

# Dr. Sotirios Bersimis

## Associate Professor of Statistics

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### Competencies

A statistician with a strong academic record and an expertise in industrial and health statistics as well as an awarded leader with demonstrated ability to manage organizational and cultural change and create productive teams.

Expert in business reengineering and strong strategic planning, digital transformation, innovation development, negotiation, problem-solving and decision-making abilities.

### Education

**1998** BSc in Statistics and Insurance Science from the University of Piraeus.

**2000** MSc in Statistics from the Athens University of Economics and Business.

**2005** PhD<sup>1</sup> in Statistics and Insurance Science from the University of Piraeus.

**2007** Postdoc<sup>2</sup> in Statistics and Insurance Science from the University of Piraeus.

<sup>1</sup>PhD has been funded by the National General Secretary of Research and Technology

<sup>2</sup>Post-doctoral Research has been funded by the National State Scholarships Foundation.

### Career Summary

#### Strong academic record.

An Associate Professor at the Department of Statistics and Insurance Science, University of Piraeus, an elected member of the board of Directors of the National Statistical Institute and an elected member of the International Statistical Institute. His teaching involves mainly "Industrial Statistics", "Business Analytics" and "Health Statistics". He has co-authored more than sixty papers in international scientific journals (among others, Journal of Quality Technology/2, Journal of Applied Stochastic Models in Business and Industry/1, European Journal of Operational Research/1) and 5 books (Mathematics, Statistics/2 and Informatics/2). His work has been presented in more than seventy international conferences worldwide. He has organized many international conferences and has participated in many funded programs. For the period 2013 – 2015 he was granted a fund within the framework of "Excellence II" of the General Secretary of Research and Technology and initiated the research team "Process Monitoring Group" with objective the development of research in the domain of industrial statistics.

#### Strong professional record.

During the period December 2015 to January 2019, he served as the President of the National Organization for Health Care Services Provision, a multi-billion governmental social security fund, responsible for providing quality health care services to approximately 11 million citizens while from April 2018 to January 2019, he served as the President of the European Healthcare Fraud and Corruption Network (the only European anti-fraud entity).

Additionally, from April 2019 to November 2019, he held the responsibilities of the General Manager of Bioiatriki Healthcare group of companies, which is one of the leading Healthcare Providers in Greece.

As part of his professional/research activity, in the past (from 2000 to 2015) he has collaborated with a great number of pharmaceutical companies and health related organizations providing continuous quality improvement expertise, knowledge and experience related to the design and the development of the companies' Business Intelligence systems, etc.

For his professional work, he was honored with the 2018 Best Manager Award from the European Network for Business and Industrial Statistics (ENBIS), recognizing managers who gave a significant contribution to the success of their companies by advancing the use of statistics.

## Current Academic Position

6/2010 – today: University of Piraeus, Greece.

**Organization:** *University of Piraeus is one of the oldest and one amongst the most well-known Universities in Greece. The Department of Statistics and Insurance Science aims at the theoretical and practical training of students in the fields of Statistics and Insurance Science.*

**Current Position:** *Associate Professor of Statistics.*

**Research:** *Research mainly in the fields of industrial and health statistics, resulting in more than 60 publications in scientific journals (among others, Journal of Quality Technology/2, European Journal of Operational Research/1, Statistics in Medicine/1, Biometrical Journal/1, Journal of Applied Stochastic Models in Business and Industry/1, Quality Technology and Quantitative Management/2, Journal of Multivariate Analysis/1, Annals of the Institute of Statistical Mathematics/2). His research interests are related mainly to Statistical Processes Monitoring (SPM), Multivariate SPM and integration of industrial statistics' methods in healthcare for patient and public health monitoring.*

**Teaching:** *His teaching at the University of Piraeus involves "Statistics" in the "Department of Industrial Management and Technology", "Statistics" in the "Department of Economics" and "Introduction to Statistics and Probability", "Statistical Quality Control", "Statistical Computing", "Multivariate Statistics", "Biostatistics" and "Non-Parametric Statistics" in the "Department of Statistics and Insurance Science" as well as "Business Analytics", "Biostatistics" and "Statistical Quality Control" in a post-graduate level in the "Department of Statistics and Insurance Science" and "Business Analytics" in the "Executives MBA" in the "Department of Business Administration".*

**Supervision:** *He has supervised a large number of master students (>20) and 2 post-doc researchers in topics related to industrial statistics. Currently in the process of beginning the supervision of 3 PhD candidates in Industrial Statistics using machine learning and health analytics using image analysis.*

**Administration Responsibilities:** *Member of the following department's committees: "Undergraduate Course Program", "Department's Entrance Exams", and "Web Page Content".*

## Education

**2007 Postdoctoral Fellow in Industrial Statistics**, Department of Statistics and Insurance Science, University of Piraeus.

Research Title: "Development of New Stochastic Models for Monitoring the stability of Industrial and Non-Industrial Processes in order to ensure high quality products & services".

Supervisor: Professor M.V. Koutras

Funded Research by the National State Scholarships Foundation.

**2005 PhD in Statistics and Applied Probability**, Department of Statistics and Insurance Science, University of Piraeus.

Thesis Title: "Theory of Success Runs and Applications" (written in Greek).

Supervisor: Professor M.V. Koutras

Funded Research by the National General Secretary of Research and Technology

**2000 MSc in Statistics**, Department of Statistics, Athens University of Economics and Business.

Thesis Title: "Multivariate Statistical Process Control", (written in English).

Supervisor: Professor S. Psarakis and External Examiner Professor Norman L. Johnson

**1998 BSc in Statistics and Insurance Science**, Department of Statistics and Insurance Science, University of Piraeus.

## Previous Academic Positions

**9/2007 – 8/2010:** Harokopio University of Athens, Greece.

**Organization:** Harokopio University of Athens is a public university dedicated to promoting research and learning in a small, well focused set of intellectual areas. Today Harokopio University comprises three Schools: School of Health Science and Education, School of Digital Technology, School of Environment, Geography and Applied Economics.

**Position:** Visiting Assistant Professor.

**Role:** He has served as a visiting member of the faculty of the Harokopio University of Athens, for three years, teaching "Statistics", "Probability Theory" and "Biostatistics and Epidemiology".

