern Illinois Univ., Carbondale, Illinois, USA.
1983-1989 **Assistant Professor**, Dept. of Electrical Engineering, Southern Illinois Univ., Carbondale, Illinois, USA.
1982-1983 **Lecturer**, Dept. of Electrical & Computer Engr., State University of New York at Buffalo, New York, USA.
1979-1982 **Teaching Assistant**, Dept. of Electrical & Computer Engr., State

1978-1979 University of New York at Buffalo, New York, USA.
Instructor, The Learning Center, State University of New York at Buffalo, New York, USA.

Research Interests

Wireless Broadband Networks, Information Systems, Adaptive Signal Processing & Communications, Distributed Decision Theory, Adaptive Control, Nonlinear Estimation and Detection, Parallel Processing, Neural Networks, Intelligent Systems, Data Fusion, Biometrics, Location Based Systems, Multimodal Journey Planners, Indoor Space Content Georeferencing, Management and Indoor Navigation, Indoor Localization & Smart Antennae, Maritime Surveillance, Security & Cybersecurity Systems, Ethics & Privacy by design factors in Security Systems, Human & Crowd Behavior Modeling & Systems Simulation, 3D Modeling, Gamification, Virtual & Augmented Reality, and Digital Immersive Cultural Spaces, System Integration including large-scale software development & mobile applications.

Summary of Professional Activities

Dr. Thomopoulos received his Diploma (5 yr undergraduate degree) in Electrical and Mechanical Engineering in July 1978 from the National Technical University of Athens (NTUA), Greece. He then continued his graduate studies in the U.S.A. where he earned his M.S. degree in January 1981 and Ph.D. degree in January 1983, both in Electrical Engineering from the Department of Electrical and Computer Engineering of the State University of New York at Buffalo.

From 1983 to 1992, he was with the faculty of the Electrical Engineering Department of Southern Illinois University first as an Assistant Professor (1983-89), then as an Associate Professor (1989-1990), and then as an Adjunct Associate Professor (1990-92). In August 1989 he joined the faculty of the Electrical and Computer Engineering Department at the Pennsylvania State University, on leave from Southern Illinois University, and remained in the faculty of Penn State University till 1996. In 1994 he co-founded Intelnet Inc., a company specializing in biometrics, information management and access control systems, and data mining applications. In 1996, he joined the company full-time as President and Chief Executive Officer. He remained at this position until July 1998 and with the board of the company till 2001. In 1998 he was elected Director of the Institute of Informatics and Telecommunications (IIT) and a member of the Board of Directors of the National Center for Scientific Research (NCSR) "Demokritos," - the largest state-funded research organization in Greece - , with a 5 year appointment. After the expiration of his appointment as Institute Director in 2003, Dr. Thomopoulos remains with NCSR Demokritos as Director of Research and Head of the Integrated Systems Laboratory (ISL) of the Institute of Informatics & Telecommunications. From 02/2008 to 2006 he served as Deputy Director of IIT. In 2013 he was re-elected as Director of IIT (the first ever in Institute's history) and member of NCSR Board of Directors, a position he currently holds.

During his first-time 5-year tenure as Director of the Institute of Informatics and Telecommunications and Member of the Board of the NCSR "Demokritos," the Institute has grown in terms of both external research funds and hired personnel at a healthy rate of an average 20% annual rate. Furthermore, both its international visibility and recognition were increased; its research activities were consolidated and focused on highly interdisciplinary telecommunication and informatics projects, as documented by the data in the "Achievement Report of II&T for the period 1998-2003" in Unit 3.

In 2000, he established the Integrated System Laboratory (ISL) aiming at performing interdisciplinary research and development across telecommunications & informatics with emphasis on wireless internet, broadband applications, location-based services, location estimation & tracking, security, and biometrics. Today, ISL has 43 full-time externally funded researchers, has successfully carried out over 30 research projects, of over 18 million Euro funding out of 130 MEuro total budget, has expanded its research areas and has developed a wide range of technologies, software applications and platforms.

Between 02/2007 and 12/2009 he served as Deputy Director of the Institute of Informatics & Telecommunications, NCSR Demokritos, with Acting Director duties due to the lack of Director.

In 2012 he was re-elected Director of the Institute of Informatics & Telecommunications, the first re-elected director in the history of the Institute and assumed his duties as Director in July 2013. In February 2014, the Institute undergoes the period 5-year (this time 7-year) evaluation by a 5-member committee of renowned scientists of international status. The Institute receives for the first time an overall rate of 4,45 out of 5, a score that places it among the first three top institutes in the field of Informatics in the Country. The Committee assessed that the objectives set in the Institute's R&D activities towards *Integration & Coherence* (2000-2005) and *Convergence & Outreach* (2005-2012) have been accomplished to a great extent, and the targets towards *Smart Specialization, Ecosystems and Innovation* are all desirable and reachable targets for the period 2012-2017. The following Performance Indicators, as documented in the official evaluation report of 2012, are a testimonial to the successful ascending course of the Institute since 1998, the year I assumed the position of Director and established excellence, transparency and fiscal responsibility as the main and continuing pillars in the management of the Institute:

- 66% of IIT's budget comes from external (competitive) funding, whereas only 34% comes from national central budget.
- Whereas the Institute's share of the Public Budget of NCSR D amounts to only 7,4% of this budget, IIT contributes over 54,7% in NCSR D's budget from external funding from sources other than the state budget, i.e. a 7:1 ROI (Return on Investment) between competitive external funding and public funding, making the Institute a very competitive and productive organization.
- During the period 2005-2012 the citations (from third parties) saw a five-fold increase (1000 in 2005 to 5200 in 2012).
- Increase of the research personnel under contract to 168, i.e. a 7:1 ratio with respect to the permanent personnel of the Institute despite the financial hardships due the economic crisis.

During his tenure at Intelnet Inc., Dr. Thomopoulos developed the company and led its transformation from a small start-up into a well-recognized and prominent business. He supervised and coordinated the development of two products, Ver-i-Fus and Fus-A-Fis, for the access control, time & attendance, and biometrics markets. Intelnet's products were purchased by Fortune-100 companies, heavy industrial outfits, the USA military, large universities, libraries, nuclear and national laboratories, and resorts.

At Penn State University (PSU), his research and teaching were focused on Data Communication Networks, Adaptive Signal Processing & Communications, Adaptive Control, Estimation and Decision theory, Data Fusion, Autonomous & Intelligent Systems, Neural Networks, and applications of Robotics and Machine Visions. His research at PSU was supported by the National Science Foundation (NSF), the Office of Naval Research (ONR), the Predetection Fusion Program (Rome National Laboratory), the Naval Explosive Ordnance Disposal Technology Center, by the Ben Franklin

Technology Center, by private industry, and various internal awards. He was the recipient of a NSF research equipment award for the acquisition of massively parallel computers used for research in areas of multi-dimensional adaptive signal processing, neuro-control, intelligent systems, and signal visualization as well as in the exploration of new ideas in his Decision and Control Systems Laboratory.

While at Southern Illinois University (SIU), he taught several undergraduate and graduate courses in the areas of data networks, information systems, controls, communications, signals and systems, robotics, estimation, and probability theory; conducted a PhD seminar in 1987; and organized the Information Processing and Intelligent Systems Laboratory. He was the recipient of National Science Foundation (NSF) Initiation Award, and one of the first recipients of the SDIO/IST grants from Office of Naval Research (ONR).

His research has been published and/or reproduced in books and special issues of professional journals on related subjects. He is credited with over 200 publications in peer reviewed professional journals, books and proceedings and over 2000 citations. Dr. Thomopoulos has published extensively in the areas of Data Communication Networks, Decision and Estimation Theory, Data Fusion, Nonlinear Signal Processing, Adaptive Control, and Biological and Intelligent Control, Multi-Radar Signal Processing, Pattern Recognition, Biometrics, Adaptive Antennae, Location Estimation and Location-based Services. His publications have been cited in over **two thousand** (2000) third party papers and publications, and in selected peer-reviewed premier journal, such as IEEE Transactions, in the time interval between 1987 and December 2008 (Source: SCI - Science Citation Index). His *Generalized Evidence Processing* (GEP) theory has been cited in all three most recent books on Data Fusion as a novel and promising unifying new theory in the field of data fusion. Dr Thomopoulos holds the US Patent No. **5,978,495** "A method for the identification of a human being," which has been cited by 107 other third-party subsequent patents.

The visibility of his distributed decision theory has resulted in his teaming up with an industrial group (upon their request) and the funding of a successful proposal for one of the pilot projects in the U.S. that put his theories on experimental testing. He participated as a premier consultant and advisor to the US Air Force Predetection Fusion Program and has been consulting for the government and private industry. He has contributed as invited author to a three volume series on Automated Manufacturing by Academic Press (Ed. C. T. Leondes) and in an industry/academia consortium for joint research in the area of sensor fusion.

He organized the Data Networks Seminar (Phoenix, AZ, Jan. 1986), an invited session in Data Communication Networks at the 25th Decision and Control Conference (Athens, Greece, Dec. 1987), and for a fourth consecutive year a one-day short tutorial in Data Fusion System Design at the SPIE Symposium in Orlando, FL (1991- 1995). He has participated as lecturer in continuing education professional seminars and developed tutorial notes on Data Fusion Systems Design. He organized and served as Conference Chair on data fusion and sensor integration in the First International Conference on substance identification held at Innsbruck, Austria, in October 1993 in cooperation with the US FAA and the European Aviation Association. He is serving as a permanent member in the Organizing Committee of two SPIE Society conferences on Data Fusion and Signal Processing, and Data Fusion and Robotics since 1990.

