

Curriculum Vitae

George V. Moustakides

Address

Department of Electrical and Computer Engineering, University of Patras,
26500 Rio, Greece

Telephone: +30 2610 996405 (office)

E-mail: moustaki@upatras.gr

Personal Website: <http://www.ssp.ece.upatras.gr/moustakides/>

Education

PhD and MSc in Electrical Engineering and Computer Science (1980 - 1983),
Princeton University, Department of Electrical Engineering and Computer Science.
Thesis Title: The Representation of Bivariate Densities with Applications in Detection and Estimation.
Thesis Advisor: John B. Thomas.

MSE in Systems Engineering (1979 - 1980),
University of Pennsylvania, Department of Systems Engineering.
Thesis Title: Robust Wiener Filters for Imprecise Second Order Statistics.
Thesis Advisor: Saleem Kassam.

Diploma in Electrical and Mechanical Engineering (1973 - 1978),
National Technical University of Athens, Department of Electrical & Mechanical Engineering.
Thesis Title: Subharmonic oscillations in the systems $\ddot{x}+g(x,\dot{x},t)=0$.
Thesis Advisor: John E. Diamessis.

Main Academic Positions

Emeritus Professor (2023 - Today), Department of Electrical & Computer Engineering, University of Patras, Patras, Greece.

Professor (2007 - 2022), Department of Electrical & Computer Engineering, University of Patras, Patras, Greece.

Long-Term Visiting Professor (2017 - 2019), Member of the Graduate School, Department of Computer Science, Rutgers University, Piscataway, NJ, USA.

Professor (2002 - 2007), Department of Computer & Communication Engineering, University of Thessaly, Volos, Greece.

Senior Researcher (2001 - 2004), Directeur de Recherche, tenured position, Institut National de Recherche en Informatique et en Automatique - INRIA, France.

Professor (1996 - 2002), Department of Computer Engineering and Informatics, University of Patras, Patras, Greece.

Associate Professor (1991 - 1996), Department of Computer Engineering and Informatics, University of Patras, Patras, Greece.

Researcher (1988 - 1991), Computer Technology Institute of Patras, Patras, Greece.

Military Service (1986 - 1987), Greek Air Force. (Not an academic position, but a true "Academic" Experience).

Junior Researcher (1983 - 1986), Institut National de Recherche en Informatique et en Automatique - INRIA, France.

Research and Teaching Assistant (1980 - 1983), Department of Electrical Engineering and Computer Science, Princeton University, Princeton, USA.

Research Assistant (1979 - 1980), Department of Systems Engineering, Moore School of Electrical Engineering, University of Pennsylvania, Philadelphia, USA.

Temporary Academic Positions

Adjunct Lecturer (8/2023 - 12/2023), Department of Electrical & Computer Engineering, University of Illinois, Urbana-Champaign, USA.

Visiting Professor (2/2022 - 6/2022), Department of Signal Processing and Acoustics, School of Electrical Engineering, Aalto University, Espoo, Finland.

Visiting Professor (9/2016 - 1/2017), Department of Computer Science, also **Part Time Lecturer**, Department of Electrical and Computer Engineering, Rutgers University, Piscataway, NJ, USA.

Visiting Professor (9/2015 - 12/2015), Department of Management Science & Information Systems, Business School, Rutgers University, Piscataway, NJ, USA.

Long-Term Distinguished Lecturer (9/2014 - 12/2014), Coordinated Science Lab, University of Illinois, Urbana-Champaign, IL, USA.

Visiting Professor (9/2013 - 2/2014), Department of Computer Science, Rutgers University, New Brunswick, NJ, USA.

Adjunct Professor and Visiting Researcher (9/2012 - 1/2013), Department of Electrical Engineering, Columbia University, New York, NY, USA.

Visiting Researcher (9/2011 - 1/2012), Department of Electrical Engineering, Columbia University, New York, NY, USA.

Adjunct Professor and Visiting Researcher (9/2009 - 1/2010), Department of Electrical Engineering, Columbia University, New York, NY, USA.

Research Scholar (10/2005 - 2/2006), Institute for Systems Research (ISR), University of Maryland, College Park, MA, USA.

Research Scholar (9/2000 - 2/2001), Institut National de Recherche en Informatique et en Automatique - INRIA, France.

Short-Term Visits/Appointments (support by the hosting institutes)

Université de Toulouse II, Jean Jaurès (04/24/2024 - 05/01/2024), Institut de Mathématiques de Toulouse, Toulouse, France. (Invited by Prof. S. Mercier).

Rutgers University (12/03/2016 - 12/16/2016), Coadjutant, Statistics department, Piscataway, NJ, USA. (Invited by Prof. P. Li).

University of Minnesota (1/5/2015 - 1/26/2015), Digital Technology Center, Minneapolis, MN, USA. (Invited by Prof. G. Giannakis).

University of Southern California (1/9/2011 - 2/28/2011), Department of Mathematics, Los Angeles, CA, USA. (Invited by Prof. A. Tartakovsky).

Bilkent University (9/1/2010 - 9/21/2010), Department of Industrial Engineering, Ankara, Turkey. (Invited by Prof. S. Dayanik).

University of Southern California (1/10/2010 - 1/16/2010), Department of Mathematics, Los Angeles, CA, USA. (Invited by Prof. A. Tartakovsky).

Georgia Institute of Technology (7/12/2009 - 7/31/2009), School of Industrial and Systems Engineering, Atlanta, GA, USA. (Invited by Prof. Y. Mei).

Université de Technologie de Troyes (6/8/2009 - 6/14/2009), Troyes, France. (Invited by Prof. I. Nikiforov).

University of Southern California (1/10/2009 - 1/25/2009), Department of Mathematics, Los Angeles, CA, USA. (Invited by Prof. A. Tartakovsky).

Georgia Institute of Technology (7/28/2008 - 8/30/2008), School of Industrial and Systems Engineering, Atlanta, GA, USA. (Invited by Prof. Y. Mei).

Université de Technologie de Troyes (4/28/2008 - 5/7/2008), Laboratoire de Modélisation et de Sécurité de Systèmes, Troyes, France. (Invited by Prof. I. Nikiforov).

University of Southern California (2/5/2008 - 2/27/2008), Department of Mathematics, Los Angeles, CA, USA. (Invited by Prof. A. Tartakovsky).

Columbia University (5/15/2007 - 6/30/2007), Department of Statistics, New York, NY, USA. (Invited by the department to teach a summer course in Sequential Change detection).

Columbia University (3/31/2003 - 4/14/2003), Department of Statistics, New York, NY, USA. (Invited by Prof. Karatzas).

University of Pennsylvania (8/1/1999 - 8/31/1999), Department of Electrical Engineering, Philadelphia, PA, USA. (Invited by Prof. S. Kassam).

Princeton University (8/1/1998 - 8/31/1998), Department of Electrical Engineering, Princeton, NJ, USA. (Invited by Prof. H.V. Poor).

Sabbaticals (support by the Greek Ministry of Education)

Columbia University (9/2011 - 1/2012), Department of Electrical Engineering, New York, NY, USA. (Invited by Prof. X. Wang).

Columbia University (7/19/2010 - 8/20/2010), Department of Electrical Engineering, New York, NY, USA. (Invited by Prof. X. Wang).

University of Pennsylvania (2/2000 - 7/2000), Department of Computer and Information Science, Philadelphia, PA, USA. (Invited by Prof. D. Metaxas).

Princeton University (10/1996 - 6/1997), Department of Electrical Engineering, Princeton, NJ, USA. (Invited by Prof. H.V. Poor).

R & D Projects

Quickest change detection techniques with signal processing applications (2015 - 2019, PI). Department of Computer Science, Rutgers University, USA. Financed by the National Science Foundation. Rutgers Budget: 467,186\$ (Total Budget: 1,121,161\$). Collaborative grant with Coordinated Science Lab, University of Illinois at Urbana-Champaign.

Event-triggered sampling: Application to decentralized detection and estimation (2011 - 2015, co-PI). Department of Electrical Engineering, Columbia University, USA. Financed by the National Science Foundation. Budget: 952,747\$.

Adaptive signal processing algorithms for digital hearing aids (2008 - 2016, PI). Department of Electrical and Computer Engineering, University of Patras, Greece. Financed by Soundworld Solutions, USA. Budget: 20,000€/year.

Robust rapid change-point detection in multi-sensor data fusion and behavior research (2008 - 2010, co-PI). Georgia Institute of Technology, School of Industrial and Systems Engineering, Atlanta, GA, USA. Financed by Air Force Office of Scientific Research, AFOSR. Budget: 200,000\$.

BER estimation in optical communication systems (2002 - 2003, PI). Institut National de Recherche en Informatique et en Automatique - INRIA, Rennes, France. Financed by ALCATEL-France. Budget: 50,000FF.

Adaptive techniques for wireless multiple-access communications (1998 - 1999). Department of Computer Engineering and Informatics, University of Patras, Greece. In collaboration with the Electrical Engineering departments of Princeton University and University of Pennsylvania, USA. NATO Scientific Exchange Program: Collaborative Research Grant. Budget: 12,000\$.

Development and study of adaptive estimation algorithms for telecommunication applications (1995 - 1997, PI). Department of Computer Engineering and Informatics, University of Patras, Greece. Financed by the Greek General Secretariat for Research and Technology. Budget: 100,000Drh.

Automatic finite element model generation of objects using image processing techniques (1992 - 1995, PI). Computer Technology Institute, Patras, Greece. In collaboration with Agricultural University of Athens, Greece, University of Leuven, Belgium, University of Swansea, Great Britain and University of Ilmenau, Germany. Financed by the EU Programme: Human Capital and Mobility. Budget: 100,000 ECU.