**9/2006 – 12/2015:** Hellenic Open University, Greece.

**Organization:** The mission of the Hellenic Open University is to provide high-quality university education via distance learning at both undergraduate and postgraduate level. The promotion of scientific research, as well as the development of the relevant technology and methodology in the area of distance learning, fall within the scope of the its objectives.

**Position:** Visiting Assistant Professor.

**Role:** He has been a member of the faculty of the Hellenic Open University for nine years, teaching "industrial statistics" in the "Quality Management and Technology" postgraduate program. This postgraduate program aims to provide participants with an integrated specialization in quality management and technology, so as to meet employment needs in industries, and to train engineers and other technicians who perform quality control in industries, health care and other services.

**9/2006 – 1/2008:** Panteion University of Athens, Greece.

**Organization:** Panteion University of Social and Political Sciences was founded in 1930 under the name of the Free School of Political Economics. It is the first school of political science. Today, Panteion University has nine academic departments covering the full range of social and political sciences.

**Position:** Visiting Assistant Professor.

**Role:** He has been a member of the faculty of the Panteion University of Athens, department of social policy, for three semesters, teaching "Statistics", "Sampling Theory" and "Statistical Packages".

**2/2006 – 8/2007:** University of Central Greece, Greece.

**Organization:** The University of Central Greece was a public university located in Central Greece, which was founded by the Greek Government in April 2003 and ceased permanently its operation in June 2013 (merged to University of Thessaly). It was comprised the Department of Regional Economic Development and the Department of Computer Science and Biomedical Informatics.

**Position:** Visiting Assistant Professor.

**Role:** He has been a member of the faculty of the University of Central Greece, department of Computer Science and Biomedical Informatics, for three semesters, teaching "Statistics", "Probability Theory" and "Biostatistics and Epidemiology".

**1/2001 – 8/2005:** University of Piraeus, Greece.

**Organization:** University of Piraeus is one of the oldest and one amongst the most well-known Universities in Greece. The Department of Statistics and Insurance Science aims at the theoretical and practical training of students in the fields of Statistics and Insurance Science.

**Position:** PhD researcher and teaching assistant.

**Role:** PhD researcher and teaching assistant. Teaching statistical computing classes to third and fourth grade university's students as well as to postgraduate students.

## Professional Experience in Top Management Positions

- **4/2019 – 11/2019:** Managing Director of Bioiatriki Healthcare Group of companies.

**Organization:** Bioiatriki group of companies is the leading healthcare provider in Greece, established in 1981, offering a wide range of high quality healthcare services. The organizational structure of the group consists of approximately 50 diagnostic centers in Greece and Cyprus (3 thousand employees), servicing more than 3 million customers on a year basis as well as 3 hospitals and 8 dental clinics.

**Role:** Leading the development of the company's short- and long-term strategy based on health analytics and real world evidence. Creating and implementing the company or organization's vision. Designing continuous quality improvement plans based on six-sigma strategies. Maintaining awareness of the competitive market landscape, expansion opportunities, industry development.

- **4/2018 – 1/2019:** President of the European Healthcare Fraud and Corruption Network.

**Organization:** European Healthcare Fraud and Corruption Network is an EU level organization having its headquarters in Brussels and the only organization dedicated to combating fraud and waste in the healthcare sector across Europe for improving healthcare systems for the benefit of patients.

**Role:** President of the EHFCN executive committee which is the managing body of the network.

- **12/2015 – 1/2019:** President of the Hellenic Organization for Health Care Services Provision.

**Organization:** This Organization is the largest public organization in Greece and one of the biggest social security funds in Europe, with more than 1500 employees, 35 thousand associate healthcare providers, 11 million users of healthcare services and an annual budget of 5.5 billion euros.

**Role:** During his appointment as the president of Hellenic Organization for Health Care Services Provision he had a binary role as the President of the board and as the CEO of the Organization. He based his long-term strategy on data, extensive statistics and real world evidence. Moreover, he initiated continuous quality improvement plans based on six-sigma strategies, he directed the processes reengineering and he guided effectively the digital transformation.

- **2/2007 – 6/2010:** Management Consultant in VIANEX Group of companies.

**Organization:** VIANEX is a leading Hellenic pharmaceutical company with exceptional manufacturing capabilities owning four modern plants, and expertise across the entire spectrum of pharmaceuticals.

**Role:** Providing statistical knowledge and expertise related to the design and the development of the company's Business Intelligence system. Specifically, he defined appropriate multivariate indices for monitoring company' sales (values and volumes) and for defining sales' targets using advanced statistical techniques (dynamic principal components, spatial statistics, etc) while he has been engaged to projects aiming at continuous production/process improvement at the production setting.

- **2/2005 – 2/2012:** Management Consultant in Metrics Ltd.

**Organization:** Metrics Ltd is a consultancy company specialized in analytics. The company assist its clients with all their digital transformations by exploiting in combination data analytics and IT.

**Role:** Providing statistical knowledge and expertise related mainly to continuous quality improvement projects as well as directions to the management for the future trends in business analytics.

- **1/2001 – 6/2010:** Freelancer Statistical Analyst.

**Organization:** Various.

**Roles:** (a) Providing industrial statistics expertise in a vast number of companies, such as BIC (a world leader in stationery, lighters and shavers). The aim of the company was to identify key factors related to the quality of razors and to find the optimum parameters during the design phase in order to provide best quality products. The problem solving process required the combined use of knowledge coming from the fields of design of experiments and multivariate statistics. (b) Providing health statistics expertise in many pharmaceutical companies such as: Lilly and hospitals such as: Eugenideio.

## Professional Experience in Committees

- **6/2016 – 1/2019:** Member of the Governmental Committee for the Development of Pharmaceutical Industry.

***Committee:** A Governmental Committee established by the Prime Minister of the country, with a scope of developing a robust, integrated growth plan of the pharmaceutical industry, in collaboration with all core ministries of the country (Ministry of Finance, Ministry of Development, Ministry of Health).*

***Role:** With the use of statistical models, he proposed effective measures for ensuring the long term viability of the Healthcare System in terms of rationalization of the total spending in the pharmaceutical industry while at the same time safeguarding total coverage of citizens' needs.*

- **6/2016 – 1/2019:** Member of the Governmental e-Health Committee of Greece.