In 1993, he spent four months in France invited and financed by CNRS, the French Centre National de Recherche Scientific, as an international expert on Data Fusion and advisor to CNRS, to evaluate and coordinate the French research program on data fusion. He has served also as consultant and evaluator for DRET (the French counterpart of

DARPA - USA). He was the invited editor of a Special Issue on Data Fusion that was published by the French CNRS in 1994.

As President & CEO of Intelnet Inc. (*Intelligent Networks Incorporated*), he was the principle designer of Intelnet's SmartBoard™, Ver-i-Fus® integrated biometric access control and information monitoring and management system, and the Fus-A-Fis® automated fingerprint recognition system, products that use advanced data fusion technology and biometrics for fingerprint recognition, integrate access control, and provide real-time information monitoring and management for time & attendance, labor and production monitoring, and payroll applications.

Dr. Thomopoulos has been invited by the European Commission (EC) to serve as an expert evaluator of several research proposals and projects under the 5th and 6th Framework Programs.

Dr. Thomopoulos was the **first National Representative of Greece in the ARTES Programme** of the European Space Agency (ESA) during the period 2001-2003.

In 2013, as part of the national effort to redefine the Greek economy, he introduced the proposal to create the **DICE platform**: Digital Immersive Culutral Environment. The purpose of the DICE platform (https://link.springer.com/chapter/10.1007/978-3-319-48496-9_61) is to create a digital environment for cultural heritage and content through modern technologies such as content production, digital entity management, visualization and presentation through virtual and enhanced projection, projection mapping, 2D & 3D animation, protection of digital entities, copyrights and production contracts through relevant technologies such as blockchain. Since then, two creative productions have been produced in the Integrated Systems Laboratory: The "iGuide Knossos" (2016), an immersice 3D/2D digital re-making of ancient Knossos, and "The Journey of Ariadne" (2018), a production of Projective Imaging based on the myth of Knossos and its Digital representation.

Teaching and Consulting Experience

a. Courses Taught:

Undergraduate courses taught include: Linear Systems and Signals, Communication Theory, Digital Communications, Control Theory, and Digital Control.

Graduate courses taught include: Probability and Stochastic Processes, Computer Communication Networks, Estimation Theory, Detection Theory, Optimal Control, Robotics, Machine Vision, Adaptive Control.

b. Continuing education:

Organized and conducted one-day short courses on Data Fusion under the auspices of SPIE.

During a four month period, he lectured extensively, both in French and English) and organized workshops on Data Fusion throughout France sponsored by the French Center for Scientific Research (CNRS).

c. Laboratory experience:

Created entirely from research funds the Information Processing and Intelligent Systems Laboratory, at the Dept. of Electrical Engineering, Southern Illinois University. The projects that

were carried through in the Laboratory included: (a) the development and in hardware implementation of the MMSE-PC Ethernet controller for random access channels; (b) IRODESS: An integrated software package for robot design, simulation and animation; (c) Vision and navigation system for autonomous robots; and (d) software for distributed data processing, analysis of distributed decision fusion algorithms, filters for distributed estimation and filtering, and adaptive controls with saturating nonlinearities.

At Penn State University, he established the Decision & Control Systems Laboratory (DCSL). He was the primary investigator in several proposals that provided the necessary funds to equip the laboratory with Computer Aided Control Systems design facilities. Projects that were carried through in the DCSL included: the design of improved performance adaptive controllers for linear and nonlinear systems; the design of distributed algorithms for predetection fusion and multi-radar data fusion and target tracking; the development of the self-organizing neural network DIGNET and the extensive comparative study with other self-organizing neural networks; the design of nonlinear filters for sinusoidal retrieval and radar data fusion; the design of automatic character recognition systems and multi-spectral image fusion for automatic target identification; and the development of fingerprint recognition algorithms for parallel processing and very large databases.

At Intelnet Inc. (*Intelligent Networks Incorporated*), he was in charge of the R&D laboratory and the principle designer of Intelnet's SmartBoard™, the Ver-i-Fus® integrated biometric access control and information monitoring and management system, and the Fus-A-Fis® automated fingerprint recognition system, products that use advanced data fusion technology and biometrics for fingerprint recognition, integrate access control, and provide real-time time information monitoring and management for time & attendance, labor and production monitoring, and payroll applications.

At NCSR “Demokritos” he established the **Integrated Systems Laboratory (ISL)** in the Institute of Informatics & Telecommunications ISL was established in 2000 to bridge the gap between Informatics and Telecommunicatios research activities at IIT. For further information on the ISL please visit <http://iit.demokritos.gr/isl>.

The **ISL** at a glance:

ISL RESEARCH AREAS:

- GIS & Geo-spatial Information Management
- LBS, Transportation Optimization, Data Fusion
- Mobile Applications including multi-modal journey planning
- Embedded Systems Design & Implementation
- Security, Asset Tracking, & Crowd Modeling & 3D Simulation
- Indoor Localization, Routing & Navigation
- Signal Propagation & Antennae Design
- Digital cultural heritage promotion and management

A **video describing ISL’s overall activities** can be seen at - <https://vimeo.com/122414964>.

Videos **describing various ISL projects and accomplishments** can be seen by visiting the ISL vimeo channel <https://vimeo.com/isldemokritos> or ISL Youtube channel and by **scrolling through the various video links** describing ISL productions thereof:

- **FLYsec:** <https://vimeo.com/isldemokritos>
- **Marine EO:** <https://vimeo.com/225108495>
- **SAINT:** <https://vimeo.com/240976041>
- **AF3:** <https://vimeo.com/170473429>
- **CYCISE:** <https://vimeo.com/226433455> <https://vimeo.com/226435975> Password: CyCise

- **Hellenic CISE:** <https://vimeo.com/178197381> Password: HellenicCise
- **PERSEUS (Eastern Campaign) Scenario I:** <https://vimeo.com/113962395>
- **PERSEUS (Eastern Campaign) Scenario II:** <https://vimeo.com/135040978>
- **TASS project:** <https://vimeo.com/51434409>
- **TASS Scenario 1: Forgotten Luggage:**
<https://www.youtube.com/watch?v=usk4hTnx4R4>
- **TASS Scenario 2: Potential Maliciously Intended:**
www.youtube.com/watch?v=T1qtDHIHF1U
- **TASS RFID Luggage System:** <https://www.youtube.com/watch?v=zkc04RJVqgc>
- **CyberROAD:** <https://vimeo.com/171088906>
- **iGuide Knossos:** <https://vimeo.com/183327098>
- **iGuide Knossos education:** <https://vimeo.com/222812164> Password: Ellinogermaniki
- **wayGOO:** <https://vimeo.com/167716858>
- **Oculus Sea:** <https://vimeo.com/126889774>
- **SYNAISTHISI:** <https://vimeo.com/130882116>
- **iCrowd:** <https://vimeo.com/155102249> <https://vimeo.com/223308809> Password: 1sLl@bs
- **DITSEF:** <https://vimeo.com/49823254>
- **Optitrans Journey Planner: London Edition 2012:** <https://vimeo.com/120489094>
- **ELECTRA-X Localization & Telemetry System:**
www.youtube.com/watch?v=3anlmCQ6wKk
- **PYRONES:** <https://vimeo.com/163534330>
- **IIT, NCSR Demokritos -** <https://www.youtube.com/user/iitDemokritos>

ISL FUNDING 2000 - 2018

- Over 44 Projects out of which 38 EU funded
- Total Funding for ISL: Over 22,8 Million Euro
- Total Funding for Projects: Over 154 Million Euro

ISL PERSONNEL

- **Director:** Stelios C. A. Thomopoulos, PhD
- **43 Full-time** Researchers, Project Managers, and Office & Accounting Managers

KEY DEVELOPMENTS & PLATFORMS @ ISL

- **WIN:** Wireless Internet Network – The first wide-range high-speed wireless internet IP network for broadband services of e-learning and e-health over IP at 2.4 and 5.2 GHz.
- **e-Pyxis:** A document management and e-learning platform based on open source software.
- **Bioathletics** the first world-wide multi-biometrics ID software/hardware platform for access control in large-scale athletics events implementing the Bio-API USA protocol.
- **Taxi on Demand (ToD)** automated booking system with privacy policies and location-based ad hoc grouping (LBAG). ToD is the precursor of ALL current taxi platforms, including TaxiBeat, Uber, etc.
- **Optitrans™** Multimodal Journey Planner (www.optitrans.net) and mobile applications (iOS, Android, and Windows).
- **ELECTRA-DX™** Indoor Localization, Telemetry with video streaming and digital communications Control & Command System for First Responders.
- **OCULUS Sea™** Integrated Maritime Surveillance Control, Command & Information (C2I) System developed, implemented and tested in the two Eastern Campaigns of the PERSEUS EU funded FP7 Demonstration Project.
- **OCULUS Fire™:** Integrated Forest Fire Control, Command & Information (C2I) System developed, implemented and field tested at the Skaramangas Naval Base (Greece) pilot demonstrator of the AF3 EU funded FP7 Integrated Project.

- **OCULUS Air™:** Integrated Airport Control, Command & Information (C2I) System developed, implemented and field tested at the LuxAir Airport (Luxembourg) pilot demonstrator of the FLYSEC EU funded H2020 RIA Project on risk-based airport security.
- **wayGoo™** A Platform for Indoor for Geolocating and managing Indoor Spaces & Content with Multidimensional Indoor Navigation and Guidance developed in part and pilot tested during the field trial of the SYNAISTHISI nationally funded project under KRIPIS I.
- **iGuide™** A Platform for 3D Modelling, Gamification, Virtual & Augmented Reality Digital Immersive Cultural Environments. (DICE)
- **iCrowd™** A Platform for Human and Crowd Behavior Modelling & Simulation
- **PYRONES™** An Integrated Platform for Fire Propagation, Crowd Behavior and Injury Modelling & Simulation in Indoor Environments with BIM (Building Information Management) Visualization for Engineering Design Applications & training of First Responders.