Detection of visually evoked cortical potentials (1991 - 1992, PI). Department of Computer Engineering and Informatics, University of Patras, Greece. Bilateral program with University of Ilmenau, Germany. Financed by the Greek and German General Secretariat for Research and Technology. Budget: 20,000Drh.

Development of a PC based visual evoked potentials station for noninvasive medical diagnosis (1991 - 1992, PI). Department of Computer Engineering and Informatics, University of Patras, Greece. Financed by the Greek General Secretariat for Research and Technology. Budget: 20,000Drh.

Fast estimation algorithms for echo cancellation in communication channels (1989 - 1990), Department of Computer Engineering and Informatics, University of Patras, Greece. Financed by the Greek General Secretariat for Research and Technology. Budget: 20,000Drh.

Development of a DSP based bio-impedance monitoring station (1989 - 1990, PI). Computer Technology Institute, Patras, Greece. Bilateral program with University of Ilmenau, Germany. Financed by the Greek and German General Secretariat for Research and Technology. Budget: 20,000Drh.

Signal processing techniques for detecting and localizing fatigues in off-shore platforms (1983 - 1986). Institut National de Research en Informatique et en Automatique - INRIA, France. Financed by Elf-Aquitaine. Budget: 200,000FF.

Teaching

University of Patras, Greece

Department of Electrical and Computer Engineering

Undergraduate Level: Machine Learning Techniques, Digital Signal Processing, Digital Signal Processing Laboratory, Estimation Theory and Stochastic Control, Fuzzy and Neural Control.

Graduate Level: Machine Learning, Detection and Estimation.

MS Interdepartmental Program, Signal Processing and Communication Systems

Graduate Level: Machine Learning, Detection and Estimation.

Department of Computer Engineering and Informatics

Undergraduate Level: Linear Algebra, Electric Circuits, Signals and Systems, Digital Signal Processing, Digital Communications, Control Theory.

Graduate Level: Measure Theory (Lectures), Detection and Estimation.

University of Thessaly, Greece

Department of Computer and Communication Engineering

Undergraduate Level: Signals and Systems, Digital Signal Processing.

Graduate Level: Detection and Estimation.

Columbia University, USA

Department of Statistics

Graduate Level: Sequential Detection of Changes (Summer course, 2007).

Department of Electrical Engineering

Graduate Level: Detection and Estimation (Fall 2009, Fall 2012).

University of Illinois at Urbana-Champaign, USA

Department of Electrical and Computer Engineering

Undergraduate Level: Digital Signal Processing (Fall 2023).

Graduate Level: Data Driven Techniques (Fall 2023).

Coordinated Science Lab

Graduate Level: Optimal Stopping, Application to Sequential Detection (Fall 2014, series of 11 one-hour lectures).

Rutgers University, USA

Department of Management Science & Information Systems

Undergraduate Level: Optimization Modeling (Fall 2015).

Department of Electrical and Computer Engineering

Graduate Level: Digital Signals and Filters (Fall 2016).

Department of Computer Science

Graduate Level: Computer Vision (Fall 2017, Spring 2018), Foundations of Computer and Data Science (Spring 2018, Fall 2018, Fall 2019), Pattern Recognition: Theory and Applications (Fall 2018).

Advising

PhD Students

Tony Yaacoub (2018), Sequential interval estimation for Bernoulli trials, Department of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, GA, USA. (Participated in supervision, advisors: Yajun Mei and David Goldsman). With Amazon, Seattle, WA, USA.

Jonathan Ligo (2017), Detection of sparse mixtures: Fundamental limits and algorithms, Department of Electrical and Computer Engineering, University of Illinois at Urbana-Champaign, IL, USA. (Participated in supervision, advisor: Prof. V. Veeravalli). Researcher, Applied Physics Lab, Johns Hopkins University, Baltimore, MA, USA.

Yasin Yilmaz (2014), Event-triggered sampling for communications, Department of Electrical Engineering, Columbia University, New York, NY, USA. (Participated in supervision, advisor: Prof. X. Wang). Assistant Professor, Department of Electrical Engineering, University of South Florida, Tampa, FL, USA.

Georgios Fellouris (2010), Decentralized sequential decision making with asynchronous communication, (advisor), Statistics department, Columbia University, New York, NY, USA. Assistant Professor, Department of Statistics, University of Illinois at Urbana-Champaign, IL, USA.

Maben Rabi (2006), Packet based inference and control (Participated in supervision, advisor: J. Baras), Department of Electrical Engineering, University of Maryland, College Park, MD, USA. Professor with the department of Computer Science and Communication, Ostfold University College, Ostfold, Norway.

Olympia Hadjiliadis (2005), Change-point detection of two-sided alternatives in the Brownian motion model and its connection to the gambler's ruin problem with relative wealth perception (Participated in supervision, advisor: J. Vecer), Statistics department, Columbia University, New York, NY, USA. Professor with the department of Mathematics and Statistics, Hunter College, CUNY, New York, NY, USA.

Xenofon Doukopoulos (2004), Power techniques for blind channel estimation in wireless communication systems, (advisor), IRISA - INRIA, University of Rennes-1, Rennes, France. With Parrot S.A., Paris, France.

Emmanouil Psarakis (1991), Design of multidimensional FIR filters with the help of transformations, (advisor), Department of Computer Engineering and Informatics, University of Patras, Greece. Associate Professor, Computer Engineering and Informatics Department, University of Patras, Greece.

Jean-Luc Botto (1986), Study of the fast transversal algorithms: application to echo cancellation in audioconferencing (Participated in supervision, advisor: Dr. C. Samson), IRISA and University of Rennes-1, Rennes, France. Chief Architect, Purple Labs SA, Tresserve, France.

Postdoctoral Fellows

Sveinn Olaffson, PhD 2016, Statistics, Purdue University. (10/1/2017-12/31/2017), collaboration in Sequential detection of changes in continuous-time processes. Postdoc, Columbia University.

Taposh Banerjee, PhD 2014, ECE, UIUC. (9/1/2015-12/31/2015), collaboration in Sequential detection of changes using Bayesian techniques. Assistant professor, ECE, University of Texas at San Antonio

Visitors

Emmanouil Psarakis (9/2018-1/2019), Stochastic nonlinear modeling using Generative Networks, Associate Professor, Department of Computer Engineering and Informatics, University of Patras, Patras, Greece. Visiting Professor, Computer Science department, Rutgers University.

Master Students

Nikolaos Kentros, (2025), Dimension reduction using neural networks, MS inter-departmental program: Information Processing Systems and Machine Intelligence, University of Patras, Patras, Greece.

Kalliopi Bassiotti, (2017-2020), Likelihood ratio estimation, application to GANs and inverse problems, Computer Science, Rutgers University, New Brunswick, NJ, USA.

Feeby Salib (2018), Reinforcement learning techniques, Electrical and Computer Engineering, Rutgers University, New Brunswick, NJ, USA.

Zaharias Psarakis (2014), Robust techniques for optical flow estimation, MS inter-departmental program: Signal Processing & Communication Systems, University of Patras, Patras, Greece.

Nikoleta Garini (2009), Compression techniques for hearing aids, MS inter-departmental program: Signal Processing & Communication Systems, University of Patras, Patras, Greece.

Panagiotis Niavis (2009), Feedback cancellation algorithms, performance and stability analysis, MS inter-departmental program: Signal Processing & Communication Systems, University of Patras, Patras, Greece.

Charalambos Zarokostas (2009), Audio feedback cancellation in digital hearing aids, MS inter-departmental program: Signal Processing & Communication Systems, University of Patras, Patras, Greece.

Charalambos Stamatopoulos (2008), Detection of attacks in wireless networks, MS inter-departmental program: Signal Processing & Communication Systems, University of Patras, Patras, Greece.

Panagiota Matsuka (2007), Adaptive compression techniques for hearing aids, MS inter-departmental program: Signal Processing & Communication Systems, University of Patras, Patras, Greece.

Dimitrios Chatzoulis (2006), Turbo techniques for coding and equalization of telecommunication channels, Computer and Communication Engineering, University of Thessaly, Volos, Greece.

Amadou Dame Sall (2004), Bit Error Rate estimation in optical communication channels, DEA, University of Rennes-1, Rennes, France. (Co-advisor with Frederic Cerou).

Xenofon Doukopoulos (2001), Blind channel estimation in CDMA communication systems, MS inter-departmental program: Signal Processing & Communication Systems, University of Patras, Patras, Greece.

G.V. Moustakides has also advised numerous undergraduate students for their diploma thesis.

Service to University

Co-Director of Professional Master Program in Data Science (2017 - 2019), Department of Computer Science, Rutgers University, Piscataway, NJ, USA.

Director of MS and PhD Program (2004 - 2005), Department of Computer and Communication Engineering, University of Thessaly, Volos, Greece.

Co-Founder, Director and Vice Director of MS Inter-Departmental Program in Signal Processing and Communication Systems (1998 - 2001). Participating departments: Electrical & Computer Engineering, Computer Engineering & Informatics, Physics, University of Patras, Greece.

Head of Signal Processing & Communications Lab (1994 - 2001), Department of Computer Engineering and Informatics, University of Patras, Greece.

Director of Computer Center (1994 - 2001), Department of Computer Engineering and Informatics, University of Patras, Greece.