***Committee:** The Committee's activity, is the coordination of the digital transformation of services in most aspects of Public Health.*

***Role:** Contributing in the field of Digital transformation in Public Health and designing innovative solutions based on the results of statistical analysis of public health data.*

- **2/2016 – 1/2019:** Member of the Governmental Highest National Health Council of Greece.

***Committee:** The highest decision making institution in Healthcare in Greece, having as main objective the establishment of new therapies and new diagnostics in the reimbursement system.*

***Role:** Contributing his statistical expertise and experience in public health in proposing innovative resolutions in assessing new therapies and diagnostic test to be reimbursed by the state's budget.*

- **9/2014 – today:** Member of the Assessment Committee of National Bank's "i-bank Innovation and Technology" Competition.

***Committee:** National Bank of Greece (NBG) was established in 1841. Today NBG heads one of the largest financial groups in Greece, playing a key role in the effort to support the national economy and the economic and social transformation of the country.*

***Role:** Key member of the committee in assessing innovative proposals and projects. The highly ranked projects/proposals are funded by the NBG seeds.*

## Professional Activity Highlights

During the period 12/2015 – 1/2019 as the President of the Hellenic Organization for Health Care Services Provision: **(a)** Drastically improved the financials of the Organization, decreasing arrears approximately by 90% in a three years' period (from € 2.0 billion at the beginning of year 2016 to € 0.2 billion at the end of the year 2018). The normalization of the cash flows and the rationalization of expenses rendered the Organization viable in the crucial bend of the financial crisis in Greece. **(b)** The rationalization of expenses was based on the extensive use of statistics in the Organization's management processes. Implemented six-sigma methodology in every aspect of administrative action, having as main objective the overall sustainability of the system's structure. **(c)** He was the first to propose to the Hellenic parliament to vote laws in which statistical methodology would be used in the assessment and control of healthcare services providers. The parliament voted for these laws and the use of statistics incorporated in the toolbox to combating fraud and waste in the healthcare sector, for the first time in the Hellenic State. **(d)** Introducing digital transformation in the public healthcare administration by designing and implementing innovative software systems.

The critical point of his success was the added value management he created through innovation using state of the art technology and statistics. For his success, he was honored with the 2018 Best Manager Award from the European Network for Business and Industrial Statistics and at the same period, he received public honors from the Prime Minister of the country for his contribution.

## Teaching Experience

- **6/2010 – today:** His teaching experience at the University of Piraeus involves “Statistics” in the “Department of Industrial Management and Technology”, “Statistics” in the “Department of Economics” and “Introduction to Statistics and Probability”, “Statistical Quality Control”, “Statistical Computing”, “Biostatistics” and “Non-Parametric Statistics” in the “Department of Statistics and Insurance Science” as well as “Business Analytics”, “Statistical Quality Control”, “Biostatistics and Epidemiology” and “Clinical Trials” in a post-graduate level in the “Department of Statistics and Insurance Science” and “Business Analytics” in a post-graduate level in the “Executives MBA” of the “Department of Business Administration”, receiving constantly very good evaluations by students, since 2010.
- **2/2006-6/2010:** In the past he has taught “Statistics and Probability”, “Statistics”, “Probability Theory”, “Biostatistics and Epidemiology”, “Sampling Theory” and “Statistical Packages” at the University of Athens, at Panteion University, at the University of Thessaly, at the University of Central Greece and at the Harokopio University of Athens.
- **2/2006-6/2015:** Moreover, he was a member of the faculty of the Hellenic Open University for the period from 2006 to 2015, teaching “Industrial Statistics” in the “Quality Management and Technology” postgraduate program.
- **1/2001-12/2015:** Finally, he has taught in a vast number of seminars pertaining vocational training especially in “Industrial Statistics” to engineers and to industry executives.

## Design of University Courses

- **6/2010 – today:** He has redesigned and implemented 3 courses “Statistical Quality Control”, “Biostatistics”, and “Introduction to Statistics and Probability”. In addition, he designed and implemented the course “Business Analytics” in a post-graduate level in the “Department of Business Administration” (Executive MBA), while he designed and proposed the course “Statistical Machine Learning” to be integrated in the course program of the MSc in “Applied Statistics” of the “Department of Statistics and Insurance Science”.

## Application of Innovative Teaching Methods

- He is enthusiastic for and experienced in applying innovative teaching methods. Specifically, he applied innovative teaching methods such as distance learning, learning by experience, learning by computing to department’s students. The results of the application of these experimental/innovative teaching methods on students’ performance have been published in international scientific journals (see papers [19], [23], [24], [34], [38], [42], [52], [54]).
- Since 2006, he has developed the educational portal Learn-Biostatistics.gr which is addressed to health scientists, having as main objective to introduce all prospective users in the basic concept and methodologies of Statistics and their implementation into health issues ([www.Learn-Biostatistics.gr](http://www.Learn-Biostatistics.gr)).

## Book Publishing

Co-Author of 5 books written in Greek:

- Applied Statistics in Health Sciences, Tziolas Publ., 2016 (with A. Sachlas).
- Applied Statistics in Health Sciences Using IBM Statistics, Tziolas Publ, 2016 (with A. Sachlas).
- Mathematics, Eugenides Foundation Publ., 2012 (with K. Lattas and M. Koutras).
- Informatics, Eugenides Foundation Publ., 2007 (with B. Michalakopoulos et al).
- Informatics, Ministry of Education, 2003 (with J. Apostolakis et al).

## Research Activity Highlights

### Main Research Results:

- Author of more than sixty (60) papers published/accepted/submitted in international scientific journals. Among them the following leading international journals: *Journal of Quality Technology*, *European Journal of Operational Research*, *Statistics in Medicine*, *Journal of Multivariate Analysis*, *Annals of the Institute of Statistical Mathematics*, *Biometrical Journal*. For a complete list of the published papers see the appendix (I).
- Approximately, ten (10) papers under preparation at this time point.
- His work has been presented in more than 120 national and international conferences (more than 70 in international conferences). For a complete list of presentations in international conferences see the appendix (II).
- References in his published work in the international literature exceed 1470 and his h-index is equal to 16 (Google Scholar, January 2020).
- He has reviewed papers for more than 40 international scientific journals (among others, *Technometrics*, *Journal of Quality Technology*, *Quality Technology and Quantitative Management*, *Journal of Applied Stochastic Models in Business and Industry*, *European Journal of Operational Research*, *Operational Research*, *Journal of Computational Economics and Econometrics*, *International Journal of Production Research*, *Statistics in Medicine*, *Computers & Industrial Engineering*, *Quality Engineering*) and for more than 15 conferences.
- He has served as guest editor in an issue of the international scientific journal “Quality, Technology and Quantitative Management”.
- He has cooperated with many scientists from Universities’ Departments related to Computer Science, Health Sciences and Business Administration, in multi-disciplinary research projects. These multi-disciplinary research projects concluded to a large number of publications (e.g. see papers [23], [25], [24], [35], [37], [52]).
- Since 2007, he is a member of Computational Genetics Research Group which research is focused on the analysis of biological sequences (prediction of protein structure and function from the primary sequence, development of models for analyzing biological sequences, large-scale genome analyses, development of methods for genetic association, etc).
- Since 2005, as part of his research activity he has collaborated with a great number of public and private clinics, pharmaceutical companies and scientific medical associations.