Industrial and Managerial Experience

Co-founder and member of the board of Intelnet Inc., a high-tech company specializing in access control systems, biometrics, information monitoring & management systems, pattern recognition products, image processing and virtual reality, and data mining software.

Founder of Intelnet Consulting, a consulting company specializing in Communication Networks, Distributed Controllers for Random Access and Local Area Networks, and professional seminars in communication networks.

He has developed a number of original software and hardware products that have been either commercialized or reached the stage of beta test prototypes. These products include:

- **DIGNET:** A self-organizing clustering algorithm used by the industry for data mining application as a commercial product.
- **Ver-i-Fus:** An integrated access control and information monitoring and management system with biometric (fingerprint) verification capabilities
- **Fus-A-Fis:** An automated fingerprint identification system for law enforcement applications.
- **MMSE-PC:** A decentralized controller for stabilizing and improving the performance of ALOHA-type (point-to-point and LAN), unstable random access networks.
- **IRODESS:** A 3-D computer-aided software for the design and animation of robotic manipulators on PC.
- **RobCFAR:** A robust CFAR multi-sensor fusion software package currently used by the US Air Force.
- **JDEF:** A joint detection-estimation nonlinear filter for multi-radar signal processing.
- **Improved Performance MRAC:** The first algorithm that allows control of transient behavior of a Model Reference Adaptive Controller for linear, and a class of nonlinear, systems.
- **Biological controller for walking hexapods:** A biology-inspired, self-learning, controller for hexapod robots.
- **Hybrid Adaptive Array:** A hybrid, high resolution adaptive array for signal detection in the presence of very low signal-to-noise ratio and interference, from fading and multi-path. The design is under testing for possible application in mobile radios.
- **VeriEasy Bio-API®** compliant multi-biometrics integration platform.
- **e-Pyxis** document management and e-learning platform based on open source software.
- **Taxi on Demand** automated booking system with privacy policies and location-based ad hoc grouping (LBAG).

- **Optitrans™** Multimodal Journey Planner (www.optitrans.net) and mobile applications (iOS, Android, and Windows).
- **ELECTRA-DX™** Indoor Localization, Telemetry with video streaming and digital communications Control & Command System for First Responders.
- **OCULUS Sea™** Integrated Maritime Surveillance Control & Command System.
- **wayGoo™** A Platform for Indoor for Geolocating and managing Indoor Spaces & Content with Multidimensional Indoor Navigation and Guidance.
- **iGuide™** A Platform for 3D Modelling, Gamification, Virtual & Augmented Reality Digital Immersive Cultural Environments.
- **iCrowd™** A Platform for Human and Crowd Behavior Modelling & Simulation
- **PYRONES™** An Integrated Platform for Fire Propagation, Crowd Behavior and Injury Modelling & Simulation in Indoor Environments with BIM (Building Information Management) Visualization for Engineering Design Applications & training of First Responders.

Patents

- “A method for the identification of a human being,” US Patent No. **5,978,495**. Submission date: 17 July 1996, Publication date: 2 November 1999. The patent has been **referenced (cited) by 109** subsequently submitted and granted patents (source: <http://www.google.com/patents/US5978495#forward-citations>).

Summary of Academic Indicators

SUMMARY OF ACADEMIC INDICATORS		
Publications (Magazines, Books, Conference Proceedings)	Publications	Citations (≥)
Refreed Journals	46	1854
Refreed Proceedings	190	871
Book chapters	10	14
Patents	1	109
TOTAL		
Total Publications	247	
Total Citations (≥)		2848
Technical Reports/Project Deliverables (≥)	140	
PhD Dissertation Supervised & Completed (under completion)	19 (4)	
EXTERNAL FUNDING	Number of funded projects	In Euro
Total of present and past funded projects	51	
Total External Funding		22.877.316,00 €
Active Funded Projects	15	
Total Funding of currently active projects		6.318.670,00 €

Publications to Refereed Journal

Index	Publications to Refereed Journals	Number of Citations: (Sources: 1. 2. 3)
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1985

1	S. C. A. Thomopoulos, "Minimum Error Entropy Estimation and Entropic Prediction Filtering: An Optimal Predictive Coding Scheme," IEEE Transactions on Information Theory, Sept. 1985, Volume IT-31, No. 5, pp. 697-703, 1985.	3
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1987

2	S. C. A. Thomopoulos, R. Viswanathan and D. K. Bougoulas, "Optimal Decision Fusion in Multiple Sensor Systems," IEEE Transactions on Aerospace and Electronic Systems, Sept. 1987, Volume 23, No. 5, pp. 644-653, 1987.	405
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1988

3	S. C. A. Thomopoulos, "A Simple Versatile Decentralized Control for slotted ALOHA, reservation ALOHA, and Local Area Networks," IEEE Transactions on Comm., June 1988, Volume 36, No. 6, pp. 662-674, 1988.	44
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181	John M. A Bothos and S. C. A. Thomopoulos," Factors influencing crime rates: an econometric analysis approach," SPIE DSS 2016 - Defense, Security and Sensing, Convention Center Baltimore, Baltimore, Maryland, United States, 17-21 April, 2016.	
182	Stelios C. A Thomopoulos, Dimitris M Kyriazanos, Alkiviadis Astyakopoulos, Vassilis Lampropoulos, Kostantinos Dimitros, Christos Margonis and Katerina Skroumpelou, "OCULUS fire: a control and command system for fire management with crowd sourcing and social media interconnectivity," SPIE DSS 2016 - Defense, Security and Sensing, Convention Center Baltimore, Baltimore, Maryland, United States, 17-21 April, 2016.	1
183	Giorgos Konstandinos Thanos, Christina Karafylli, Maria Karafylli, Dimitris Zacharakis, Apostolis Papadimitriou, Kostantinos Dimitros, Konstantina Kanellopoulou, Dimitris M Kyriazanos, Stelios CA Thomopoulos, "SYNAISTHISI: An IoT-powered smart visitor management and cognitive recommendations system," SPIE DSS 2016 - Defense, Security and Sensing, Convention Center Baltimore, Baltimore, Maryland, United States, 17-21 April, 2016.	1
184	Dimitris M Kyriazanos, Andreas Zalonis, Olga E Segou, George Vardoulas, and Stelios C. A Thomopoulos "FlySec: a risk-based airport security management system based on security as a service concept," SPIE DSS 2016 - Defense, Security and Sensing, Convention Center Baltimore, Baltimore, Maryland, United States, 17-21 April, 2016.	

185	Stelios C. A Thomopoulos, Christina Karafylli, Maria Karafylli, Dionysis Motos, Vassilis Lampropoulos, Kostantinos Dimitros, and Christos Margonis, "WayGoo: A platform for geolocating and managing indoor and outdoor spaces," SPIE DSS 2016 - Defense, Security and Sensing, Convention Center Baltimore, Baltimore, Maryland, United States, 17-21 April, 2016.	1
186	Stelios CA Thomopoulos, Adam Doulgerakis, Maria Bessa, Konstantinos Dimitros, Giorgos Farazis, Eftichia Georgiou, Tassos Kanellos, Christina Karafylli, Maria Karafylli, Dimitris M Kyriazanos, Vassilios I Kountouriotis, Vassilis Lampropoulos, Christos Margonis, Christos Maroglou, Dionisis Motos, Alexandra Papagianni, Manolis Paterakis, Katerina Skroumpelou, Giorgos Konstandinos Thanos, Ino-Eleni Theodorou, Christina Phobe Thomopoulos, Panagiotis Tsimpiridis, Dimitris Zacharakis, Andreas Zalonis "DICE: Digital Immersive Cultural Environment", EuroMed 2016: Digital Heritage. Progress in Cultural Heritage: Documentation, Preservation, and Protection pp 758-777.	1

2017

183	Konstantinos-Georgios Thanos, Katerina Skroumpelou, Konstantinos Rizogiannis, Dimitris M. Kyriazanos, Alkiviadis Astyakopoulos, Stelios C. A. Thomopoulos, "Fire detection and incidents localization based on public information channels and social media", Proc. SPIE 10200, Signal Processing, Sensor/Information Fusion, and Target Recognition XXVI, 102000T (2 May 2017)	
184	Erik Blasch, Ivan Kadar, Lynne L. Grewe, Richard Brooks, Wei Yu, Andres Kwasinski, Stelios Thomopoulos, John Salerno, Hairong Qi, "Panel summary of cyber-physical systems (CPS) and Internet of Things (IoT) opportunities with information fusion", Proc. SPIE 10200, Signal Processing, Sensor/Information Fusion, and Target Recognition XXVI, 102000O (2 May 2017)	
185	John M. A. Bothos, Konstantinos-Georgios Thanos, Eirini Papadopoulou, Stelios Daveas, Stelios C. A. Thomopoulos, "Mitigating randomness of consumer preferences under certain conditional choices", Proc. SPIE 10200, Signal Processing, Sensor/Information Fusion, and Target Recognition XXVI, 102000R (2 May 2017)	
186	Constantinos Rizogiannis, Konstantinos Georgios Thanos, Alkiviadis Astyakopoulos, Dimitris M. Kyriazanos, Stelios C. A. Thomopoulos, "Sensor data monitoring and decision level fusion scheme for early fire detection", Proc. SPIE 10200, Signal Processing, Sensor/Information Fusion, and Target Recognition XXVI, 102000S (2 May 2017)	

2018

187	Stelios C. A. Thomopoulos, Alkis Astyakopoulos, Constantinos Rizogiannis, Dimitris M. Kyriazanos, "MARINE-EO bridging innovative downstream earth observation and Copernicus enabled services for integrated maritime environment, surveillance, and security," Proc. SPIE 10200, Signal Processing, Sensor/Information Fusion, and Target Recognition XXVI, 102000R (16-19 April 2018), to appear.	
188	Tassos Kanellos, Adam Doulgerakis, Eftichia Georgiou, Maria Bessa, Stelios C. A. Thomopoulos, Argiro Vatakis, Áine Behan, Jon Arambarri, John Salerno, and Hairong Qi, "FocusLocus: ADHD management gaming system for educational achievement and social inclusion", Proc. SPIE 10200, Signal Processing, Sensor/Information Fusion, and Target Recognition XXVI, 102000R (16-19 April 2018), to appear.	