Research Interests

Statistical Machine Learning

Nonlinear statistical modeling (current activity)

Restoration and Classification with Generative models

Stochastic Optimization and Processing

Sequential change detection and Applications (current activity)

Stochastic optimization and Optimal stopping

Event-triggered sampling in stochastic control

Adaptive Signal Processing

Fair comparison methods of adaptive estimation algorithms

Stabilization of fast estimation algorithms

Low computational complexity estimation algorithms for echo cancellation and equalization

Medical Signal Processing

Signal processing for hearing aids

Detection techniques for noninvasive diagnostic methods

Physical Layer Communications

Detection of access layer misbehavior in Wireless Networks

Blind channel estimation in CDMA and OFDM systems

BER estimation in optical communication systems

Application of Probability and Statistics in Databases

Privacy preserving data mining, Database security
Hypothesis testing techniques for record matching

1-D and 2-D Filter Design Techniques

Design of two and multi-dimensional FIR filters using transformations and L_2 techniques
FIR and IIR polynomial predictive filters

Off-line detection and estimation

Detection and diagnosis of changes in physical structures
Local techniques for detecting changes
Robust detection and filtering of signals in dependent noise

Collaborations

Children's Hospital of Philadelphia (2025 - Today), Immunogenetics Lab, University of Pennsylvania. Collaboration with Prof. D. Monos on TBD.

University of Patras (2014 - Today), Computer Engineering and Informatics Department, Patras, Greece. Collaboration with Prof. E. Psarakis on Machine learning problems and IIR filter design.

University of Illinois at Urbana-Champaign (2020 - 2023), Coordinated Science Lab, Department of Electrical and Computer Engineering. Collaboration with Prof. O. Milenkovic on the Secretary problem and its variants.

Georgia Institute of Technology (2017 - 2022), School of Industrial and Systems Engineering, Atlanta, GA, USA. Collaboration Prof. Y. Xie on Subspace change detection.

Georgia Institute of Technology (2016 - 2021), School of Industrial and Systems Engineering, Atlanta, GA, USA. Collaboration with Prof. Y. Mei on Sequential detection and estimation.

University of Illinois at Urbana-Champaign (2014 - 2023), Coordinated Science Lab, Department of Electrical and Computer Engineering. Collaboration with Prof. V. Veeravalli on Sequential and sparse signal detection.

University of Illinois at Urbana-Champaign (2013 - 2023), Statistics department, Collaboration with Prof. G. Fellouris on Sequential detection.

University of Southern California (2010 - 2012), Department of Mathematics, Los Angeles, CA, USA. Collaboration with Dr. G. Fellouris on Decentralized sequential detection.

Columbia University (2009 - 2013), Department of Electrical Engineering, New York, NY, USA. Collaboration with Prof. X. Wang on Application of event-triggered sampling to DSP.

SoundWorld Solutions (2008 - 2014), Park Ridge, IL, USA. Collaboration with Dr. S. Basseas (CEO) on Signal processing for hearing aids.

Georgia Institute of Technology (2008 - 2010), School of Industrial and Systems Engineering, Atlanta, GA, USA. Collaboration with Prof. Y. Mei on Sequential changepoint detection.

University of Southern California (2008 - 2014), Department of Mathematics, Los Angeles, CA, USA. Collaboration with Dr. A. Tartakovsky on Sequential changepoint detection.

Columbia University (2007 - 2010), Department of Statistics, New York, NY, USA. Collaboration with G. Fellouris on Sequential changepoint detection.

University of Maryland (2005 - 2006), Institute for System Research, College Park, MA, USA. Collaboration with Prof. J. Baras and Prof. M. Rabi on Event-triggered sampling.

University of Thessaly (2004 - 2010), Department of Electrical & Computer Engineering, Volos, Greece. Collaboration with Prof. V. Verykios on Statistical techniques for databases.

Princeton University (1997 - 1999), Department of Electrical Engineering, Princeton, NJ, USA. Collaboration with Prof. H.V. Poor on Multiuser communications.

Ilmenau Technical University (1990 - 1995), Institute of Biomedical Engineering and Informatics, Thuringen, Germany. Collaboration with Prof. G. Henning on Visual evoked potential.

Membership in Societies

Life Senior Member of IEEE

Reviewer

Mathematics - Statistics: Annals of Statistics; Applied Probability Journals; Automatica; Biometrika; Communications in Statistics - Theory and Methods; Journal of Multivariate Analysis; Journal of Statistical Planning and Inference; Journal of the Bernoulli Society for Mathematical Statistics and Probability; Mathematics of Operations Research; Methodology and Computing in Applied Probability; Naval Research Logistics; Scandinavian Journal of Statistics; Sequential Analysis; SIAM Journal on Control and Optimization.

Engineering - IEEE: Communication Letters; Journal of Selected Areas in Communications; Signal Processing Letters; Transactions on Circuits and Systems I & II; Transactions on Communications; Transactions on Information Theory; Transactions on Neural Networks; Transactions on Signal Processing; Transactions on Systems Man and Cybernetics.

Engineering - Other: International Journal on Adaptive Control and Signal Processing; Journal of Sound and Vibration; Kuwait Journal of Science and Engineering; Wireless Communications and Mobile Computing; Signal Processing (Elsevier).

Research Organizations/Publishers: Army Research Office, USA; Binational Science Foundation USA-Israel; Greek General Secretariat for Research and Technology; Israel Science Foundation; National Science Foundation, USA; Mathematical Reviews (American Mathematical Society); Région Champagne Ardenne, France; Wiley Publishing Company (book reviewer).

Editorial and Organizational Activities

International Workshop on Applied Probability, IWAP 2023, June, Thessaloniki, Greece: Co-organizer with V. Veeravalli of the invited session "Sequential Methods and Optimal Stopping-I,II".

IEEE International Symposium on Information Theory, ISIT 2020, 21-25 June, Los Angeles, USA: Technical program committee member.

IEEE Transactions on Information Theory, Inaugural Associate Editor for Sequential Methods, 2016-2018.

International Workshop on Applied Probability, IWAP 2018, 18-21 June, Budapest, Hungary: Co-organizer with V. Veeravalli of the invited session "Sequential Methods".

Conference on Information Sciences and Systems, CISS 2018, 21-23 March, Princeton, USA: Co-organizer with V. Veeravalli of the invited session "Sequential Methods for Signal Processing and Control".

Asilomar Conference on Signals, Systems, and Computers, 6-9 November 2016, Pacific Grove, CA, USA: Co-organizer with V. Veeravalli of the session "Sequential Signal Processing".

International Workshop in Sequential Methodologies, IWSM 2015, 22-24 June, Columbia University, NYC, USA: Co-organizer with A. Tartakovsky of the session "Tribute to Alexander Novikov: Sequential Tests and Estimation". Co-organizer with V. Veeravalli of the session "Sequential/Quickest Change Detection: Theory and Applications".

IEEE Transactions on Information Theory, Associate Editor for Detection and Estimation, 2011-2014.

International Workshop on Sequential Methods and their Applications, 4-8 June 2012, University of Rouen, France: Scientific Committee.

International Workshop in Sequential Methodologies, IWSM 2011, 14-16 June, Stanford University, Stanford, USA: Organizer of the session "Applications of Sequential Detection and Optimal Stopping".

International Workshop on Applied Probability, IWAP 2010, 5-8 July, Universidad Carlos III of Madrid, Colmenarejo Campus, Madrid, Spain: Co-organizer with I. Nikiforov and A. Tartakovsky of the invited session "Sequential Detection & Estimation I,II,III,IV".

International Workshop in Sequential Methodologies, IWSM 2009, 15-17 June, Université de Technologie de Troyes, Troyes, France: Steering committee, Program committee (Chair), Local organization committee, Co-organizer with A. Tartakovsky of the invited session "Sequential Testing and Optimal Stopping I,II,III" and with I. Nikiforov of the invited session " Sequential change-point detection and isolation".

International Workshop in Sequential Methodologies, IWSM 2007, 22-25 July, Auburn University, Auburn, Alabama, USA: Steering committee.

EURASIP Journal on Applied Signal Processing, vol. 2007, K. Berberidis, B. Champagne, G.V. Moustakides, H.V. Poor, P. Stoica, Special Issue on Advances in subspace-based techniques for Signal Processing and Communications: Guest editor.

European Signal Processing Conference, EUSIPCO 1998, 8-11 September, Rhode, Greece: Organizing committee (Tutorials).

Awards/Distinctions

Keynote speaker (9/2025), European Network for Business and Industrial Statistics (ENBIS 2025), Piraeus, Greece.

Nokia Foundation Fellowship (2/2022-6/2022), Support for visit and stay at Aalto University, Espoo, Finland.

Plenary speaker (7/2019), IEEE International Symposium on Information Theory (ISIT 2019), Paris, France.

Plenary speaker (6/2018), International Workshop on Sequential Methodologies (IWSM), University of Rouen, Rouen, France.

Murray distinguished professorship (7/2016-1/2017), Computer Science, Rutgers University, NJ, USA.

Long-term distinguished lecturer (9/2014 - 12/2014), Coordinated Science Lab, University of Illinois, Urbana-Champaign, IL, USA.

Murray distinguished professorship (7/2013-1/2014), Computer Science, Rutgers University, NJ, USA.

Invited Talks (non-conference)

Designing optimal tests for sequential detection of changes (Sep. 2025), Keynote talk, European Network for Business and Industrial Statistics (ENBIS 2025), Piraeus, Greece.

Data driven estimation of conditional expectation, application to stochastic optimization (Apr. 2024), Probability Seminar, Institut de Mathématiques de Toulouse, Toulouse, France.

Data driven estimation of likelihood ratios with application to GANs (Feb. 2023), Centre Borelli, University of Paris-Saclay, Paris, France.

Machine learning for signal processing (Nov. 2022), tutorial presentation, University of Melbourne, Creswick campus, Australia.

Metrics and optimum tests in sequential detection of changes (Nov. 2022), keynote talk, mini-symposium on "Change-point analysis and analysis of structural changes in finance, economics and medicine", University of Melbourne, Creswick campus, Australia.