### Research Funding:

He has strong experience in obtaining external research funding. A list of public funded projects that he has been engaged as a primary researcher or as a member of the research team follows:

- **2013 – 2015:** Funding from General Secretary of Research and Technology (principal researcher of the University of Piraeus) within Excellence II framework.
- **2007 – 2008:** Funding / Scholarship from the National Scholarship Institution for post-doctorate studies (Principal researcher of the University of Piraeus).
- **2006 – 2007:** Research funding from the Ministry of Education in relation to Pythagoras II program (member of Panteion University research team).
- **2006 – 2007:** Research funding from the Ministry of Education in relation to Pythagoras II program (member of University of Piraeus research team).
- **2002 – 2005:** Funding from General Secretary of Research and Technology (principal researcher of the University of Piraeus) within the context of PENED 2001.

### Main Research Interests and Research Output:

Research Interest	Research Category	Papers (#)	Journals
The development of stochastic models for industry and especially for processes monitoring	Industrial Statistics	P/A: 21 S/UP: 2	Journal of Quality Technology, Quality and Reliability Engineering International, European Journal of Operation Research, etc.
Design of medical research / Analysis of medical data	Health Statistics	P/A: 13 S/UP: 0	Public Health, Molecular Diagnosis & Therapy, Infectious Diseases, etc.
Developing the learning of statistics / Using innovative methods in teaching statistics / Education	Teaching Statistics	P/A: 10 S/UP: 0	Journal of Statistics Education, Teaching Statistics, Journal of Computer Assisted Learning, Education and Information Technologies, etc.
Statistical models for monitoring clinical trials and surveilling public health by integrating industrial statistics' methodology in health.	Health Statistics	P/A: 5 S/UP: 5	Statistics in Medicine, Biometrical Journal, Statistics in Biosciences, Statistical Methods and Applications, etc.
Distribution Theory of Runs, Scans and Patterns / Statistics	Statistics	P/A: 4 S/UP: 0	Annals of the Institute of Statistical Mathematics, Communications in Statistics – Theory and Methods, etc.
Design of surveys / Analysis of business data	Industrial Statistics	P/A: 5 S/UP: 1	Applied Stochastic Models in Business and Industry, Journal of Cleaner Production, etc.
Methods for Medical Fraud Assessment / Real Worlds Evidence / Health Technology Assessment / Health Analytics using Machine Learning on text and images data.	Health Statistics	P/A: 0 S/UP: 4	----

P/A: Published or Accepted Paper. S/UP: Submitted or Under Preparation Paper

### Supervision of Students:

- **6/2010 – today:** He is very experienced in the successful supervision of students. Specifically, he has supervised a large number of master students (>20) and 2 post-doc researchers in topics related to industrial statistics. The output of the research of the 2 post-doc researchers under his supervision was in the domain of industrial statistics (see papers [6], [7], [9], [11], [12], [13]). At least 5 of his master students (20%) have published the results of their MSc thesis under his supervision (see papers [3], [5], [14], [25], [35], [13]).
- **1/2020 – today:** *Currently in the process of beginning the supervision of 3 PhD candidates in Industrial Statistics using machine learning and health analytics using image analysis.*

#### Participation in International Conferences' Committees:

- Head of the Organizing Committee in the following International Scientific Conferences:
  - (a) "International Symposium on Statistical Process Monitoring" (ISSPM 2013),
  - (b) "Applied Stochastic Models and Data Analysis" (ASMDA 2015),
  - (c) "International Society for Business and Industrial Statistics"" (ISBIS 2018).
- Member of the Organizing or of the Scientific Committee in more than 20 scientific conferences (ISSPM 2015, ISSPM 2017, ISSPM 2019, ASMDA 2017, ASMDA 2019, etc).

#### Membership in International Associations:

- Elected Member of the International Statistical Institute,
- Elected member of the board of Directors of the National Statistical Institute,
- Member of the International Society for Business and Industrial Statistics,
- Member of the American Society for Quality,
- Member of the European Network for Business and Industrial Statistics,
- Member of the National Computer Society,
- Member of the Economic Chamber of Greece.

#### Main Programming Languages / Statistical Packages:

Mathematica Programming	SPSS / Use & Programming	Minitab / Use & Programming
C Programming	R / Programming	Statgraphics / Use

#### Languages:

- Speaking and writing Greek as a native speaker.
- Speaking and writing English fluently.

#### Other Certifications:

- Management of Research, Technology and Innovation, from National Technological University of Athens, Greece.
- Marketing, Management and Communications, from Private Center for Professional Education in Athens, Greece.
- Techniques for Merging Small and Medium-Sized Enterprises, from Private Center for Professional Education in Athens, Greece.
- Computerized Accounting, from Private Center for Professional Education in Athens, Greece.