189	Constandinos Rizogiannis, Konstantinos-Georgios Thanos, John M. A. Bothos, Dimitris M. Kyriazanos, Stelios C. A. Thomopoulos, " A novel architecture for behavior/event detection in security and safety management systems", Proc. SPIE 10200, Signal Processing, Sensor/Information Fusion, and Target Recognition XXVI, 102000R (16-19 Aril 2018), to appear.	
190	Constantinos Rizogiannis and Stelios C. A. Thomopoulos, " A two-level forest fire detection scheme applying multiple combination rules", Proc. SPIE 10200, Signal Processing, Sensor/Information Fusion, and Target Recognition XXVI, 102000R (16-19 Aril 2018), to appear.	

TOTAL CITATIONS To Publications in referred Conference Proceedings	871
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Books

Index	Books & Book Chapters	Number of Citations: (Sources: 1, 2, 3)
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1991

1	S. C. A. Thomopoulos, "Decision and Evidence Fusion in Sensor Integration," Advances in Control and Dynamic Systems, Ed. C. T. Leondes, Volume 49, Part 5 of 5, pp. 339-412, Academic Press, Nov. 1991	7
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1994

2	S. C. A. Thomopoulos, R. Viswanathan and D. K. Bougoulas, "Optimal Decision Fusion in Multiple Sensor Systems," in Decision Fusion, Ed. B. V. Dasarathy, IEEE Computer Press, 1994.	
3	S. C. A. Thomopoulos, R. Viswanathan and D. K. Bougoulas, "Optimal Distributed Decision Fusion," in Decision Fusion, Ed. B. V. Dasarathy, IEEE Computer Press, 1994.	
4	R. Viswanathan, S. C. A. Thomopoulos, and R. Tumuluri, "Optimal Serial Distributed Decision Fusion," in Decision Fusion, Ed. B. V. Dasarathy, IEEE Computer Press, 1994.	

1995

5	S. C. A. Thomopoulos, R. Viswanathan and D. K. Bougoulas, "Optimal Distributed Decision Fusion," in Multisensor Integration and Fusion for Intelligent Machines and Systems, Editors R. C. Luo and M. G. Kay, Ablex Publ., Computer Engineering and Computer Science Series, February 1995.	
6	S. C. A. Thomopoulos, R. Viswanathan, and R. Tumuluri, "Optimal Serial Distributed Decision Fusion," in Multisensor Integration and Fusion for Intelligent Machines and Systems, Editors R. C. Luo and M. G. Kay, Ablex Publ., Computer Engineering and Computer Science Series, February 1995.	6

1996

7	S. C. A. Thomopoulos and N. Okello, "Distributed Detection with Consulting Sensors and Communication Cost," SPIE's Milestone Series of Selected Reprints on Sensor and Data Fusion, Ed. F. Sadjadi, June 1996.	
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2007

8	S. C. A. Thomopoulos and N. Argyreas, "Biometric Authentication in Broadband Networks for Location-based Services," Transactions of eBusiness Security Event, Athens Chamber of Commerce and Industry, Athens, Greece, 02-07-2004, IDEA GROUP Inc.. Publisher 701 E. Chocolate Avenue, Suite 200 • Hershey PA 17033-1240, USA, pp. 88-96, 2007.	
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2008

9	S. A. Mitilneos, S. C. A. Thomopoulos, and C. N. Capsalis, "Simulation of small-scale fading in mobile channel models for next-generation wireless communications," in Heterogeneous Next-Generation networking: Innovations and Platform, by Kostopoulos S. and Ioannou K. (Editors), Idea Group Publishing, IRM Press, ππ.321-360, 2008.	
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2009

10	S. A. Mitilneos, C. N. Capsalis, and S. C. A. Thomopoulos, "Simulation of small-scale fading in mobile channel models for next-generation wireless communications", appears in Handbook of Research on Heterogeneous Next-Generation Networking: Innovations and Platform, by Kotsopoulos S.A. and Ioannou K.G. (Editors), Chapter 15, IGI Global Publishing, ISR Press, 2009.	1
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TOTAL CITATIONS To Books & Book Chapters	14
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Patents

Index	Patents	Number of Citations: (Sources: 1. 2. 3)
1	"Method and apparatus for accurate determination of the identity of human beings," US Patent No. 5,978,495.	109

TOTAL CITATIONS to all publications	2846*
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* 2640 according to google scolar on 09/03/2018 excluding self-references

(see below: <https://scholar.google.gr/citations?user=kIzoxbEAAAAJ&hl=en> & <https://scholar.google.gr/scholar?hl=el&q=sca+thomopoulos&btnG=>)

A/A	*Sources of other references:
1	http://citeseer.ist.psu.edu/cs
2	http://wos.ekt.gr/
3	http://scholar.google.com/ https://scholar.google.gr/scholar?hl=el&q=sca+thomopoulos&btnG=



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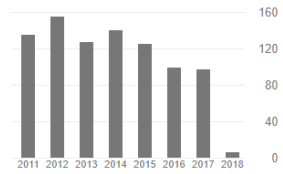
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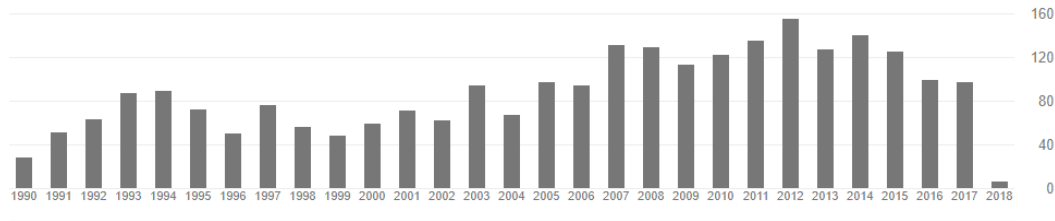
TITLE	CITED BY	YEAR
Optimal decision fusion in multiple sensor systems SCA Thomopoulos, R Viswanathan, DC Bougoulias IEEE Transactions on Aerospace and Electronic Systems, 644-653	405	1987
Distributed fusion architectures and algorithms for target tracking ME Liggins, CY Chong, I Kadar, MG Alford, V Vannicola, S Thomopoulos Proceedings of the IEEE 85 (1), 95-107	350	1997
Optimal distributed decision fusion SCA Thomopoulos, R Viswanathan, DK Bougoulias IEEE Transactions on aerospace and electronic systems 25 (5), 761-765	264	1989
Sensor integration and data fusion SCA Thomopoulos Journal of Field Robotics 7 (3), 337-372	162	1990
Optimal serial distributed decision fusion R Viswanathan, SCA Thomopoulos, R Tumuluri IEEE Transactions on Aerospace and Electronic Systems 24 (4), 366-376	120	1988
Neural network implementation of the shortest path algorithm for traffic routing in communication networks SCA Thomopoulos, L Zhang, CD Wann Neural Networks, 1991. 1991 IEEE International Joint Conference on, 2693-2702	108	1991
Method and apparatus for accurate determination of the identity of human beings SCA Thomopoulos, JG Reisman US Patent 5,978,495	84	1999
Distributed decision fusion in the presence of networking delays and channel errors SCA Thomopoulos, L Zhang Information Sciences 66 (1-2), 91-118	71	1992

Cited by [VIEW ALL](#)

	All	Since 2013
Citations	2640	594
h-index	21	12
i10-index	40	14



Citations per year



Software & Hardware Prototypes & Products

A/A	Name & Type (hardware/software)
1	IRODESS: An Integrated Robot Design and Simulation Systems, 1985.
2	MMSE-PC: A decentralized controller for stabilizing and improving the performance of ALOHA-type (point-to-point and LAN), unstable random access networks.
3	RobCFAR: A Robust CFAR Fusion Package for Multiradar Detection and Simulation (PreDetection Fusion Program), 1990.
4	DIGNET: A self-organizing clustering algorithm used by the industry for data mining application as a commercial product.
5	MCF/JDEF: A Novel Image Processsing and Fusion Software for Ladar and FLIR Data Processing and Fusion, 1992
6	FUS-A-FIS®: A High-Volume, High-Speed Automated Fingerprint Identification System, 1992-93.
7	Ver-i-Fus®: Advanced, Integrated Access Control, Time & Attendance, and Biometric ID Verification System, 1994-95.
8	Improved Performance MRAC: Ο πρώτος αλγόριθμος που επιτρέπει τον έλεγχο προσωρινής συμπεριφοράς ενός προσαρμοσμένου ελεγκτή μοντέλου αναφοράς για γραμμικά και μια τάξη από μη γραμμικά συστήματα.
9	Biological controller for walking hexapods: A biology-inspired, self-learning, controller for hexapod robots.
10	Hybrid Adaptive Array: A hybrid, high resolution adaptive array for signal detection in the presence of very low signal-to-noise ratio and interference, from fading and multi-path. The design is under testing for possible application in mobile radios.
11	VeriEasy Bio-API® compliant multi-biometrics integration platform.
12	e-Pyxis document managment and e-learning platform based on open source software.
13	Taxi on Demand automated booking system with privacy policies and location-based ad hoc grouping (LBAG).
14	Optitrans™ Multimodal Journey Planner (www.optitrans.net) and mobile applications (iOS, Android, and Windows).
15	OPTI-GIS: Geographic Information, Routing & Navigation System for back-office and mobile LBS (location-based system) applications.
16	ZILEN: GPS & Zigbee-based platform for indoor localization and mesh communication.
17	ELECTRA-DX™ Indoor Localization, Telemetry with video streaming and digital communications Control & Command System for First Responders.
18	OCULUS Sea™ Integrated Maritime Surveillance Control & Command System.
19	wayGoo™ A Platform for Indoor for Geolocating and managing Indoor Spaces & Content with Multidensional Indoor Navigation and Guidance.
20	iGuide™ A Platform for 3D Modelling, Gamification, Virtual & Augmented Reality Digital Immersive Cultural Environments.