Machine learning methods for statistical decision making (Nov. 2022), two-hour lecture, MATRIX research program on Mathematics of risk, University of Melbourne, Creswick campus, Australia.

From statistical estimation and generative modeling to inverse problem (May 2022), series of three two-hour lectures, Department of Signal Processing and Acoustics, School of Electrical Engineering, Aalto University, Espoo, Finland.

Data-driven detection methods (May 2022), Nokia Foundation, Espoo, Finland.

Data-driven Bayesian and non-Bayesian parameter estimation (Feb. 2022), two-hour lecture, Department of Signal Processing and Acoustics, School of Electrical Engineering, Aalto University, Espoo, Finland.

Data-driven binary hypothesis testing (Feb. 2022), two-hour lecture, Department of Signal Processing and Acoustics, School of Electrical Engineering, Aalto University, Espoo, Finland.

Sequential detection of changes (May 2021), Institute of Mathematics, University of Toulouse 2 Jean Jaurès, Toulouse, France.

Neural network estimation of likelihood ratios for testing and detection (Nov. 2019), Industrial and Systems Engineering department, Georgia Tech, Atlanta, USA

Quickest detection of changes: Classical and modern formulations (July 2019), Plenary talk, IEEE International Symposium on Information Theory (ISIT 2019), Paris, France.

Detecting changes in Markov processes (June 2017), Plenary talk, International Workshop on Sequential Methodologies (IWSM), University of Rouen, Rouen, France.

Metrics and optimum tests in sequential change detection (Dec. 2016), Industrial and Systems Engineering department, Georgia Tech, Atlanta, USA.

Sequential detection of changes: Metrics and optimum tests (Oct. 2016), Statistics department, Wharton School, University of Pennsylvania, Philadelphia, USA.

Sequential detection of a first-entry-to-a-set (Apr. 2016), France Research Center, Huawei Technologies, Paris, France.

Adaptive algorithms (Jan. 2015), Digital Technology Center, Electrical and Computer Engineering, University of Minnesota, Minneapolis, MN, USA. (Two one-hour lectures).

Sequential detection of changes: An overview (Jan. 2015), Digital Technology Center, Electrical and Computer Engineering, University of Minnesota, Minneapolis, MN, USA.

Optimal stopping, application to sequential detection, mini-course of eleven one-hour lectures, (Fall 2014), Coordinated Science Lab, University of Illinois at Urbana-Champaign, USA.

Sequential detection of changes: Overview and recent results (Jan. 2014), Electrical Engineering, Princeton University, Princeton, NJ, USA.

Sequential change detection: Brief overview (Dec. 2013), Command, Control and Interoperability Center for Advanced Data Analysis, Rutgers University, New Brunswick, NJ, USA.

Sequential detection and system identification (Nov. 2013), Statistics Department, University of Connecticut, Storrs, CT, USA.

Optimal routing of autonomous vehicles in stochastic environments (Dec. 2012), Computational Biomedicine, Imaging and Modeling Center, Computer Science Department, Rutgers University, NJ, USA.

Sequential detection: Overview and open problems (Dec. 2011), Advanced Network Colloquium, Institute for Scientific Research (ISR), University of Maryland, College Park, MA, USA.

Optimum joint detection and estimation, application to MIMO radar (Jan. 2011), Department of Electrical Engineering, University of Southern California (USC), Los Angeles, CA, USA.

Sequential rate change detection in Poisson processes (Jan. 2011), Department of Statistics and Applied Probability, University of California, Santa Barbara, USA.

Joint detection and estimation, application to MIMO radar (Sep. 2010), Department of Electrical Engineering, Bilkent University, Ankara, Turkey.

Optimum GLR tests (Jan. 2009), Probability & Statistics seminar, Department of Mathematics, University of Southern California (USC), Los Angeles, CA, USA.

Finite sample size optimality of GLR tests (Sep. 2008), Electrical Engineering department, Columbia University, New York, NY, USA.

Finite sample size optimality of GLR tests (Aug. 2008), Statistics seminar, School of Industrial and Systems Engineering, Georgia Institute of Technology (GA Tech), Atlanta, GA, USA.

Asynchronous random sampling for decentralized detection (Feb. 2008), Applied Math seminar, Department of Mathematics, University of Southern California (USC), Los Angeles, CA, USA.

Change time models and performance criteria for the problem of change detection (Feb. 2008), Probability & Statistics seminar, Department of Mathematics, University of Southern California (USC), Los Angeles, CA, USA.

Decentralized sequential hypothesis testing and change detection (Jan. 2008), Laboratoire de Modélisation et de Sûreté de Systèmes, Université de Technologie de Troyes, Troyes, France.

Sequential techniques for hypothesis testing and change detection (Oct. 2007), School of Electrical Engineering, The Royal Institute of Technology (KTH), Stockholm, Sweden.

Sequential detection of changes, mini-course of nine lectures, (May-June 2007), Department of Statistics, Columbia University, New York, NY, USA.

The Poisson disorder problem (Feb. 2006), Department of Operations Research and Financial Engineering, Princeton University, Princeton, NJ, USA.

Performance evaluation of CUSUM tests (March 2003), Department of Statistics, Columbia University, New York, NY, USA.

Optimum CUSUM tests for detecting changes in continuous time processes (March 2003), 11-th Annual Applied Probability Day, The Center for Applied Probability, Columbia University, New York, NY, USA (only six speakers were invited to this annual event).

Optimum sequential procedures for detecting changes in processes (Dec. 2002), Université du Maine, Faculté des Sciences, Laboratoire de Statistique et Processus, Le Mans, France.

Adaptive algorithms for blind separation of dependent sources (Jan. 2002), Department of Mathematics, Université Joseph Fourier - Grenoble I, Grenoble, France.

Optimum adaptive algorithms for blind source separation (April 2001), Institut d'informatique, Université de Neuchâtel, Neuchâtel, Switzerland.

Decision directed algorithms for multiuser detection (Nov. 2000), Institut de Recherche en Informatique et en Automatique INRIA - IRISA, Rennes, France.

Adaptive algorithms for blind source separation (July 2000), Signal Processing Lab., Department of Electrical Engineering, University of Pennsylvania (UPENN), Philadelphia, PA, USA.

Optimum adaptive signal processing algorithms (June 1999), Laboratoire de Modélisation et de Sûreté de Systèmes, Université de Technologie de Troyes, Troyes, France.

New developments in sequential analysis (March 1998), Department of Statistics, Hebrew University of Jerusalem, Jerusalem, Israel.

Language Skills

Greek (native), English (fluent), French (very good).

List of Publications

Books/Book Chapters

- [B5] G.V. Moustakides, **Basic Techniques in Digital Signal Processing, 2nd Edition** (in Greek), Editions Tziola, Greece, Oct. 2022.
- [B4] Y. Yilmaz, G.V. Moustakides, X. Wang, A. Hero, **Event-based statistical signal processing**, Chapter 20 in **Event-Based Control and Signal Processing**, pp. 457-485, M. Miskowicz (editor), CRC Press, Taylor & Francis, 2016.
- [B3] G.V. Moustakides, **Basic Techniques in Digital Signal Processing** (in Greek), Editions Tziola, Greece, Oct. 2003.
- [B2] G.V. Moustakides, **Constrained adaptive linear multiuser detection schemes**, chapter in the book: **Signal Processing for Wireless Communications Systems**, H.V. Poor and L. Tong (eds), Springer, March 2002, (same as [J34]).
- [B1] M. Basseville, A. Benveniste, G.V. Moustakides, **The local method applied to the robust detection of changes in the poles of a pole-zero system**, Lecture Notes in Control and Information Sciences, vol. LNCIS-77, pp. 259-274, Springer, Berlin, 1986.

Journals

- [J69] G.V. Moustakides, X. Liu, O. Milenkovic, **Optimal stopping methodology for the secretary problem with random queries**, Journal of Applied Probability, vol. 61, no. 2, pp. 578-602, June 2024.
- [J68] G. Fellouris, V.V. Veeravalli, G.V. Moustakides, **Quickest change detection with controlled sensing**, IEEE Journal on Selected Areas in Information Theory, vol. 5, pp. 1-11, 2024.
- [J67] X. Liu, O. Milenkovic, G.V. Moustakides, **Query-based selection of optimal candidates under the Mallows model**, Theoretical Computer Science, vol. 979, pp. 1-24, Sep. 2023.
- [J66] L. Xie, G.V. Moustakides, Y. Xie, **Window-limited CUSUM for sequential change detection**, IEEE Transactions on Information Theory, vol. 69, no 9, pp. 1557-9654, Sep. 2023.
- [J65] Q. Xu, Y. Mei, G.V. Moustakides, **Optimum multi-stream sequential change-point detection with sampling control**, IEEE Transactions on Information Theory, vol. 67, no. 11, pp. 7627-7636, Nov. 2021.
- [J64] G. Rovatsos, G.V. Moustakides, V.V. Veeravalli, **Quickest detection of moving anomalies in sensor networks**, IEEE Journal on Selected Areas in Information Theory, vol. 2, no. 2, pp. 762-773, June 2021.
- [J63] L. Xie, Y. Xie, G.V. Moustakides, **Sequential subspace changepoint detection**, Sequential Analysis, vol. 39, no. 3, pp. 307-335, 2020. Also, **finalist for best student paper award (4 papers out of 38)** in Informs, Section: Quality, Statistics & Reliability, 2019.
- [J62] T. Yaacoub, Y. Mei, D. Goldsman, G.V. Moustakides, **Tandem-width sequential confidence intervals for a Bernoulli proportion**, Sequential Analysis, vol. 38, no. 2, pp. 163-183, July 2019.