## Appendix I: Complete List of Published/Accepted Papers

1. Sachlas, S. Bersimis and S. Psarakis (2019). Risk-adjusted Control Charts: Theory and Applications, *Statistics in Biosciences*, 11 (3), 630–658. Citations: 0.
2. S. Bersimis, A. Sachlas and M.V. Koutras (2019). Health Monitoring Techniques Through Scan Statistics, Invited Contribution to the *Handbook of Scan Statistics*, Accepted for Publication. Citations: 0.
3. G. Bartzis and S. Bersimis (2019). Performance Comparisons of Bivariate Dispersion Control Charts, *Communications in Statistics – Case Studies and Data Analysis*, <https://doi.org/10.1080/23737484.2019.1684853>. Citations: 0.
4. S. Bersimis, A.Rakitzis and M.V. Koutras (2019). Run and Scan Rules in Statistical Process Monitoring, Invited Contribution to the *Handbook of Scan Statistics*, Accepted for Publication. Citations: 0.
5. F. Zachariou, I. Voulgari, E. Tsami, S. Bersimis (2019). Exploring the Attitudes of Secondary Education Students on Environmental Education in Relation to their Perceptions on Environmental Problems: The Case of the Prefecture of Viotia, *Interdisciplinary Journal of Environmental and Science Education*, <https://doi.org/10.29333/ijese/6442>. Citations: 0.
6. S. Bersimis and A. Sachlas (2019). An One-Sided Procedure for Monitoring Variables Defined on Contingency Tables, *Journal of Quality Technology*, 51 (2), 125-142. Citations: 0.
7. S. Bersimis, A. Sgora, and S. Psarakis (2018). The Application of Multivariate Statistical Process Monitoring in Non-Industrial Processes, *Quality Technology & Quantitative Management*, 15 (4), 526-549. Citations: 1.
8. S. Bersimis, A. Sachlas and T. Papaioannou (2018). Monitoring Phase II Comparative Clinical Trials with Two Endpoints and Penalty for Adverse Events, *Methodology and Computing in Applied Probability*, 20 (2), 719-738. Citations: 0.
9. S. Bersimis, A. Sachlas and S. Chakraborti (2018). A Sequential Test for Assessing Observerd Agreement Between Raters, *Biometrical Journal*, 60 (1), 128–145. Citations: 0.
10. S. Bersimis and K. Triantafyllopoulos (2018). Dynamic Non-Parametric Monitoring of Air Pollution, *Methodology and Computing in Applied Probability*, <https://doi.org/10.1007/s11009-018-9661-0>. Citations: 0.
11. S. Bersimis, A. Sachlas and R. Sparks (2017). Performance Monitoring and Competence Assessment in Health Services, *Methodology and Computing in Applied Probability*, 19 (4), 1169-1190. Citations: 2.
12. S. Bersimis, A. Sachlas and P. Castagliola (2017). Controlling Bivariate Categorical Processes Using Scan Rules, *Methodology and Computing in Applied Probability*, 19 (4), 1135-1149. Citations: 1.
13. S. Bersimis, A. Sgora and S. Psarakis (2017). Methods for Interpreting the Out-of-Control Signal of Multivariate Control Charts: A Comparison Study, *Quality and Reliability Engineering International*, 33 (8), 2295–2326. Citations: 3.
14. F. Zachariou, E. Tsami, C. Chalkias, S. Bersimis (2017). Teachers' Attitudes Towards the Environment and Environmental Education: An Empirical Study, *International Journal of Environmental and Science Education*, Accepted for Publication. Citations: 3.
15. Agapitou, D. Georgakelos and S. Bersimis (2017). Appraisal of CRM implementation as business strategy option in times of recession: The role of perceived value and benefits, *International Journal of Business Science & Applied Management*, 12 (2), 18-31. Citations: 3.
16. S. Bersimis and P. Economou (2017). The use of the length-biased distribution in statistical monitoring, *Australian & New Zealand Journal of Statistics*, 59 (2), 155-167. Citations: 1.
17. S. Bersimis, A. Sachlas and P. Baggos (2017). Discriminating Membrane Proteins Using the Joint Distribution of Length Sums of Success and Failure Runs, *Statistical Methods and Applications*, 26 (2), 251-272. Citations: 0.
18. S. Bersimis, S. Degiannakis and D. Georgakellos (2017). Real-time monitoring of carbon monoxide using value-at-risk measure and control charting, *Journal of Applied Statistics*, 44(1), 89-108. Citations: 2.
19. T. Karvounidis, K. Chimos, S. Bersimis, C. Douligeris (2017). Factors, Issues and Interdependencies in the Incorporation of a Web 2.0 Based Learning Environment in Higher Education, *Education and Information Technologies*, 12 (7). Citations: 3.
20. S. Bersimis and K. Triantafyllopoulos (2016). Phase II Control Charts for Autocorrelated Processes, *Quality Technology & Quantitative Management*, 13 (1), 88-108. Citations: 8.
21. V. Kordinas, G. Tspirpanlis, C. Nicolaou, M. Zoga, A. Ioannidis, V. Ioannidou, S. Bersimis, C. Petrihou, L. Savva, N. Legakis, S. Chatzipanagiotou (2015). Is there a connection between Inflammation, telomerase

- activity and transcriptional status of telomerase reverse transcriptase in renal failure?, *Cellular & Molecular Biology Letters*, 20 (2), 222-236. Citations: 3.
22. S. Bersimis, A. Sachlas and T. Papaioannou (2015). Flexible Designs for Phase II Comparative Clinical Trials Involving Two Response Variables, *Statistics in Medicine*, 34 (2), 197-214. Citations: 6.
  23. T. Karvounidis, K. Chimos, S. Bersimis, C. Douligeris (2015). i-SERF: An integrated Self-Evaluated and Regulated Framework for Deploying Web 2.0 Technologies in the Educational Process, *Electronic Journal of e-Learning*, 13 (5). Citations: 4.
  24. T. Karvounidis, K. Chimos, S. Bersimis, C. Douligeris (2014). Evaluating Web 2.0 technologies in higher education using students' perceptions and performance, *Journal of Computer Assisted Learning*, 30 (6), 577-596. Citations: 47.
  25. E. Gklavopoulos, S. Bersimis, D. Georgakellos and M. Sfakianakis (2014). Investigating the factors affecting companies' attitudes towards CSR and CER during the fiscal crisis in Greece, *Journal of Environmental Planning and Management*, 57 (11), 1612-1641. Citations: 12.
  26. Zegaer, A. Ioannidis, G. Babis, V. Ioannidou, A. Kossyvakis, S. Bersimis, J. Papaparaskevas, E. Petinaki, P. Pliatsika, S. Chatzipanagiotou (2014). Detection of bacteria bearing resistant biofilm forms, by using the universal and specific PCR is still unhelpful in the diagnosis of periprosthetic joint infections (PJI), *Infectious Diseases*, 1:30. doi:10.3389/fmed.2014.00030. Citations: 18.
  27. S. Bersimis, C. Chalkias and T. Anthopoulou (2014). Detecting and Interpreting Clusters of Economic Activity in Rural Areas Using Scan Statistic and LISA Under a Unified Framework, *Applied Stochastic Models in Business and Industry*, 30 (5), 573–587. Citations: 5.
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54. Ghinis, T. Chadjipantelis and S. Bersimis (2005). Experiences From Teaching Statistics Using Directed Projects In Greek Elementary School, *Teaching Statistics*, 27 (1), 2-7. Citations: 6.
55. A. Vassiliou, D.G. Tambouratzis, M.V. Koutras and S. Bersimis (2004). A New Similarity Measure and Its Use in Determining the Number of Clusters in a Multivariate Data Set, *Communications in Statistics – Theory and Methods*, 33 (7), 1643-1666. Citations: 4.
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## Appendix II: Complete List of Presentations in International Conferences