21	iCrowd™ A Platform for Human and Crowd Behavior Modelling & Simulation.
22	PYRONES™ An Integrated Platform for Fire Propagation, Crowd Behavior and Injury Modelling & Simulation in Indoor Environments with BIM (Building Information Management) Visualization for Engineering Design Applications & training of First Responders.
23	inEarth™ A software package for Pre-Processing of Low Frequency Electromagnetic Signal Returns from Oil Fields Exploration, Signal Visualization, and Oil Field Detection Using Forward & Inverse Finite Element Analysis.

PRODUCTIONS

«Το Ταξίδι της Αριάδνης»

“**Ariadne’s Journey**” is an audio-visual experience inspired by the world of Knossos, which combines innovative techniques of projection mapping with 2D/3D animation, while set to an original musical score. Between cinematic narrative and installation art, viewers of all ages are invited to experience an adventure in three dimensions.

The production was featured at the Athens Science Festival (ASF), 25 & 26 April, 2018, and the Amphitheater of NCSD “Demokritos,” 2 & 3 May 2018, and has drawn over 2000 spectators.

Educational Activities

α. Diploma & MS Theses

Index	Title & Student Name
1	R.Bohla, Minimum Mean Squarred Error Control for RA Channels (April '85)
2	A. Navidi., A Single-Shot Search Approach for the Optimization fo Linear and Nonlinear Control Systems with Gradient Technique (March '86)
3	R. Snyder, Decentralized Control of RA Channels: Delay Analysis (August '87)
4	D. Bougoulas, Decentralized Control of RA Channels (April '87)
5	R. Tam, A Study of Isotropic and Anisotropic GIE Robot Manipulators under Optimal Path Control (June '87)
6	N. Okello, Distributed Detection with Communication Cost and Mismatch (December '88)
7	R. Tajik, Decentralized Retransmission and Flow Control of Random Access Channels (December '88)
8	I. Papadakis, Robust Stability of Continuous and Discrete Time Adaptive Systems with Saturating Nonlinearities (May, '88)
9	I. Nillson, An Integrated Tracking System Using Stereo Camera and Range Radar (May '89)
10	A. Nestorides, Distributed Estimation and Control in the Presence of Delays (June '89)
11	A. Rudnik, A Neural Network Controller for the Inverse Pendulum Problem (Undergr. Honors, May '90)
12	M. Galuza, Evaluation of Generalized Evidence Processing Theory (June '90)
13	A. Cutezo, Statist. Discr. Of Swerling Pulse Trains Embedded in AGN (June '90)
14	G. Braught, Self-Organized Reflective Locomotion (July '95)
15	M. Reager, Experimental Validation of Distr. Dec. Fusion (August '95)
16	P. Pawawongsak, Adaptive Array Processing in Correlated (October '95)
17	C. Charoenlar, Beamformer Design in Lultipath and Fading (October '95)
18	A. Φάμελος, Πρακτική Άσκηση, Τεχνολογικό Εκπαιδευτικό Ίδρυμα Αθηνών, Τμήμα Πληροφορικής
19	A. Δουτσιόπουλος, Πρακτική Άσκηση, Αλεξάνδρειο Τεχνολογικό Ίδρυμα Θεσσαλονίκης, Τμήμα Ηλεκτρονικής
20	Γ. Μαλιαμάνης, Πτυχιακή Εργασία με τίτλο «Εφαρμογή Συστήματος Εντοπισμού Θέσης Πραγματικού Χρόνου (RTLS) Σε Εσωτερικό Χώρο», Τεχνολογικό Ίδρυμα Πειραιά, Σχολή Τεχνολογικών Εφαρμογών, Τμήμα Ηλεκτρονικών Υπολογιστικών Συστημάτων.

b. Ph.D. Dissertations

A/A	Title & Candidate Name
1	D. Bougoulas, Self-Organizing Neural Networks for Automatic Pattern Recognition (August '91)
2	R. Tam, A modified Adaptive Control for Robotic Manipulators (June '92)
3	I.Papadakis, Dual Adaptive Control Approach for Linear and Nonlinear Systems (October '92)
4	T.Hillands, Higher Order Filters for Non-Gaussian Noise (October '92)
5	N. Okello, Distributed Decision Fusion with Neural Networks (Spring '94)
6	B. Chen, Application of Kalman Filtering to Image Processing (Spring '94)
7	C.D. Wann, Self-Organizing Neural Networks for Clustering and Data Fusion (Spring '94)
8	J. Reisman, A Data Fusion Approach to Fingerprint Identification for Very Large Databases (Fall '97)
9	J. M. Buyn, A Novel Method for Adaptive Array Design (Fall '96)
10	C. Wai, Apech Recognition and Adaptive Arrays (December '96)
11	M. Bradley Acoustical Holography & Experimental (November '96)
12	F. Demolin & G. Dieu, (These ISEN, France) Simulation d'un Signal Radar (June '94)
13	M. Koutsopoulou, "Dynamic Architecture and Charging Schemes for Reconfigurable 4G Mobile Phone Systems," in collaboration with the University of Athens (Oct. 2005). [Μ. Κουτσοπούλου, «Δυναμική Αρχιτεκτονική και Σχήματα Χρέωσης για Αναδιαμορφώσιμα Συστήματα Κινητών Επικοινωνιών 4ης Γενιάς», σε συνεργασίας ΕΚΕΦΕ "Δ" με ΕΚΠΑ, μέλος τριμελούς εξεταστικής επιτροπής (Οκτ. 2005).]
14	S. Panayiotakis, "A Framework for the implementation of reconfigurable services in mobile phone networks. [Σ. Παναγιωτάκης, "Πλαίσιο για την υλοποίηση ανασχεδιαζόμενων υπηρεσιών για δίκτυα κινητής τηλεφωνίας," σε εξέλιξη.]
15	S. A. Mitilinaios, "Failure Mitigation in Multi-channel Mobile Communications with the use of Smart Antennae," NCSR D and member of the 7-member committee from NTUA, 2006. Σ. Α. Μυτιληναίος, "Αντιμετώπιση διαλείψεων πολυδιαδρομικών επικοινωνιών σε κανάλια κινητών επικοινωνιών με χρήση ευφών κεραιών," ΕΚΕΦΕ "Δ" και ΕΜΠ, μέλος 7-μελούς εξεταστικής επιτροπής, 2006.
16	G. Koskinas, "Location estimation and navigation in indoor environments using smart sensors." Γ. Κοσκινάς, "Εκτίμηση θέσης και πλοήγηση σε εσωτερικούς χώρους με χρήση ευφών αισθητήρων."
17	O. Segou, "Indoor Localization techniques," Advisor in collaboration with NTUA. Dissertation Defense, November 2014.
18	I. Manolopoulos, "Methodologies for Effective Self-adaptive Decisions in Routing, Signaling, Cooperation, and Other Operations in Diverse Mobile Networks" co-advisor, NCSR D with UoA, Dissertation Defense November 2017.
19	Maria P. Kerkidou, "Space Interpretation through Systems of Collective Intelligence," NTUA, Member of the 7-Member Examining Committee, December 2015.