- [J61] T. Yaacoub, G.V. Moustakides, Y. Mei, **Optimal stopping for interval estimation in Bernoulli trials**, IEEE Transactions on Information Theory, vol. 65, no. 5, pp. 3022-3033, May 2019.
- [J60] T. Banerjee, G.V. Moustakides, **Min-max optimality of Shiryaev-Roberts procedure for quickest drift change detection of a Brownian motion**, Sequential Analysis, vol. 36, no 3, pp. 355-369, Sept. 2017.
- [J59] W. Zhang, G.V. Moustakides, H.V. Poor, **Opportunistic detection rules: Finite and asymptotic analysis**, IEEE Transactions on Information Theory, vol. 62, no. 4, pp. 1-16, April 2016.
- [J58] Y. Yilmaz, G.V. Moustakides, X. Wang, **Sequential and decentralized estimation of linear regression parameters in wireless sensor networks**, IEEE Transactions on Aerospace and Electronic Systems, vol. 52, no. 1, pp. 288-306, Feb. 2016.
- [J57] Y. Yilmaz, G.V. Moustakides, X. Wang, **Sequential joint detection and estimation**, Teoriya Veroyatnostei i ee Primeneniya, vol. 59, no. 3, pp. 562-578, 2014 (Russian edition) also in SIAM Theory of Probability and its Applications, vol. 59, no. 3, pp. 452-465, 2015 (English edition).
- [J56] G.V. Moustakides, **Multiple optimality properties of the Shewhart test**, Sequential Analysis, vol. 33, pp. 318-344, 2014.
- [J55] Y. Yilmaz, G.V. Moustakides, X. Wang, **Channel-aware decentralized detection via level-triggered sampling**, IEEE Transactions on Signal Processing, vol. 61, no. 2, pp. 300-315, Jan. 2013.
- [J54] Y. Yilmaz, G.V. Moustakides, X. Wang, **Cooperative sequential spectrum sensing based on event-triggered sampling**, IEEE Transactions on Signal Processing, vol. 60, no. 9, pp. 4509-4524, Sept. 2012.
- [J53] G.V. Moustakides, G.H. Jajamovich, A. Tajer, X. Wang, **Joint detection and estimation: optimum tests and applications**, IEEE Transactions on Information Theory, vol. 58, no. 7, pp. 4215-4229, July 2012.
- [J52] M. Rabi, G.V. Moustakides, J.S. Baras, **Adaptive sampling for linear state estimation**, SIAM Journal on Control and Optimization, vol. 50, no. 2, pp. 672-702, March 2012.
- [J51] G.V. Moustakides, A.S. Polunchenko, A.G. Tartakovsky, **A numerical approach to performance analysis of quickest change-point detection procedures**, Statistica Sinica, vol. 21, no. 2, pp. 571-596, April 2011.
- [J50] G. Fellouris, G.V. Moustakides, **Decentralized sequential hypothesis testing using asynchronous communication**, IEEE Transactions on Information Theory, vol. 57, no. 1, pp. 534-548, Jan. 2011.
- [J49] G.V. Moustakides, A.G. Tartakovsky, **A note on "The optimal stopping time for detecting changes in discrete time Markov processes" by Han and Tsung**, Sequential Analysis, vol. 29, no. 4, pp. 483-486, Oct. 2010.
- [J48] A.G. Tartakovsky, G.V. Moustakides, **State-of-the-art in Bayesian changepoint detection**, Sequential Analysis, special issue on changepoint detection in honor of Dr. Shiryaev's 75th birthday, vol. 29, no. 2, pp. 125-145, April 2010.
- [J47] A. Tajer, G.H. Jajamovich, X. Wang, G.V. Moustakides, **Optimal joint target detection and parameter estimation by MIMO radar**, IEEE Journal of Selected Topics in Signal Processing, vol. 4, no. 1, pp. 127-145, Feb. 2010.
- [J46] G.V. Moustakides, A.S. Polunchenko, A.G. Tartakovsky, **Numerical comparison of CUSUM and Shiryaev-Roberts procedures**, Communications in Statistics, Theory and Methods, special issue on: Recent advances in theory and applications of Statistics, vol. 38, no. 16 & 17, pp. 3225-3239, 2009.
- [J45] G.V. Moustakides, V.S. Verykios, **Optimal stopping: a record-linkage approach**, ACM Journal of Data and Information Quality, special issue on Data Quality in Databases, vol. 1, no. 2, pp. 9:1-9:34, Sept. 2009.
- [J44] S. Radosavac, G.V. Moustakides, J.S. Baras, J. Koutsopoulos, **An analytic framework for modeling and detecting access layer misbehavior in wireless networks**, ACM Transactions on Information and System Security, vol. 11, no. 4, pp. 19:1-19:28, July 2008.
- [J43] G.V. Moustakides, V.S. Verykios, **A max-min approach for hiding frequent itemsets**, Data and Knowledge Engineering Journal, Elsevier, invited paper, special issue on Data Hiding, vol. 65, no. 1, pp. 75-89, April 2008.
- [J42] X. Doukopoulos, G.V. Moustakides, **Fast and stable subspace tracking**, IEEE Transactions on Signal Processing, vol. 56, no. 4, pp. 1452-1465, April 2008.
- [J41] G.V. Moustakides, **Sequential change detection revisited**, Annals of Statistics, vol. 36, no. 2, pp. 787-807, April 2008.
- [J40] S. Radosavac, A. Cardenas, J.S. Baras, G.V. Moustakides, **Detecting IEEE 802.11 MAC layer misbehavior in ad hoc networks: Robust strategies against individual and colluding attackers**, Journal of Computer Security, special issue on Security of Ad Hoc and Sensor Networks, vol. 15, no. 1, pp. 103-128, Jan. 2007.
- [J39] X. Doukopoulos, G.V. Moustakides, **Blind adaptive channel estimation in OFDM systems**, IEEE Transactions on Wireless Communications, vol. 5, no. 7, pp. 1716-1725, July 2006.
- [J38] O. Hadjilidiadis, G.V. Moustakides, **Optimal and asymptotically optimal CUSUM rules for change point detection in the Brownian Motion model with multiple alternatives**, Teoriya Veroyatnostei i ee Primeneniya, vol. 50, no. 1, pp. 131-144, 2005 (Russian edition) also in SIAM Theory of Probability and its Applications, vol. 50, no. 1, pp. 75-85, Jan. 2006 (English edition).

- [J37] X.G. Doukopoulos, G.V. Moustakides, **Adaptive power techniques for blind channel estimation in CDMA systems**, IEEE Transactions on Signal Processing, vol. 53, no. 3, pp. 1110-1120, March 2005.
- [J36] G.V. Moustakides, **Optimality of the CUSUM procedure in continuous time**, Annals of Statistics, vol. 32, no. 1, pp. 302-315, Feb. 2004.
- [J35] V.S. Verykios, G.V. Moustakides, M.G. Elfeky, **A Bayesian decision model for cost optimal record matching**, The Very Large Data Bases Journal, vol. 12, no. 1, pp. 28-40, May 2003.
- [J34] E.Z. Psarakis, G.V. Moustakides, **A robust initialization scheme for the Remez exchange algorithm**, IEEE Signal Processing Letters, vol. 10, no. 1, pp. 1-3, Jan. 2003.
- [J33] G.V. Moustakides, **Constrained adaptive linear multiuser detection schemes**, invited paper, special issue on multiuser detection, Journal of VLSI Signal Processing, vol. 30, no 1-3, pp. 293-309, Jan.-March 2002.
- [J32] G.V. Moustakides, H.V. Poor, **On the relative error probabilities of linear multiuser detectors**, IEEE Transactions on Information Theory, vol. 47, no. 1, pp. 450-456, Jan. 2001.
- [J31] G.V. Moustakides, D. Briassoulis, E.Z. Psarakis, E. Dimas, **3D image acquisition and NURBS based geometry modeling of natural objects**, Advances in Engineering Software, vol. 31, no. 12, pp. 955-969, Dec. 2000.
- [J30] G.V. Moustakides, **Extension of Wald's first lemma to Markov processes**, Journal of Applied Probability, vol. 36, no. 1, pp. 48-59, March 1999.
- [J29] G.V. Moustakides, **Locally optimum adaptive signal processing algorithms**, IEEE Transactions on Signal Processing, vol. SP-46, no. 12, pp. 3315-3325, Dec. 1998.
- [J28] G.V. Moustakides, **Exponential convergence of products of random matrices, application to adaptive algorithms**, International Journal of Adaptive Control and Signal Processing, vol. 12, no. 7, pp. 579-597, Nov. 1998.
- [J27] G.V. Moustakides, **Quickest detection of abrupt changes for a class of random processes**, IEEE Transactions on Information Theory, vol. IT-44, no. 5, pp. 1965-1968, Sept. 1998.
- [J26] A. Liavas, G.V. Moustakides, G. Henning, E.Z. Psarakis, P. Husar, **A periodogram-based method for the detection of steady-state visually evoked potentials**, IEEE Transactions on Biomedical Engineering, vol. BE-45, no. 2, pp. 242-248, Feb. 1998.
- [J25] G.V. Moustakides, **Study of the transient phase of the constant forgetting factor RLS**, IEEE Transactions on Signal Processing, vol. SP-45, no. 10, pp. 2468-2476, Oct. 1997.
- [J24] E.Z. Psarakis, G.V. Moustakides, **An L_2 based method for the design of one dimensional zero phase FIR digital filters**, IEEE Transactions on Circuits and Systems-I, vol. CASI-44, no. 7, pp. 591-601, July 1997.
- [J23] P.P. Mavridis, G.V. Moustakides, **Simplified Newton type adaptive estimation algorithms**, IEEE Transactions on Signal Processing, vol. SP-44, no. 8, pp. 1932-1940, Aug. 1996.
- [J22] G.V. Moustakides, E.Z. Psarakis, **Design of N-dimensional hyperquadrantly symmetric FIR filters using the McClellan transform**, Transaction Brief in IEEE Transactions on Circuits and Systems-II, vol. CASII-42, no. 8, pp. 547-550, Aug. 1995.
- [J21] S. Theodoridis, G.V. Moustakides, K. Berberidis, **A fast Newton multichannel algorithm for decision feedback equalization**, IEEE Transactions on Signal Processing, vol. SP-43, no. 1, pp. 327-331, Jan. 1995.
- [J20] G.V. Moustakides, K. Berberidis, **New efficient LS and SVD based techniques for high resolution frequency estimation**, IEEE Transactions on Signal Processing, vol. SP-43, no. 1, pp. 85-94, Jan. 1995.
- [J19] E.Z. Psarakis, G.V. Moustakides, **Design of two dimensional zero phase FIR filters via the generalized McClellan transform**, IEEE Transactions on Circuits and Systems, vol. CAS-38, no. 11, pp. 1355-1363, Nov. 1991.
- [J18] G.V. Moustakides, S. Theodoridis, **Fast Newton transversal filters, a new class of adaptive estimation algorithms**, IEEE Transactions on Acoustic, Speech and Signal Processing, vol. ASSP-39, no. 10, pp. 2184-2193, Oct. 1991.
- [J17] G.V. Moustakides, **Correcting the instability due to finite precision of the fast Kalman identification algorithms**, Signal Processing, vol. 18, no. 1, pp. 33-42, Sept. 1989.
- [J16] J-L. Botto, G.V. Moustakides, **Stabilizing the fast Kalman algorithms**, IEEE Transactions on Acoustic, Speech and Signal Processing, vol. ASSP-37, no. 9, pp. 1342-1348, Sept. 1989.
- [J15] A. Rougée, A. Benveniste, M. Basseville, G.V. Moustakides, **Optimum robust detection of changes in the AR part of multivariate ARMA process**, IEEE Transactions on Automatic Control, vol. AC-32, no. 12, pp. 1116-1120, Dec. 1987.
- [J14] M. Basseville, A. Benveniste, G.V. Moustakides, A. Rougée, **Optimal sensor location for detecting changes in dynamical behavior**, IEEE Transactions on Automatic Control, vol. AC-32, no. 12, pp. 1067-1075, Dec. 1987.
- [J13] M. Basseville, A. Benveniste, G.V. Moustakides, A. Rougée, **Detection and diagnosis of changes in the eigenstructure of nonstationary multivariable systems**, Automatica, vol. 23, no. 4, pp. 479-489, July 1987.
- [J12] A. Benveniste, M. Basseville, G.V. Moustakides, **The asymptotic local approach for change detection and model validation**, IEEE Transactions on Automatic Control, vol. AC-32, no. 7, pp. 583-592, July 1987.
- [J11] G.V. Moustakides, J.B. Thomas, **Robust detection of signals in dependent noise**, IEEE Transactions on Information Theory, vol. IT-33, no. 1, pp. 11-15, Jan. 1987.