1. S. Bersimis. "Using Data Analytics for Fraud Detection in Health Care: Applications and Some Results". Y-ISBIS (International Symposium on Business and Industrial Statistics) 2019, Istanbul, Turkey, 2019 (Keynote Talk).
2. S. Bersimis. "Integrating Process Monitoring Techniques and Scan Statistics for Monitoring Public Health". ISI World Congress, Kuala Lumpur, Malaysia, 2019 (Invited Talk).
3. S. Bersimis. "Public Health Surveillance Based on Statistical Process Monitoring", 6th International Symposium on Statistical Process Control, Tunis, Tunisia, 2019 (Invited Talk).
4. S. Bersimis. "Statistical Tools for Advanced Management ". ENBIS-2018 Conference, Nancy, France, 2018 (Invited Talk).
5. S. Bersimis, A. Sachlas and P. Economou. "Public Health Monitoring Using Scans and Control Charts". International Symposium on Business and Industrial Statistics 2018, Piraeus, Greece, 2018 (Invited Talk).
6. P. Economou, S. Bersimis, and A. Sachlas. "Simultaneous Monitoring the Number and the Spatial Distribution of Disease Events". International Symposium on Business and Industrial Statistics 2018, Piraeus, Greece, 2018 (Invited Talk - Presented by co-author).
7. A. Sachlas, S. Bersimis and S. Psarakis. Multivariate Risk-Adjusted Control Charts. 2018 International Symposium on Business and Industrial Statistics, Piraeus, Greece, 2018 (Invited Talk - Presented by co-author).
8. T. Paschalis, C. Georgakopoulou, S. Goulas, A. Sachlas and S. Bersimis. "Composite quality indicators for assessing healthcare provision". International Symposium on Business and Industrial Statistics 2018, Piraeus, Greece, 2018 (Invited Talk - Presented by co-author).
9. C. Georgakopoulou, T. Paschalis, S. Goulas, S. Bersimis, A. Sachlas and V. Plagiannakos. "Assessing the quality of health services using composite indicators". International Symposium on Business and Industrial Statistics 2018, Piraeus, Greece, 2018 (Invited Talk - Presented by co-author).
10. S. Goulas, T. Paschalis, C. Georgakopoulou, S. Bersimis, A. Sachlas and V. Plagiannakos. "Applications of composite indicators for the longitudinal assessment of the quality of health services". International Symposium on Business and Industrial Statistics 2018, Piraeus, Greece, 2018 (Invited Talk - Presented by co-author).
11. S. Tasoulis, T. Paschalis, C. Georgakopoulou, S. Goulas, S. Bersimis, A. Sachlas and V. Plagiannakos. "Machine learning techniques for the analysis of composite quality indicators". International Symposium on Business and Industrial Statistics, Piraeus, Greece, 2018 (Invited Talk - Presented by co-author).
12. S. Bersimis, A. Sachlas, and P. Economou. "A New Procedure for Public Health Monitoring", 9th International Workshop in Applied Probability, Budapest, Hungary, 2018 (Invited Talk).
13. P. Economou, S. Bersimis, and A. Sachlas. "Monitoring the Number and the Spatial Distribution of Disease Events Using Convex Hulls and Control Charting", 5th Stochastic Modeling Techniques and Data Analysis International Conference, Chania, Greece, 2018 (Invited Talk - Presented by co-author).
14. S. Psarakis, A. Sachlas, and S. Bersimis. "Risk-Adjusted Control Charts: A Review", 5th Stochastic Modeling Techniques and Data Analysis International Conference, Chania, Greece, 2018 (Invited Talk - Presented by co-author).
15. S. Bersimis, A. Sachlas, and P. Economou. "A New Technique for Monitoring Public Health Combining Scan Statistics and Control Charts", 5th Stochastic Modeling Techniques and Data Analysis International Conference, Chania, Greece, 2018 (Invited Talk).
16. S. Bersimis. "Quality in Health" (moderator), Stu Hunder Conference 2018, Roanoke, USA, 2018 (Invited).
17. A. Sachlas, P. Economou and S. Bersimis. "Monitoring the number of disease events and their distribution using convex hulls", 17th Conference of the European Network for Business and Industrial Statistics, Naples, Italy, 2017.
18. A. Sachlas, S. Psarakis and S. Bersimis. "A Multivariate Risk-Adjusted EWMA Control Chart", 17th Conference of the European Network for Business and Industrial Statistics, Naples, Italy, 2017 (Presented by co-author).
19. A. Sachlas, S. Psarakis and S. Bersimis. "Results on Multivariate Risk-Adjusted Survival Time CUSUM and EWMA Control Charts", 17th conference of ASMDA international society, London, UK, 2017 (Invited Talk - Presented by co-author).