	Μαρία Π. Κερκίδου, “Η Ερμηνεία του Χώρου μέσα από Συστήματα Συλλογικής Νοημοσύνης,» ΕΜΠ, Σχολή Αρχιτεκτόνων Μηχανικών, Μέλος της 7-μελούς Εξεταστικής Επιτροπής, Δεκέμβριος 2015.
20	M. Bessa, “Biomimetic Methods for (Architectural) Design,” Co-Advisor, NTUA & NCSR “Demokritos.” Μ. Μπέσα, «Βιομιμητικές Μέθοδοι (Αρχιτεκτονικού) Σχεδιασμού», Co-Advisor, ΕΜΠ & ΕΚΕΦΕ «Δ».
21	G. K. Thanos, “Quantum Cognition and Recommendation Systems,” Advisor, NCSR & NTUA Γ. Κ. Θάνος, «Κβαντική Κατανόηση και Συστήματα Συστάσεων,» Advisor, ΕΚΕΦΕ «Δ» & ΕΜΠ
22	V. Alexoroulou, “Digital Technologies in Documentaries,” Co-Advisor, UCL & NCSR Β. Αλεξοπούλου, «Ψηφιακές Τεχνολογίες & Ντοκιμαντέρ,» Co-Advisor, UCL & NCSR
23	M. Vampatsikos, “Management of Healthcare Data and Intellectual Property in Participatory Creativity using Blockchains”, Co-Advisor, University of Piraeus Μπαμπάτσικος Μιχαήλ, «Διαχείριση των δεδομένων υγείας και πνευματικών δικαιωμάτων με χρήση blockchain», Co-Advisor, Πανεπιστήμιο Πειραιά

c. Teaching Activities

Index	Courses taught (level)
1	Linear Systems & Signals (undergrad) Γραμμικά Συστήματα και Σήματα (προπτ.)
2	Telecommunications Theory (undergrad) Θεωρία της Επικοινωνίας (προπτ.)
3	Digital Communications (undergrad) Ψηφιακή Επικοινωνία (προπτ.)
4	Control Theory (undergrad) Θεωρία Ελέγχου (προπτ.)
5	Digital Control (undergrad) Ψηφιακός Έλεγχος (προπτ.)
6	Probability & Stochastic Processes (grad) Πιθανότητες και Στοχαστικές Ανελιξίες (μεταπτ.)
7	Computer Communication Networks (grad) Δίκτυα Επικοινωνίας Υπολογιστών (μεταπτ.)
8	Estimation Theory (grad) Θεωρία της Εκτίμησης (μεταπτ.)
9	Detection Theory (grad) Θεωρία της Ανίχνευσης (μεταπτ.)
10	Optimal Control (grad) Βέλτιστος Έλεγχος (μεταπτ.)
11	Robotics (grad) Ρομποτική (μεταπτ.)
12	Artificial Vision (grad) Μηχανική Όραση (μεταπτ.)
13	Adaptive Control (grad) Προσαρμοσμένος Έλεγχος (μεταπτ.)

d. Continuing Education

Index	Seminars
1	Short Course on Data Fusion, Orlando, Florida, USA, 1990-1994, under the auspices of SPIE.
2	Seminars on Data Fusion in French Organizations, Universities, & Research Organizations as an invited speaker by CNRS, Fall 1993.
3	SMART Camp™ (http://smart-camp.iit.demokritos.gr/) Summer Workshops in Robotics and Digital Arts for students 13-18 years old organized by ISL. SMARTCamp™ (http://smart-camp.iit.demokritos.gr/) Καλοκαιρινά Ολοήμερα Εβδομαδιαία Σεμινάρια σε Ρομποτική & Ψηφιακές Τέχνες για μαθητές/μαθήτριες ηλικίας 13-18 ετών από το ISL.

e. Workshops

Index	Seminars
1	“Smart specialization, research ecosystems and Economic growth: The Greek Tourism in the new era,” One day workshop, 2nd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 06-07, 2014 (http://www.demokritos.gr/HF2014/pressrelease/AGENDA_FINALv1.pdf)
2	“Advances on Security & Safety,” One day workshop, 2nd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 06-07, 2014 (http://www.demokritos.gr/HF2014/pressrelease/AGENDA_FINALv1.pdf)
3	“Advances on Oil & Gas Exploration,” One day workshop, 2nd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 06-07, 2014 (http://www.demokritos.gr/HF2014/pressrelease/AGENDA_FINALv1.pdf)
4	“Maritime Security & Safety - Land Border Security - Cyber Security, Privacy and Trust,” 3rd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 04-07, 2015 (http://events.demokritos.gr/wp-content/uploads/2015/06/AGENDA_HF2015_.pdf)
5	“Immersive Digital Environments, Culture and Tourism,” 3rd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 04-07, 2015 (http://events.demokritos.gr/wp-content/uploads/2015/06/AGENDA_HF2015_.pdf)
6	“Oil & Gas technologies: Opening New Frontiers for Advanced Research & Innovative Business in the Oil & Gas Industry in Greece,” 3rd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 04-07, 2015 (http://events.demokritos.gr/wp-content/uploads/2015/06/AGENDA_HF2015_.pdf)

e. Keynote Speeches

Index	Title
1	“Omnipresent or Private?,” Summer School 2006, NCSR “Demokritos,” July 2006. ‘Πανταχού Παρών ή Ιδιωτικός;’, Θερινό Σχολείο 2006, ΕΚΕΦΕ ‘Δημόκριτος,’ Ινστιτούτο Πληροφορικής & Τηλεπικοινωνιών, Ιούλιος 2006.
2	«ToD Pilot: A Location-Based Taxi on Demand System Demonstrator», Authors: Thomopoulos, S. C. A., Argyreas, N., Gorgas, V., Kyriazanos, D., Soulos, G., and Makri, E. The 18th Annual IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (PIMRC'07), Athens,

	Greece, Sept. 2007.
3	“Applications of Telematics based on the knowledge of the user’s location,” “Pame Demokrito (Let’s Go to Demokritos” Workshop, 19 Oct. 2007. «Εφαρμογές Τηλεματικής με γνώση της θέσης του χρήστη» ομιλία στην Ημερίδα «Πάμε Δημόκριτο» για τελειόφοιτους επιλεγμένων Λυκείων, Κεντρικό Αμφιθέατρο ΕΚΕΦΕ ‘Δημόκριτος’, 19 Οκτωβρίου 2007.
4	“Taxi on Demand: A Location-based Telematics Application,” TAXI SHOW 2007, Ellinikon (ex-) Airport Exhibition Center, Athens, 9-11, Nov. 2007. «Ταξί Τώρα: Εφαρμογή Τηλεματικής με Γνώση τη Θέση του Χρήστη», TAXI SHOW 2007, Εκθεσιακό Κέντρο (πρώην) Ελληνικού Αεροδρομίου, Αθήνα, 9-11 Νοεμβρίου 2007.
5	“Way of operation of biometrics & ways to exploit biometrics data,” EXPOSEC 2008, Zappeio Megaro, Athens, Greece, 31 March, 2008.
6	“Smart specialization, research ecosystems and Economic growth: The Greek Tourism in the new era,” One day workshop, 2nd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 06-07, 2014 (http://www.demokritos.gr/HF2014/pressrelease/AGENDA_FINALv1.pdf)
7	“Advances on Security & Safety,” One day workshop, 2nd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 06-07, 2014 (http://www.demokritos.gr/HF2014/pressrelease/AGENDA_FINALv1.pdf)
8	“Advances on Oil & Gas Exploration,” One day workshop, 2nd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 06-07, 2014 (http://www.demokritos.gr/HF2014/pressrelease/AGENDA_FINALv1.pdf)
9	“Maritime Security & Safety - Land Border Security - Cyber Security, Privacy and Trust,” 3rd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 04-07, 2015 (http://events.demokritos.gr/wp- content/uploads/2015/06/AGENDA_HF2015_.pdf)
10	“Immersive Digital Environments, Culture and Tourism,” 3rd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 04-07, 2015 (http://events.demokritos.gr/wp- content/uploads/2015/06/AGENDA_HF2015_.pdf)
11	“Oil & Gas technologies: Opening New Frontiers for Advanced Research & Innovative Business in the Oil & Gas Industry in Greece,” 3rd Hellenic Forum for SCIENCE, TECHNOLOGY AND INNOVATION, 29-06 to 04-07, 2015 (http://events.demokritos.gr/wp- content/uploads/2015/06/AGENDA_HF2015_.pdf)

f. Exhibits

Index	Exhibit Title & Place
1	Exhibit as Intelnet Inc. the “VeriFus & Fus-A-Fis” products at ASIS 1996 through ASIS 1998, the “recognized world leader in security exhibits,” http://www.asisonline.org/ .
2	Exhibit «LIAISON – Taxi on Demand» στην έκθεση IST Mobile Summit, Myconos, Greece, 04-08 June 2006. Συμμετοχή με περίπτερο «LIAISON – Taxi on Demand» στην έκθεση IST Mobile Summit, Myconos, Greece, 04-08 June 2006.
3	Exhibit “Taxi on Demand” (a telematics application for automated taxi booking and booking handling developed within the LIAISON – IST-511766 FP6 Integrated Project (IP), at TAXI SHOW 2007 Ellinikon (ex-) Airport Exhibition Center, Athens, 9-11, Nov. 2007. Συμμετοχή με περίπτερο «Ταξί Τώρα» (Taxi on Demand / LIAISON IP), στην

	έκθεση TAXI SHOW 2007, Εκθεσιακό Κέντρο (πρώην) Ελληνικού Αεροδρομίου, Αθήνα, 9-11 Νοεμβρίου 2007.
4	OPTI-TRANS at Innovation Convention 2011, Innovation Convention 2011 Exhibition that took place in Brussels, 5-6 December 2011. (ref to OPTI-TRANS: Optimised Transport System, FP7-GALILEO-2007-GSA-1-Contract no.:228382; Jan. 2009 – Dec. 2011)
5	DITSEF exhibition during the 20 th International Trade Fair for Security and Fire Protection, Essen, Germany, September 25-28, 2012.
6	1st Greek Innovation Expo 2013, HELEXPO PALACE, ISL Platforms, Athens 16-19 May 2013.
7	MWC: Mobile World Congress , February 2015, Barcelona, Spain. Participated as ISL NCSRΔ with the HAMAC Pavillion and as Claret Inc. in the FYN Start-ups Exhibition.
8	“Beyond the monument: Archaeological Exercises,” Αρχαιολογικοί Διαλόγοι 2015, Participation: Media Art Innovation ISL Unit, Hellenic Archaeological Society, Athens, 9-11 January 2015.