- [J10] G.V. Moustakides, **Optimal stopping times for detecting changes in distributions**, Annals of Statistics, vol. 14, no. 4, pp. 1379-1387, Dec. 1986.
- [J9] M. Basseville, A. Benveniste, G.V. Moustakides, **Detection and diagnosis of abrupt changes in modal characteristics of nonstationary digital signals**, IEEE Transactions on Information Theory, vol. IT-32, no. 3, pp. 412-417, May 1986.
- [J8] G.V. Moustakides, J.B. Thomas, **Optimum detection of weak signals with minimal knowledge of dependency**, IEEE Transactions on Information Theory, vol. IT-32, no. 1, pp. 97-102, Jan. 1986.
- [J7] G.V. Moustakides, A. Benveniste, **Detecting changes in the AR parameters of a nonstationary ARMA process**, Stochastics, vol. 16, pp. 137-155, 1986.
- [J6] G.V. Moustakides, **Robust detection of signals: a large deviations approach**, IEEE Transactions on Information Theory, vol. IT-31, no. 6, pp. 822-825, Nov. 1985.
- [J5] G.V. Moustakides, S.A. Kassam, **Min-max equalization for random signals**, IEEE Transactions on Communications, vol. COM-33, no. 8, pp. 820-825, Aug. 1985.
- [J4] G.V. Moustakides, J.B. Thomas, **Min-max detection of weak signals in ϕ -mixing noise**, IEEE Transactions on Information Theory, vol. IT-30, no. 3, pp. 529-537, May 1984.
- [J3] G.V. Moustakides, S.A. Kassam, **Robust Wiener filters for random signals in correlated noise**, IEEE Transactions on Information Theory, vol. IT-29, no. 4, pp. 614-619, July 1983.
- [J2] S.A. Kassam, G.V. Moustakides, J. Shin, **Robust detection of known signals in asymmetric noise**, IEEE Transactions on Information Theory, vol. IT-28, no. 1, pp. 84-91, Jan. 1982.
- [J1] G.V. Moustakides, S.D. Bedrosian, **Finding the graph with the maximum number of spanning trees**, Journal of the Franklin Institute, vol. 310, no. 6, pp. 343-348, Dec. 1980.

Conferences

- [C80] X. Liu, O. Milenkovic, G.V. Moustakides, **A combinatorial proof for the dowry problem**, Proceedings of the IEEE Information Theory Workshop, Saint-Malo, France, April 2023.
- [C79] G.V. Moustakides, **Data driven parameter estimation**, Proceedings of the IEEE International Symposium on Information Theory, Espoo, Finland, June 2022.
- [C78] K. Basioti, G.V. Moustakides, **Single image restoration with generative priors**, Proceedings of the IEEE International Conference on Image Processing, Anchorage Alaska, USA, Sep. 2021.
- [C77] K. Basioti, G.V. Moustakides, **Generative adversarial networks: A likelihood ratio approach**, Proceedings of the International Joint Conference on Neural Networks, Shenzhen, China, July 2021.
- [C76] Q. Xu, Y. Mei, G.V. Moustakides, **Second-order asymptotically optimal change-point detection algorithm with sampling control**, Proceedings of the IEEE Symposium on Information Theory, Los Angeles, USA, June 2020.
- [C75] G. Rovatsos, V.V. Veeravalli, G.V. Moustakides, **Quickest detection of a dynamic anomaly in a heterogeneous sensor networks**, Proceedings of the IEEE Symposium on Information Theory, Los Angeles, USA, June 2020.
- [C74] K. Basioti, G.V. Moustakides, E.Z. Psarakis, **Maximal correlation: An alternative criterion for training generative networks**, Proceedings of the 24th European Conference on Artificial Intelligence, June 2020.
- [C73] G. Rovatsos, G.V. Moustakides, V.V. Veeravalli, **Quickest detection of an anomaly in a sensor network**, Proceedings of the 2019 Asilomar conference on Signals, Systems, and Computers, Nov. 2019.
- [C72] G.V. Moustakides, F. Salib, K. Basioti, **Adaptive blind separation of two dependent sources**, Proceedings of the 2019 Allerton conference, pp. 1128-1135, Sep. 2019.
- [C71] L. Xie, Y. Xie, G.V. Moustakides, **Asynchronous multi-sensor changepoint detection for seismic tremors**, Proceedings of the IEEE International Symposium on Information Theory, Paris, France, July 2019.
- [C70] G.V. Moustakides, **Detecting changes in hidden Markov models**, Proceedings of the IEEE International Symposium on Information Theory, Paris, France, July 2019.
- [C69] L. Xie, G.V. Moustakides, Y. Xie, **First-order optimal sequential subspace change-point detection**, Proceedings of the 6th IEEE Global Conference on Signal and Information Processing, Anaheim, California, USA, Nov. 2018.
- [C68] J.G. Ligo, G.V. Moustakides, V.V. Veeravalli, **Sparse Gaussian mixture detection: Low complexity, high performance tests via quantization**, Proceedings of the IEEE International Symposium on Information Theory, Aachen, Germany, June 2017.
- [C67] G.V. Moustakides, T. Yaacoub, Y. Mei, **Sequential estimation based on conditional costs**, Proceedings of the IEEE International Symposium on Information Theory, Aachen, Germany, June 2017.
- [C66] G. Fellouris, G.V. Moustakides, V.V. Veeravalli, **Multistream quickest change detection: Asymptotic optimality under a sparse signal**, Proceedings of the 42nd IEEE International Conference on Acoustic, Speech and Signal Processing, ICASSP-2017, New Orleans, USA, March 2017.
- [C65] J.G. Ligo, G.V. Moustakides, V.V. Veeravalli, **Detection of sparse mixtures: The finite alphabet case**, Proceedings of the 50th Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA, Nov. 2016.