20. C. Agapitou, S. Bersimis, D. Georgakellos, "CRM Implementation and Performance Model: The case of Greek Companies" Perceptions during the fiscal crisis", EMAC 46th Annual Conference, Groningen, Holland, 2017, (Presented by co-author).
21. A. Sachlas, P. Economou and S. Bersimis. "A new biosurveillance method based on convex hulls", 9th EMR-IBS and Italian Region conference, Thessaloniki, Greece, 2017 (Invited Talk - Presented by co-author).
22. S. Bersimis. "The use of stochastic models in healthcare provision", ENBIS-2016 Conference, Sheffield, UK, 2016 (Invited Talk).
23. S. Bersimis. "Performance Monitoring and Competence Assessment in Health Services", ISBIS-2016 Conference, Barcelona, Spain, 2016 (Invited Talk).
24. P. Economou and S. Bersimis. "Control charts and differentiation of sampling schemes among Phase I and Phase II", INCPAA-2016 Conference, La Rochelle, France, 2016 (Presented by co-author).
25. A. Sgora and S. Bersimis. "Health-Care and Public Health Monitoring using MSPC methods", 1st International Conference on Research in Health Care, Athens, Greece, 2015 (Invited Talk - Presented by co-author)
26. A. Sachlas and S. Bersimis. "A Bivariate Technique for Monitoring Comparative Phase II Clinical Trials", 1st International Conference on Research in Health Care, Athens, Greece, 2015 (Invited Talk - Presented by co-author).
27. A. Sachlas and S. Bersimis. "Multiattribute Comparative Process Monitoring Techniques", 16th conference of ASMDA international society, Piraeus, Greece, 2015 (Invited Talk - Presented by co-author).
28. A. Sgora, S. Psarakis and S. Bersimis. "Interpretation of out-of-control signals in multivariate control charts: The neural-network approach", 16th conference of ASMDA international society, Piraeus, Greece, 2015 (Invited Talk - Presented by co-author).
29. S. Bersimis and P. Economou. "Control Charts based on Weighted Distributions", 16th conference of ASMDA international society, Piraeus, Greece, 2015.
30. A. Sgora, S. Psarakis and S. Bersimis. "Methods for interpreting the out-of-control signal of multivariate control chart: A comparison study and a Meta-Method", The 4th International Symposium on Statistical Process Monitoring, Padua, Italy, 2015 (Invited Talk).
31. S. Bersimis and A. Sachlas. "Monitoring Multivariate Non-Industrial Processes", 3rd Stochastic Modeling Techniques and Data Analysis International Conference (SMTDA2014), Lisboa, Portugal, 2014 (Invited Talk).
32. K. Triantafyllopoulos and S. Bersimis. "Multivariate Control Charts Based on Bayes Factors", 3rd Stochastic Modeling Techniques and Data Analysis International Conference (SMTDA2014), Lisboa, Portugal, 2014 (Invited Talk - Presented by co-author).
33. S. Bersimis and P. Castagliola. "Controlling Bivariate Processes using Scan Rules", 7th International Workshop on Applied Probability (IWAP 2014), Antalya, Turkey, 2014 (Invited Talk).
34. A. Sachlas and S. Bersimis. "A Technique to Simultaneous Monitor Bivariate Random Variables Defined on Contingency Tables", 7th International Conference of the ERCIM WG on Computational and Methodological Statistics, Pisa, Italy, 2014 (Presented by co-author).
35. S. Bersimis and A. Sachlas. "Monitoring Side Effects in Phase II Comparative Clinical Trials", 7th International Conference of the ERCIM WG on Computational and Methodological Statistics, 2014.
36. S. Bersimis and A. Sachlas. "Monitoring Bivariate Random Variables Defined on Contingency Tables", 3rd International Conference on the Interface between Statistics and Engineering, 2014 (Invited Talk).
37. T. Karvounidis, K. Chimos, M. Bassios, S. Bersimis, C. Douligeris. "UniSuite: An Innovative Integrated Suite for Delivering Synchronous and Asynchronous online Education", IEEE Global Engineering Education Conference 2013, Berlin, Germany, 2013 (Presented by co-author).
38. S. Bersimis, T. Papaioannou and A. Sachlas. "Some New Stopping Rules for Multi-Stage Phase II Comparative Clinical Trials Involving Two Dependent Response Variables", 15th Applied Stochastic Models and Data Analysis International Conference, Barcelona, Spain, 2013 (Invited Talk).
39. S. Bersimis and P. Castagliola. "Monitoring High Quality Bivariate Processes", 3rd International Symposium on Statistical Process Control, Piraeus, Greece, 2013 (Invited Talk).
40. S. Bersimis. "Advanced Stochastic Models of Multivariate Statistical Process Control for Non-Industrial Processes", 6th International Conference of the ERCIM WG on Computational and Methodological Statistics (ERCIM 2013), London, UK, 2013 (Invited Talk).