g. Articles in Trade Magazines

Index	Title & Magazine
1	«Ταξί Τώρα» - ΕΚΕΦΕ «Δ», Άρθρο Νατάσσας Στάμου, Περιοδικό TAXI Magazine, Έτος 6ο, Τεύχος Νοεμβρίου-Δεκεμβρίου, 2007, σελ. 28-29.
2	«Ταξί Τώρα – Αυτοματοποιημένο σύστημα διαχείρισης οχημάτων», Συνέντευξη Νατάσσας Στάμου με Σ. Χ. Α. Θωμόπουλο, Περιοδικό TAXI Magazine, Έτος 6ο, Τεύχος Ιανουαρίου-Φεβρουαρίου, 2008, σελ. 34-36.
3	Τεχνολογική Εξέλιξη: Παρουσίαση Αυτοματοποιημένου συστήματος διαχείρισης στόλου ταξί «Ταξί Τώρα», Άρθρο Κ. Γαμβρούλης, Περιοδικό Auto Τρίτη, Τεύχος Φεβρουαρίου 2008, σελ. 52-54.
4	OPTI-TRANS Innovation Convention 2011 , Innovation Convention 2011 Exhibition , Brussels, 5-6 December 2011. (ref to OPTI-TRANS: Optimised Transport System, FP7-GALILEO-2007-GSA-1-Contract no.:228382; Jan. 2009 – Dec. 2011)
5	DITSEF exhibition during the 20 th International Trade Fair for Security and Fire Protection, Essen, Germany, September 25-28, 2012.

h. Interviews

Index	Topic & Medium
1	<p>“Taxi on Demand”: An Automated Dispatch and Booking Handling Systems for Taxis, interviewed by A. Mose in weekly radio show “Taxi News” of Pireaus Radio 98.4 FM., May 4, 2008.</p> <p>«Ταξί Τώρα - Αυτοματοποιημένο σύστημα διαχείρισης οχημάτων», Ζωντανή Συνέντευξη από το δημοσιογράφο Αλέξανδρο Μοζ στην εβδομαδιαία εκπομπή «Ταξί Νέα» στο ραδιοφωνικό σταθμό Πειραιάς 98.4FM, 4 Μαΐου, 2008.</p>

Monographs

Index	Title
1	"Minimum Error Entropy Estimation and Entropic Prediction Filtering: An Optimal Predictive Coding Scheme, "State University of New York, Buffalo (February 1983).

Funded Research Projects

α. European Projects – As Scientific Coordinator

A. European Projects - As Scientific Coordinator		Total Budget for NCSR "D" in thousands of (€)	Total Budget for the entire Program in thousands of (€)
Project No.	Program Title		
833	WIN: Wireless Internet Network, IST – 1999 –20947, IST Programme, EU, Nov. 2000 – May 2002.	1.218,42	2.453,48
983	BEE: Biometrics E Enterprise, IST-1999, Subcontractor to the Project Leader representing him at the final project review by EU, May – Septemebr, 2002.	10,00	3.456,65
1004	Ελληνογερμανική Συνεργασία - 2001-2003	15,00	15,00
1184	LIAISON: Location based Services for the enhancement of working environment, IP-IST-511766, Integrated Project, EU, Sept. 2004 - Aug. 2008.	1.084,37	19.960,75
1124	MAMBO: Multi-Services Management Wireless Network with Bandwidth Optimisation," 2001 – 2004	396,13	4.012,69
1292	IMOSAN: Integrated Multi-layer Optimization in broadband DVB-S.2 Satellite Networks," 2005-2007.	447,68	1.645,75
1424	EMERGE: Emergency Monitoring & Prevention, STREP-IST-045056, EU, Feb. 2006 – Jan. 2009.	396,13	4.012,69
1541	OPTI-TRANS: Optimised Transport System, FP7-GALILEO-2007-GSA-1-Contract no.:228382; Jan. 2009 – Dec. 2011.	447,68	1.645,75
1564	HMFM: HearMeFeelMe- Compensating for Eyesight with Mobile Technology, AAL-1 Joint Project Programme, June 2009 – May 2011.	464,93	2.196,92
1569	DITSEF: Digital Innovative Technologies for Security & Efficiency of First Responder Operations, STREP-ICT Security 2 nd Call – FP7.	636,15	4.223,58
1589	TASS: Total Airport Security System, April 2010 – Mar. 2014, FP7-SEC-2010.	692,55	16.067,16
1630	PERSEUS: Protection of EuRopean borders and Seas through the intelligent Use of Surveillance, Jan 2011 – Dec 2014, Joint Call FP7- 2010-1	2.203,90	42.295,35
1653	ACRIMAS: Aftermath Crisis Management System-of-systems Demonstration – Phase I Surveillance Feb. 2011 – May 2012, Joint Call FP7- 2010-1	93,01	1.666,12
1681	PACT: Public perception of security and privacy: Assessing knowledge, Feb 2012 – Jan 2015, FP7-SEC-2011-1	283,05	2.675,01
1692	HIT GATE: Heterogeneous Interoperable Transportable GATEway for First-Responders Feb. 2012- Jul 2014	422,99	5.051,09

	FP7-SECURITY-Call4		
1713	HIPOW: Protection of Critical Infrastructures against High Power Microwave Threats Jun 2012- May 2015, FP7-SECURITY-Call4-2011-1	317,50	4.509,00
11887	PYRONES: PYRo-mOdellinNg and Evacuation Simulation system	207,00	398,33
11880	CyberROAD - Development of the CYBER crime and CYBER terrorism research ROADmap	78,94	1.510,59
11879	AF3 - Advanced Forest Fire Fighting	1.419,93	19.270,38
11904	EUCISE 2020 "EUropean test bed for the maritime Common Information Sharing Environment in the 2020 perspective"	1.062,37	17.053,92
11925	FLYSEC: Optimising time-to-FLY and enhancing airport SECURITY – H2020	722,75	4.141,37
11938	DOGANA - aDvanced sOcial enGineering And vulNerability Assesment Framework – H2020	147,62	5.805,61
11924	EuTravel - Optimodal European Travel Ecosystem – H2020	172,35	3.873,99
11967	HELLENIC CISE: Hellenic Adaptor for connecting with CISE	220,61	467,94
12127	FocusLocus: ADHD management Gaming System for educational achievement and social inclusion – H2020	208,02	999,56
12136	MARINE-EO: Bridging Innovative Downstream Earth Observation and Copernicus enabled Services for Integrated maritime environment, surveillance and security	231,86	4.378,58
12140	CY CISE - Cypriot information sharing environment towards an integrated national maritime surveillance awareness and enhancement of cross-sector and cross-border exchange of information	245,48	399,14
12155	SAINT – Systemic Analyser In Network Threats – H2020	386,45	1.998,70
Contra cted	TRESSPASS - robusT Risk basEd Screening and alert System for PASSengers and luggage –H2020 2018-2022	929,00	8299,39
Contra cted	CIVILNEXT - Next generation of information systems to support EU external policies – Pre-Commercial procurement PCP – H2020 2018-2020	445,50	11.109,64
	TOTAL	15.607,37	195.594,13

b. European Projects as Researcher – Member of Research Team

B. European Projects as Collaborating Researcher & Member of Research Team		Total Budget for NCSR "D" in thousands of (€)	Total Budget for the entire Program in thousands of (€)
Project No.	Program Title		
1123	ATHINA: Digital Switchover: Developing Infrastructures for Broadband Access, IST/FP6-507312	573,52	3.555,70
1124	ENTHRONE I: End-to-End QoS through Integrated Management of Content, Networks and Terminals, IST/FP6-IP-507637	520,55	11.990,79
1292	IMOSAN: Integrated Multi-layer Optimization in broadband DVB-S.2 Satellite Networks, IST/FP6-025457, Jan. 2006- Nov. 2007.	848,26	5.103,40
1296	UNITE: Distributed Testbed for Optimisation and Coexistence of Heterogeneous Systems, IST-4-026906, Feb. 2006 - Jan. 2009.	564,66	4.956,28
1483	HURRICANE: Handovers for Ubiquitous and optimal bRoadband connectivity among CooperAtive Networking Environments, ICT-1-1.1-216006, Jan. 2008-Dec. 2010.	706,68	3.748,15
1375	ENTHRONE II: End-to-End QoS through Integrated Management of Content, Networks and Terminals, IST/FP6-IP-38463, Sept. 2006 – Aug. 2008.	790,86	14.355,70
1487	ADAMANDIUM: ADAPtative Management of mediA distribution based on saTisfaction oriented User Modelling, FP7-STREP-214751, March 2008-Feb 2011	683,00	4.303,83
1680	LET-SME Support Consultancy R&D services on Wireless Sensor Networks to INFITHEON Jun. 2011 – Dec. 2012 (subcontracting)	20,00	
1672	GERYON Next Generation Technology Independent Interoperability of Emergency Services, FP7-SECURITY-Call4, 01/12/2011 - 31/05/2014	530,83	3.590,00
1675	SAVASA Standards Based Approach to Video Archive Search and Analysis, FP7/SEC, 1/12/2011 – 31/5/2014	527,50	4.100,00
	TOTAL	4.887,53	32.546,36

c. Other Overseas Programs (USA)