- [C64] G.V. Moustakides, **How to capture a stopping time: The independent case**, Proceedings of the 50th Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA, Nov. 2016.
- [C63] G.V. Moustakides, V.V. Veeravalli, **Sequentially detecting transitory changes**, Proceedings of the IEEE International Symposium on Information Theory, Barcelona, Spain, July 2016.
- [C62] J.G. Ligo, G.V. Moustakides, V.V. Veeravalli, **Rate analysis for detection of sparse mixtures**, Proceedings of the 41st IEEE International Conference on Acoustic Speech and Signal Processing, Shanghai, China, March 2016.
- [C61] G.V. Moustakides, **Optimum Shewhart tests for Markovian data**, Proceedings of the 53rd Annual Allerton Conference on Communication, Control and Computing, pp. 822-826, Sept. 2015.
- [C60] A. Dobson, G.V. Moustakides, K.E. Bekris, **Geometric probability results for bounding path quality in sampling-based roadmaps after finite computation**, Proceedings of the IEEE International Conference on Robotics and Automation, Seattle, Washington, May 2015.
- [C59] W. Zhang, G.V. Moustakides, H.V. Poor, **Opportunistic detection rules**, Proceedings of the IEEE International Symposium on Information Theory, Honolulu, Hawaii'i, June 2014.
- [C58] P. Niavis, G.V. Moustakides, **Unbiased adaptive system identification for correlated input and noise**, Proceedings of the 21st European Signal Processing Conference, Morocco, Sept. 2013.
- [C57] Y. Yilmaz, G.V. Moustakides, X. Wang, **Optimal sequential parameter estimation**, Proceedings of the IEEE International Symposium on Information Theory, Constantinople, Turkey, July 2013.
- [C56] Y. Yilmaz, G.V. Moustakides, X. Wang, **Sequential decentralized detection under noisy channels**, Proceedings of the 50th Annual Allerton Conference on Communication, Control, and Computing, Oct. 2012.
- [C55] Y. Yilmaz, G.V. Moustakides, X. Wang, **Spectrum sensing via event-triggered sampling**, Proceedings of the Asilomar Conference on Signals, Systems and Computers, Pacific Grove, Nov. 2011.
- [C54] G.V. Moustakides, **Optimum joint detection and estimation**, Proceedings of the IEEE International Symposium on Information Theory, ISIT'2011, Saint Petersburg, Russia, pp. 2915-2919, July-Aug. 2011.
- [C53] G. Fellouris, G.V. Moustakides, Y. Mei, **Epidemic detection using CUSUM**, Proceedings of the 5th International Workshop on Applied Probability, IWAP'2010, Madrid, Spain, July 2010.
- [C52] A. Tajer, G.H. Jajamovich, X. Wang and G.V. Moustakides, **Finite-sample optimal joint target detection and parameter estimation by MIMO radars**, Proceedings of the 2009 Asilomar Conference on Signals, Systems, and Computers, Pacific Grove, CA, USA, Nov. 2009.
- [C51] A. Tajer, G.H. Jajamovich, X. Wang, G.V. Moustakides, **"Optimal target detection with unknown parameters by MIMO radar"**, Proceedings of the 2009 IEEE Military Communications Conference, MILCOM'2009, Boston, MA, USA, Oct. 2009.
- [C50] G.V. Moustakides, **Change-time models and performance measures for sequential change detection**, Proceedings of the 2nd International Workshop on Sequential Methodologies, IWSM'2009, Troyes, France, 2009.
- [C49] G. Fellouris, G.V. Moustakides, **Decentralized sequential hypothesis testing in discrete time**, Proceedings of the 2nd International Workshop on Sequential Methodologies, IWSM'2009, Troyes, France, 2009.
- [C48] A.G. Tartakovsky, A.S. Polunchenko, G.V. Moustakides, **Design and comparison of Shiryaev-Roberts and CUSUM-type change-point detection procedures**, Proceedings of the 2nd International Workshop on Sequential Methodologies, IWSM'2009, Troyes, France, 2009.
- [C47] G. Fellouris, G.V. Moustakides, **Asymptotically optimum tests for decentralized change detection**, Proceedings 4th International Workshop on Applied Probability, IWAP'2008, Compiègne, France, July 2008.
- [C46] G. Fellouris, G.V. Moustakides, **Asymptotically optimum tests for decentralized sequential testing in continuous time**, Proceedings 11th IEEE International Conference on Information Fusion, Fusion'2008, Cologne, Germany, June-July 2008.
- [C45] A.A. Cardenas, G.V. Moustakides, J.S. Baras, **On the optimality of spread spectrum watermarking against Gaussian attacks**, Proceedings IEEE International Conference on Image Processing, ICIP'2007, vol. IV, pp. 449-452, San Antonio, Texas, US, Sept. 2007.
- [C44] A.A. Cardenas, G.V. Moustakides, J.S. Baras, **Towards optimal design of data hiding algorithms against nonparametric adversary models**, Proceedings 41st Conference on Information Sciences and Systems, CISS'2007, pp. 911-916, Baltimore, March 2007.
- [C43] G.V. Moustakides, V. Verykios, **A max-min approach for hiding frequent itemsets**, Proceedings 6th International Conference on Data Mining Workshops, ICDM'2006, Workshop on Privacy Aspects of Data Mining, PADM'2006, pp. 502-506, Hong Kong, Dec. 2006.
- [C42] M. Rabi, G.V. Moustakides, J.S. Baras, **Multiple sampling for estimation on a finite horizon**, Proceedings 45th IEEE Conference on Decision and Control, CDC'2006, San Diego, USA, pp. 1351-1357, Dec. 2006.
- [C41] S. Radosavac, G.V. Moustakides, J.S. Baras, **Impact of the optimal MAC layer attacks on the network layer**, Proceedings 4th ACM Workshop on Security of Ad Hoc and Sensor Networks, SASN'2006, pp. 135-145, Alexandria, VA, USA, Oct. 2006.

- [C40] G.V. Moustakides, **Decentralized CUSUM change detection**, Proceedings 9th IEEE International Conference on Information Fusion, Fusion'2006, Florence, Italy, July 2006.
- [C39] M. Rabi, J.S. Baras, G.V. Moustakides, **Efficient sampling for keeping track of an Ornstein-Uhlenbeck process**, Proceedings 14th Mediterranean Conference on Control and Automation, Ancona, Italy, June 2006.
- [C38] X. Doukopoulos, G.V. Moustakides, **The fast data projection method for stable subspace tracking**, Proceedings 13th European Signal Processing Conference, EUSIPCO'2005, Antalya, Turkey, Sept. 2005.
- [C37] O. Hadjiliadis, G.V. Moustakides, **Optimal and asymptotically optimal CUSUM rules for detecting a regime change in the Brownian Motion model with multiple alternatives**, Proceedings Joint Statistical Meeting, JSM'2004, Quality Control section, Toronto, Canada, Aug. 2004.
- [C36] X. Doukopoulos, G.V. Moustakides, **Adaptive algorithms for blind channel estimation in OFDM systems**, Proceedings IEEE International Conference on Communications, ICC'2004, vol. 4, pp. 2377-2381, Paris, June 2004.
- [C35] V.S. Verykios, G.V. Moustakides, **A generalized cost optimal decision model for record matching**, Proceedings Workshop on Information Quality in Information Systems, IQIS'2004, pp. 20-26, Paris, June 2004.
- [C34] X. Doukopoulos, G.V. Moustakides, **Power techniques for blind adaptive channel estimation in CDMA systems**, Proceedings IEEE Global Communications Conference, GLOBECOM'2003, vol. 4, pp. 2330-2334, San Francisco, Dec. 2003.
- [C33] X. Doukopoulos, G.V. Moustakides, **Blind channel estimation for downlink CDMA systems**, Proceedings IEEE International Conference on Communications, ICC'2003, vol. 4, pp. 2416-2420, Alaska, May 2003.
- [C32] L. Noirié, F. Cerou, G.V. Moustakides, O. Audouin, P. Peloso, **New transparent optical monitoring of the eye and BER using asynchronous under-sampling of the signal**, Proceedings 28th European Conference on Optical Communications, ECOC'2002, vol. 5, pp. 1-2, Copenhagen, Denmark, Sept. 2002.
- [C31] G.V. Moustakides, F. Cerou, O. Audouin, L. Noirié, **Eye diagram reconstruction using asynchronous imperfect sampling, application to BER estimation for fiber-optic communication systems**, Proceedings 11th European Signal Processing Conference, EUSIPCO'2002, vol. III, pp. 375-378, Toulouse, France, Sept. 2002.
- [C30] E. Psarakis, G.V. Moustakides, **Closed form expressions for optimum FIR polynomial predictive filtering**, Proceedings 11th European Signal Processing Conference, EUSIPCO'2002, vol. II, pp. 195-198, Toulouse, France, Sept. 2002.
- [C29] G.V. Moustakides, **Performance of CUSUM tests for detecting changes in continuous time processes**, Proceedings IEEE International Symposium on Information Theory, IEEE ISIT'2002, pp. 186, Laussane, Switzerland, July 2002.
- [C28] G.V. Moustakides, **Optimum adaptive blind source separation algorithms**, Proceedings IEEE International Conference on Acoustic Speech and Signal Processing, IEEE ICASSP'2002, vol. 2, pp. 1645-1648, Orlando, Florida, USA, May 2002.
- [C27] G.V. Moustakides, **Decision directed algorithms for multiuser detection**, Proceedings IEEE International Symposium on Information Theory, IEEE ISIT'2001, pp. 8, Washington DC, USA, June 2001.
- [C26] S.A. Kassam, Y. Zhang, G.V. Moustakides, **Some results on a BSS algorithm under non-standard conditions**, Proceedings 33rd Annual Conference on Information Sciences & Systems, pp. 385-390, Johns Hopkins University, Baltimore, Maryland, March 1999.
- [C25] G.V. Moustakides, H.V. Poor, **On the relative error probabilities of linear multiuser detectors**, Proceedings 36th Annual Allerton Conference on Communications Control and Computing, pp. 421-430, Sept. 1998.
- [C24] G.V. Moustakides, **Exponential convergence of adaptive algorithms**, Proceedings IEEE International Symposium on Information Theory, ISIT'98, pp. 262, MIT, Boston, USA, Aug. 1998.
- [C23] E. Dimas, E. Psarakis, D. Briassoulis, G.V. Moustakides, **Three-dimensional acquisition and NURBS-based geometric modeling of natural objects**, Proceedings 4th International Conference on Computational Structures Technology, CST'98, Edinburgh, Aug. 1998, in Advances in Engineering Computational Technology, pp. 301-310, (ed B.H.V. Topping), Civil-Comp Press.
- [C22] E.Z. Psarakis, G.V. Moustakides, **Acceleration of the Remez exchange algorithm for the design of L_∞ optimum FIR filters**, Proceedings 13th International Conference on Digital Signal Processing, Santorini, vol. 2, pp. 1063-1066, Greece, July 1997.
- [C21] E.Z. Psarakis, G.V. Moustakides, **An L_2 based method for the design of one dimensional FIR digital filters**, Proceedings 3rd IEEE International Conference on Electronics, Circuits and Systems ICECS'1996, vol. 1, pp. 267-270, Rhodes, Greece, Oct. 1996.
- [C20] G.V. Moustakides, **Performance of the forgetting factor RLS during the transient phase**, Proceedings IEEE Digital Signal Processing Workshop, pp. 370-373, Loen, Norway, Sept. 1996.
- [C19] A. Liavas, G.V. Moustakides, G. Henning, E.Z. Psarakis, P. Husar, **On the detection of steady state visually evoked potentials**, Proceedings 18th Annual International Conference of the IEEE Engineering in Medicine and Biology, vol. 3, pp. 946-947, Netherlands, Sept. 1996.