41. T. Karvounidis, K. Chimos, S. Bersimis, C. Douligeris. "An Integrated Self-Evaluated Framework for Embedding Web 2.0 Technologies in the Educational Process", IEEE Global Engineering Education Conference 2012, Marrakesh, Morocco, 2012 (Presented by co-author).
42. E. Andreadis, A. Tsakanikas, E. Angelopoulos, S. Bersimis, G. Agaliotis and G. Mousoulis, "The Vascular Protective Effect of Aliskiren or Ramipril Based Treatment in Hypertension", 22nd European Meeting on Hypertension and Cardiovascular Prevention in London, 2012 (Presented by co-author).
43. S. Bersimis. "Multivariate SPC with emphasis on Multi-Attribute Processes", University of Sheffield Series of Lectures, Sheffield, UK, 2012 (Invited Talk).
44. A. Sachlas, S. Bersimis and T. Papaioannou. "Stopping Rules for Phase II Clinical Trials Based on Waiting Time Distributions", 2nd Stochastic Modelling Techniques and Data Analysis International Conference, Crete, Greece, 2012 (Invited Talk - Presented by co-author).
45. S. Bersimis. "On-Line Air Quality Surveillance", ISBIS-2012 Conference, Bangkok, Thailand, 2012 (Invited Talk).
46. S. Bersimis and P.E. Maravelakis. "Process Monitoring of Bivariate Poisson Data", 2nd International Symposium on Statistical Process Control, Rio, Brazil, 2011 (Invited Talk).
47. S. Bersimis and K. Triantafyllopoulos. "On-Line Spatiotemporal Methods of Air Quality Surveillance for Safeguarding Community Health", ISBIS-2010 Conference, Portoroz (Portorose), Slovenia, 2010 (Invited Talk).
48. S. Bersimis, M.V. Koutras and P.E. Maravelakis. "A Compound Rule for Monitoring and Controlling High Quality Processes", 28th European Meeting of Statisticians 2010 Conference, Piraeus, Greece, 2010.
49. S. Bersimis and P.E. Maravelakis. "Process Monitoring of Bivariate Poisson Data", 28th European Meeting of Statisticians 2010 Conference, Piraeus, Greece, 2010 (Poster).
50. S. Bersimis and P.G. Bagos. "The Use of the Joint Distribution of Sums of Success and Failure Runs for Discriminating Membrane Proteins", 7th International Meeting on computational Intelligence Methods for Bioinformatics and Biostatistics, Palermo, Italy, 2010 (Invited Talk).
51. S. Bersimis. "Models for Controlling Multi-attribute Processes", 1st International Symposium on Statistical Process Control, Nantes, France, 2009 (Invited Talk).
52. S. Bersimis. "Multivariate SPC with emphasis in multi-attribute processes", ISBIS-2009 Conference (Satellite meeting to the ISI 57th Session in Durban), Stellenbosch, Republic of South Africa, 2009 (Invited Talk).
53. S. Bersimis, M.V. Koutras and G. Papadopoulos. "The Distribution of the Waiting Time until the First Almost Perfect Run's Occurrence", 6th International Workshop in Applied Probability, Compiègne, France, 2008. Included in Conference's Proceedings (Invited Talk).
54. A. Kallioras, S. Bersimis, and V.P. Plagianakos. "Interpreting Shewhart Type Control Chart Signals Using Pattern Based Rules and Artificial Intelligence Techniques", 8th Conference of the European Network for Business and Industrial Statistics, Athens, Greece, 2008 (Presented by co-author).
55. S. Bersimis and P. Baggos. "Discriminating and Clustering Membrane Proteins Using the Exact Distribution of Various Runs-Based Rules", 28th Annual Conference of the International Society for Clinical Biostatistics, Alexandroupolis, Greece, 2007.
56. A. Sachlas, T. Papaioannou and S. Bersimis. "Controlling Non-Normal Multivariate Processes using Information Theoretic Control Charts", 8th Hellenic-European Conference on Computer Mathematics and its Applications, Athens, Greece, 2007 (Presented by co-author).
57. PE Maravelakis, S. Bersimis and M.V. Koutras. "A Control Chart for High Quality Processes with a FIR Property Based on the Run Length of Conforming Products", 7th Conference of the European Network for Business and Industrial Statistics, Dortmund, Germany, 2007 (Presented by co-author).
58. N. Sifakis, J. Papatriantafyllou, B. Valotassiou, S. Bersimis, C., Boulas, C. Karageorgiou, P. Georgoulas, C. Zerva. "Correlation of rCBF Abnormalities and Neuropsychiatric Symptoms in Degenerative Dementias", Annual Congress of the EANM 2007, Copenhagen, Denmark, 2007 (Presented by co-author).
59. J. Papatriantafyllou MD, N. Sifakis MD, V. Valotasiou MD, S. Bersimis, C. Boulas MD, N. Tsinia, P. Zikos MD, T. Visviki, C.E. Karageorgiou MD. "Anatomical regions mediating neuro-psychiatric symptoms in dementia", 5th International Conference on Frontotemporal Dementia, San Francisco, USA, 2006 (Presented by co-author).

60. S. Bersimis and M.V. Koutras. "Almost Perfect Runs with Applications in Statistical Process Control", 6th Conference of the European Network for Business and Industrial Statistics, Wroclaw, Poland, 2006.
61. P.E. Maravelakis, S. Bersimis and M.V. Koutras. "Controlling the Quality of Bivariate Processes with Grouped Observations", 6th Conference of the European Network for Business and Industrial Statistics, Wroclaw, Poland, 2006 (Presented by co-author).
62. I. Varlamis and S. Bersimis. "Providing shortcuts to the learning process", International Conference of Computational Methods in Sciences and Engineering, Chania, Greece, 2006 (Presented by co-author).
63. M.V. Koutras, D.L. Antzoulakos and S. Bersimis. "Bivariate Markov Chain Embeddable Variables of Polynomial Type and Applications", Conference of ASA, U.S.A., 2005 (Presented by co-author).
64. S. Bersimis, N. Balakrishnan and M.V. Koutras. "Waiting until the first occurrence of patterns in a bivariate sequence of trinomial trials", 5th Conference of the European Network for Business and Industrial Statistics, Newcastle, England, 2005.
65. A. Rakitzis and S. Bersimis. "Detection of Non-Random Patterns in Shewhart Control Charts: Methods and Applications", 7th Hellenic-European Conference on Computer Mathematics and its Applications, Athens, Greece, 2005 (Presented by co-author).
66. P.E. Maravelakis, S. Bersimis and M.V. Koutras. "The use of control charts for monitoring multivariate processes with grouped observations", 7th Hellenic-European Conference on Computer Mathematics and its Applications, Athens, Greece, 2005 (Presented by co-author).
67. S. Bersimis, J. Panaretos and S. Psarakis. "Multivariate Statistical Process Control and the Problem of Interpretation: A Short Overview and Some Applications in Industry", 7th Hellenic-European Conference on Computer Mathematics and its Applications, Athens, Greece, 2005.
68. S. Bersimis, D.L. Antzoulakos and M.V. Koutras. "Bivariate Markov Chain Embeddable Variables of Polynomial Type", 2nd International Workshop in Applied Probability, Piraeus, Greece, 2004.
69. M.V. Koutras, S. Bersimis and D.L. Antzoulakos. "Improving the Performance of the Chi-Square Control Chart Via Runs Rules", 2nd International Workshop in Applied Probability, Piraeus, Greece, 2004 (Presented by co-author).
70. D.L. Antzoulakos, S. Bersimis and M.V. Koutras. "Markov Chain Embeddable Variables of Polynomial Type with Applications", 2nd International Workshop in Applied Probability, Piraeus, Greece, 2004 (Presented by co-author).
71. T. Chadjipantelis, D. Ghinis and S. Bersimis. "Directed Projects, an Effective Way of the Educational Approach Statistics in School", 3rd Mediterranean Conference on Mathematical Education, Athens, Greece, 2003 (Presented by co-author).
72. M.V. Koutras, S. Bersimis and D.L. Antzoulakos. "On the Distribution of the Total Number of Run Lengths", 3rd International Conference on Mathematical Methods in Reliability, Trondheim, Norway, 2002 (Presented by co-author).
73. S. Bersimis and S. Psarakis. "Multivariate Statistical Process Control", 5th Hellenic-European Conference on Computer Mathematics and its Applications, Athens, Greece, 2001.