c. Other Overseas Programs (USA) – as Scientific Coordinator		Total Budget for NCSR “D” in thousands of (\$)	Total Budget for the entire Program in thousands of (\$)
1	"High-Accuracy Fingerprint-based Access Control System," Ben Franklin Technology Center, USA, 1995 - 1996.	650,00	650,00
2	Determination of Phase Modulating Function from a Frequency Spectrum Definition, Naval explosive Ordnance Disposal Technology Center, USA, 1993-1994.	81,60	536,24
3	Algorithms for Multidimensional Processing and Visualization on Massively Parallel Machines, National Science Foundation, Engineering Research Equipment Grant; USA, 1992 - 1995.	149,87	636,27
4	Predetection Fusion, ARVIN Calspan Aerospace (through Detrose Industries), RADC Predetection Fusion Program, USA, 1993.	6,08	6,08
5	Predetection Fusion, ARVIN Calspan Aerospace (through Detrose Industries), RADC Predetection Fusion Program, USA, March 1992.	17,14	17,14
6	Predetection Fusion, with Calspan Aerospace and Crumman Corp., Rome Lab, Predetection Fusion Program, 1993-1995.	1.300,00	5,365.73
7	Research Initiation Grant (RIG) Program, Penn State University, USA, 1991-92.	14,12	14,12
8	Integrated Detection, Estimation and Communication Theories: Renewal Proposal, Office of Naval Research, SDIO/IST Innovative Science and Technology Office, 06/1988 - 06/91, \$180,000, PI.	180,00	180,00
9	College of Engineering and Technology Research Fund, Southern Illinois University, 1986-87.	20,00	20,00
10	Integrated Detection, Estimation and Communication Theories, Office of Naval Research, SDIO/IST Innovative Science and Technology Office, submitted May 1985, awarded April 1986, 3 years, \$361,974, PI.	361,20	361,20
11	Research Foundation Summer Fellowship, Southern Illinois University, 1984.	3,69	3,69
12	Decentralized Control Algorithms for Random Access Communication Networks Using a State Space Approach, National Science Foundation, Research Initiation Award, 1984-1986, PI.	53,78	53,78
13	State Space Approach in Modeling, Estimating and Controlling Random Access Communication Networks, Office of Research and Development, Southern Illinois University, submitted Aug. 1983, awarded Dec. 1983, \$9,306 with additional \$2,952, PI.	12,26	12,26
TOTAL		2.849,74	8.487,44

D. National Programs

D. National Programs (GSRT, etc) – As Scientific Coordinator		Total Budget for NCSR “D” in thousands of (€)	Total Budget for the entire Program in thousands of (€)
Project No.	Program Title		
1101	Bioathletics	58,85	873,33
1119	AΘΕΝΣ	62,54	593,07
1129	eSchoolLib	170,00	680,00
983	«Σχεδιασμός & Υλοποίηση του Δικτυοχώρου της Ελληνικής Επιτροπής Ατομικής Ενέργειας (ΕΕΑΕ),» 2002 – 2003	5,00	5,00
	«ΣΥΝΑΙΣΘΗΣΗ: Ευφυή Δίκτυα Συλλογής και Επεξεργασίας Δεδομένων για Εξοικονόμηση Ενέργειας,» ΔΡΑΣΗ ΕΘΝΙΚΗΣ ΕΜΒΕΛΕΙΑΣ «ΑΝΑΠΤΥΞΙΑΚΕΣ ΠΡΟΤΑΣΕΙΣ ΕΡΕΥΝΗΤΙΚΩΝ ΦΟΡΕΩΝ- ΚΡΗΠΙΣ», ΕΠΙΧΕΙΡΗΣΙΑΚΑ ΠΡΟΓΡΑΜΜΑΤΑ «ΑΝΤΑΓΩΝΙΣΤΙΚΟΤΗΤΑ & ΕΠΙΧΕΙΡΗΜΑΤΙΚΟΤΗΤΑ» ΚΑΙ ΠΕΡΙΦΕΡΕΙΩΝ ΣΕ ΜΕΤΑΒΑΣΗ ΕΘΝΙΚΟ ΣΤΡΑΤΗΓΙΚΟ ΠΛΑΙΣΙΟ ΑΝΑΦΟΡΑΣ ΕΣΠΑ 2007-2013.	175,00	1.100,00
	SIEMENS Reconciliation Research Fund	100,00	100,00
12181	SYNTELESIS “Innovative Technologies and Applications based on the Internet of Things (IoT) and the Cloud Computing” (MIS 5002521) implemented under the “Action for the Strategic Development on the Research and Technological Sector”, funded by the Operational Programme "Competitiveness, Entrepreneurship and Innovation" (NSRF 2014-2020) and co-financed by Greece and the European Union (European Regional Development Fund)	740,00	740,00
GA to be signed	COSMOS - Cultural Osmosis - Mythology and Art: 2018-2021	134,62	216,85
GA to be signed	NARRATION - Integrated system for management and curation of digital content and production of personalized and collaborative narratives: 2018-2021	201,33	487,29
GA to be signed	ESTIA - Disaster Management Platform for Cultural Heritage Sites: 2018 – 2021	162,69	654,22
GA to be signed	TMI_Builder - Tailor-Made Itinerary Builder: Automated system for the provisioning of personalized recommendations and content for traveling tourists: 2018-2021	208,02	269,92
	TOTAL	1.843,05	4.619,68

e. Funding for Educational Programs

E. Funding for Educational Programs	Total Budget in thousands of (\$)
Program title	
"Computer Aided Control Systems Design," College of Engineering Computer Surcharge Funds, Penn State University, 1990-1994.	77,00
"Laboratory Equipment for EE404 Writing Course, Penn State University, FY 1993-94.	18,00
TOTAL	95,00

Honorary distinctions and awards for research, educational and other professional activities

IEEE Senior Member

Best Paper Presentation Award on Adaptive Control Session, American Control Conference, ACC '93, San Fransisco, CA, June 1993.

Short-listed by the Bodossakis Foundation Fellowship Committee as one of the six most eminent Greek scientist under age 40 in the field of Artificial Intelligence and Neural Networks worldwide.

Honorary Mention, Penn State Graduate Research Exhibition 1991 for the project "Visual Pattern Recognition Using Morphological Methods: AN Artificial Neural Network Approach," Graduate students: J. G. Reisman and I. N. M. Papadakis.

Honorary Mention, Penn State Graduate Research Exhibition 1994 for the project "A Neural Architecture for Learning Hexapod Locomotion based upon Insect Neurophysiology," Graduate student G. Braught.

Meritorious Awards to students for exceptional research under Dr. Thomopoulos' auspices.

1991 Premier Research Award of Electrical & computer Engineering Department. Receptient: Ioannis N. M. Papadakis. (The award was instituted in 1991; the candidate's graduate student was the first recipient ever and the only one for that year).

Paul F. Anderson Fellowship Award, 1991-1992, Chin-Der Wann

Awards received by candidate's graduate students (continued)

Palmer Fellowship Award, 1993-1994, Chin-Der Wann

Paul F. Anderson Fellowship Award, 1993-1994, Nickens N. Okello

Active Member of and activities in professional societies

Reviewer for the IEEE Transactions on Information Theory, Communications, Automatic Control, Aerospace and Electronic Systems, Acoustics, Speech and Signal Processing, and Computers.

Reviewer for the Journal of Robotic Systems.

Reviewer for the SIGPRO Signal Processing, an Elsevier Research Publications Magazine.

Program committee member for SPIE Conference on Sensor Fusion, Boston, MA, 1991-1999.

Reviewer for Conference on Decision and Control '90, '91, and '92.

Organizer and Chairman of Sensor Fusion and System Integration Conference at the SPIE-FAA-European FAA Substance Identification Conference, Vienna, Austria, October 1993.

Editor for Sensor Fusion and System Integrstion of Proceedings on SPIE Vol. 2093.

Co-chairman of a Data Fusion Session at the IEEE SMC International Conference of Robotics, Lille, France, October 1993.

Session Chair for Adaptive Control, American Control Conference, ACC '93, San Fransisco, CA, 1993.

Session Chair for Neural Networks, American Control Conference, ACC '94, Baltimore, MD, June 1994.

Organizer and Presenter the one-day short course on Data Fusion System Design, SPIE AeroSense Conference, Orlando, FL, from 1991 to 1995.

Proposal Reviewer & Project Evaluator for the European Union Commission (1998 – to date).

Program committee member (1990 to 2015) for SPIE Conference on Defense Security and Sensing for Signal Processing, Sensor Fusion, and Target Recognition I - XVIII, Orlando, Florida, 1990-2008.

Service to committees, university, research organizations, government, public & private organizations

Served in numerous department, College, and University level committees. A sample of committee service follows:

Engineering Open House Coordinator, EE and Engr. College, PSU, 1990;
Graduate Committee, EE, PSU, 1992-95;
Chair of Signals & Systems Area Committee, EE, PSU, 1993-95,
Signals & Systems Area Committee, EE, PSU, 1989-93;
Engr. College Control Curriculum Committee, PSU, 1993-95;
Engr. College Math Revision Curriculum Committee, PSU, 1993-94;
Hellenic Student Association Faculty Advisor, PSU, 1989-95;
Chair of Salary Committee, EE, SIU, 1983-1986;
Undergraduate & Graduate Curriculum Committee, EE, SIU, 1983-1988;
Faculty Recruitment Committee (Chair), EE, SIU, 1984-87;
Chairman Search Committee (Chair), EE, SIU, 1986;
College Computer Affairs Committee, SIU, 1983-86.

President of the Greek Orthodox Church Counsel providing services to the State College community and to the Penn State University student body, 1994 to 1997.

Advisor to French CNRS (Centre National de Recherche Scientifique): Spent Fall '93 in France invited and financed by CNRS to monitor and coordinate the research activities of the French scientific and industrial community on Data Fusion.

Proposal evaluator for the GGRD of the Ministry of Development, Greece, 1999-2001.

Program Reviewer for the Commission of the European Union, 2000- todate.

1st National Representative of Greece to the European Space Agency (ESA) - ARTES Program, 2002-2004.

Vonunteer to Olympic Games “Athens 2004” as Assistant to the Canadian National Olympic Associations, July-August 2004.