- [C18] S. Theodoridis, G.V. Moustakides, K. Berberidis, **A fast adaptive algorithm for multichannel system identification: application to DFE**, Proceedings 7th European Signal Processing Conference, EUSIPCO'1994, pp. 728-731, Edimbourg, England, Sept. 1994.
- [C17] G.V. Moustakides, **Efficacy of adaptive signal processing algorithms**, Proceedings IEEE International Symposium on Information Theory, IEEE ISIT'1994, pp. 125, June 1994.
- [C16] G. Iwanowa, G. Henning, W. Müller, G.V. Moustakides, **Automatic detection of visual evoked potentials - an urgent necessity for objective perimetric investigations**, Proceedings 15th Annual International Conference of the IEEE Engineering in Medicine and Biology, pp. 1387-1388, San Diego, Oct. 1993.
- [C15] P.P. Mavridis, G.V. Moustakides, **Analysis of discrete time server queues with bursty Markovian inputs**, Proceedings International Conference on Advances in Communications and Control, Rhodes, Greece, June 1993.
- [C14] G.V. Moustakides, K. Berberidis, **New LS and SVD based methods for estimation of frequencies of complex sinusoids**, Proceedings IEEE International Symposium on Circuits and Systems, ISCAS'1993, vol. 1, pp. 451-454, Chicago, Illinois, May 1993.
- [C13] A. Brikou, G.V. Moustakides, A. Bezerianos, P. Papathanasopoulos, **Adaptive identification of visual evoked potentials, application to multiparametric stimulation**, Proceedings MEDICON'1992 Conference, vol. 1, pp. 129-132, Capri, Italy, July 1992.
- [C12] S. Theodoridis, G.V. Moustakides, **A novel class of fast adaptive algorithms for multichannel filtering**, Proceedings 5th European Signal Processing Conference, EUSIPCO'1990, Barcelona, Spain, Sept. 1990.
- [C11] A.P. Varvitsiotis, S. Theodoridis, G.V. Moustakides, **A novel structure for adaptive LS FIR filtering based on QR decomposition**, Proceedings International Conference on Acoustics, Speech and Signal Processing, ICASSP'1989, vol. 2, pp. 904-907, May 1989.
- [C10] Benveniste, M. Basseville, G.V. Moustakides, **Modeling and monitoring of changes in dynamical systems**, Proceedings IEEE Conference on Decision and Control, IEEE CDC'1986, vol. 2, pp.776-782, Athens, Greece, Dec. 1986.
- [C9] M. Basseville, A. Benveniste, G.V. Moustakides, A. Rougée, **Optimal sensor location for detecting changes in dynamical behavior**, Proceedings IEEE Conference on Decision and Control, IEEE CDC'1986, vol. 2, pp. 1058-1063, Athens, Greece, Dec. 1986.
- [C8] M. Basseville, A. Benveniste, G.V. Moustakides, A. Rougée, **Detection and diagnosis of changes in the eigenstructure of nonstationary multivariable systems**, Proceedings 2nd IFAC Workshop on Adaptive Systems in Control and Signal Processing, pp.7-12, Lund, Sweden, July 1986.
- [C7] M. Basseville, A. Benveniste, G.V. Moustakides, A. Rougée, **Detection of abrupt changes in the modal characteristics of nonstationary vector signals**, Proceedings 7th International Symposium on the Mathematical Theory of Networks and Systems, pp. 537-547, Stockholm, Sweden, June 1985.
- [C6] M. Basseville, A. Benveniste, G.V. Moustakides, A. Rougée, **Detection and diagnosis of changes in the vibrating characteristics of a structure subject to nonstationary unknown excitation**, Proceedings IEEE Symposium on Information Theory, ISIT'1985, Brighton, UK, June 1985.
- [C5] M. Basseville, A. Benveniste, G.V. Moustakides, A. Rougée, **Detection and diagnosis of changes in the AR part of an ARMA model with nonstationary unknown MA coefficients**, Proceedings 4th Vilnius Conference on Probability theory and mathematical statistics, pp. 119-122, Vilnius, Lithuania, June 1985.
- [C4] G.V. Moustakides, J.B. Thomas, **Min-max detection of weak signals in stationary Markov processes**, Proceedings 20th Annual Allerton Conference on Communications Control and Computing, pp. 713-722, Monticello, IL, Oct. 1982.
- [C3] G.V. Moustakides, S.A. Kassam, **Minimax robust equalization for random signals through uncertain channels**, Proceedings 20th Annual Allerton Conference on Communications Control and Computing, pp. 945-954, Monticello, IL, Oct. 1982.
- [C2] S.A. Kassam, G.V. Moustakides, J.G. Shin, **Robust detection of known signals in asymmetric noise**, Proceedings 18th Annual Allerton Conference on Communications Control and Computing, Monticello, IL, Oct. 1980.
- [C1] G.V. Moustakides, S.A. Kassam, **Robust Wiener filters for correlated signal and noise**, Proceedings Princeton Conference on Information Sciences and Systems, pp. 308-313, March 1980.

arXiv (Work not published elsewhere)

- [A9] G.V. Moustakides, **Data-driven estimation of conditional expectations, application to optimal stopping and reinforcement learning**, arXiv: 2407.13189, July 2024.
- [A8] X. Liu, O. Milenkovic, G.V. Moustakides, **A combinatorial proof for the secretary problem with multiple choices**, arXiv: 2303:02361, March 2023.
- [A7] K. Basioti, G.V. Moustakides, **Image de-quantization using generative models as priors**, arXiv: 2007.07923, July 2020.
- [A6] K. Basioti, G.V. Moustakides, **Image restoration from parametric transformations using generative models**, arXiv: 2005.14036, May 2020.

- [A5] K. Basioti, G.V. Moustakides, [Designing GANs: A likelihood ratio approach](#), arXiv: 2002.00865, Feb. 2020.
- [A4] G.V. Moustakides, K. Basioti, [Training neural networks for likelihood/density ratio estimation](#), arXiv: 1911.00405, Nov. 2019.
- [A3] K. Basioti, G.V. Moustakides, [Optimizing shallow networks for binary classification](#), arXiv: 1905.10161, May 2019.
- [A2] K. Basioti, G.V. Moustakides, E.Z. Psarakis, [Kernel-based training of generative networks](#), arXiv: 1811.09568, Nov. 2018.
- [A1] G.V. Moustakides, [Finite sample-size optimality of GLR tests](#), arXiv: 0903.3795, Nov. 2009.

Discussion Articles

- [D1] A.G. Tartakovsky, G.V. Moustakides, [Discussion on "Quickest detection problems: Fifty years later" by Albert N. Shiryaev](#), Sequential Analysis, vol. 29, no. 4, pp. 386-393, Oct. 2010.

Editorials

- [E2] Y. Xie, V. Tan, M. Wang, V.V. Veeravalli, G.V. Moustakides, C. Szepesvari, Z. Wen, (Guest Editors), Special Issue on: [Sequential, active, and reinforcement learning](#), IEEE Journal on Selected Areas in Information Theory, Oct. 2020.
- [E1] K. Berberidis, B. Champagne, G.V. Moustakides, H.V. Poor, P. Stoica, (Guest Editors), Special Issue on: [Advances in subspace-based techniques for signal processing and communications](#), EURASIP Journal on Applied Signal Processing, vol. 2007.

Work in Progress

- [W3] G.V. Moustakides, [Neural networks vs Lebesgue mappings](#), to be submitted to arXiv (probably not to any journal).
- [W2] G.V. Moustakides, [Data-driven parameter estimation](#), to be submitted to the IEEE Transactions on Information Theory.
- [W1] G.V. Moustakides, [Shewhart and CUSUM tests: The Markovian case](#), to be submitted to the Annals of Statistics.

Patents

- [P2] Y. Yilmaz, X. Wang, G.V. Moustakides, [Methods, systems, and media for determining whether a signal of interest is present](#), sponsored by Columbia University, New York, USA. United States publication number: WO2013134714 A1, Sep 2013.
- [P1] INRIA: A. Benveniste, F. Cerou, G.V. Moustakides; ALCATEL: O. Audouin, M. Manzanedo, L. Noire, D. Penninckx, [Method for measuring the error rate of an optical transmission system and apparatus for implementing the method](#). United States Patent Number: 6,744,496 B2, June 2004. Also: [Optical transmission system error rate measurement method and apparatus for carrying out this method](#), sponsored by Alcatel, France. European Publication Number: EP1311078, Dec 2005.