

Curriculum Vitae

Miodrag Lovric



CONTACT DETAILS:

Address: 13 Porecka, Belgrade, Serbia, Europe

Home Phone: (++381) 11 2753–225

Mobile: (++381) 63–883–5069

Email Address: mlovric@kg.ac.rs

Citizenship: New Zealand

QUALIFICATION HIGHLIGHTS

- ◆ Over twenty years of university teaching experience in the field of applied and theoretical Statistics.
- ◆ A significant number of research projects and published papers in the field of applied and theoretical statistics, and applied computer sciences.
- ◆ Experience and keen interest in tertiary teaching, online education, including preparation and delivery of lectures and seminars, conduct of tutorial classes, course co-ordination and development of course materials
- ◆ Skills in planning, coordinating and supervising projects.
- ◆ Industrious, responsible and adaptable; enjoying the challenges of new projects.
- ◆ Excellent working relations with co-workers from different ethnic groups.

AREA OF SPECIALISATION

Statistical science, Philosophy of statistical inference, Bayesian vs. frequentists controversy, Hypothesis testing, History of statistics, Statistics education, Statistics software, Efficiency of statistical tests (asymptotic and empirical), Nonparametric tests for location and dispersion, Robustness of statistical tests, Statistical computing and Simulation techniques, *Everything that can revive interest in statistics education in developing countries and rise stature of statisticians worldwide.*

BROADER INTERESTS

Resampling statistics, Design and analysis of sample surveys, Multiple comparisons, Behrens-Fisher's problem, Database design, Data mining.

RECENT PROJECTS AND ACCOMPLISHMENTS

1. I was nominated for the **2013 Nobel Peace Prize** by the Provost (Rector) of the Wayne State University, USA, several senators from Michigan, Rector (Chancellor) of the Hyderabad University, India, President of Bosnia and President of Republic of Srpska.
2. I was nominated to become a Fellow of the **European Academy of Science**,
3. I was nominated for the 2012 **Abel Prize** by one of the most eminent world statisticians.
4. I was nominated for the 2011 and 2012 **Nobel Peace Prize** from three countries (Spain, Serbia and Bosnia). I am the **first scientist from Serbia and former Yugoslavia ever who was nominated for the Nobel Prize**. Nikola Tesla was nominated in 1915 but his nomination was cancelled. According to the nomination letter **I am the first statistician ever who was nominated for the Nobel and Abel Prize in the same year.**
5. My International Encyclopedia of Statistical Science was called "the Bible of Statistics and Probability" and "the finest and best priced statistics encyclopedia available" (at amazon.com).
6. I was selected as the Managing Editor of **StatProb**, the free online encyclopedia sponsored by **ten leading statistics and probability societies** (<http://statprob.com/?op=about>)
7. I was elected a Member of the Editorial Board for the new international journal: Global Journal of Mathematical Sciences(GJMS) (URL: <http://www.ifnaworld.org/ojs/index.php/GJMS>).
8. My encyclopedia was acknowledged as the **largest international scientific project ever conducted in history** (AMSTAT NEWS, May 2011 edition, page 14 HTTP: <http://magazine.amstat.org/wp-content/uploads/2011an/MAY2011.pdf>). The cover article "Peace Through Statistics" was completely devoted to my encyclopedia and it attracted the record number of views compared to all other articles in the Amstat News (over 10000 views).
9. Upon the request from the American Statistical Association, I wrote a report for the Accreditation of the well known professor in statistics (who was a mentor for 105 doctoral theses) from Michigan (as a second member of the committee).
10. I was asked personally by the President of the Royal Statistical Society to make a nomination for the Guy Gold Medal.
11. Professor CR Rao invited me to Hyderabad, India, to give a speech "The Future of Statistics" on the first World Statistics Day (October 20, 2011) and to chair that conference (Although WSD was celebrated in over 130 countries, if one types "world statistics day photo" in Google, among the 330 million listed results, the top ranked one is my homepage with the photographs from the conference).
12. Following the recommendation of Sir David Cox and Japanese biostatisticians, I gave an invited speech in Kobe at the 26-th international biometric conference, in August 2012.

13. I was the team leader for the organisation of the integral statistics system for the most important Serbian insurance company "Dunav".
14. I was asked to nominate a professor from a state University in Chile for the Medal of Science, highest scientific medal awarded by the Government of Chile.
15. University of Malta invited me to give several lectures for their students and to deliver a public speech "Future of statistics in the knowledge economy" in April, last year.
16. In 2011 I was an Advisory Review Board member for the international conference titled "The World Conference on Financial Crisis and its effects" held in Turkey.
17. Springer invited me to write a book titled "Controversies in statistical hypothesis testing"
18. I was elected as a Member of the Panel of examiners for PhD and as an evaluator of potential candidates for higher posts in Statistics, Bahauddin Zakariya University, Multan, Pakistan. In 2012 I was elected as a second (external) member of the committee for the defence of the doctoral dissertation in statistics titled "Flood Frequency Analysis of River Systems of Pakistan, Using L-moments"
19. I was elected as **President of the International Federation of Nonlinear Analysts (Serbian Branch)**.
20. At the request of the University of Botswana I became the second member of the selection committee for the promotion of the associate professor to the level of full professor in statistics.
21. At the University of the West Indies, in Trinidad and Tobago, I was elected a professor for the external evaluation and management of quality exams in two subjects (regularly via DHL I receive student papers and give comments and re-marks)

TEACHING AND PROFESSIONAL EXPERIENCE

2008 to Present	Full Professor of Statistics , Faculty of Economics, University of Kragujevac
2002 to 2008	Full Professor of Statistics , Faculty of Economics, University of Belgrade
1998 to 2002	Lecturer, Level B School of Mathematics, University of South Australia Subject Coordinator for: <i>Statistical Analysis in Business</i> (1000 students, 200 of them on-line) <i>Statistics & Computing 101</i> (200 students, majoring in pharmacy, chemistry, and biology) Statistics 1B (for the science students) Lecturer for Analytical Techniques (Statistics for the Engineering students)
1996 to 1998	Senior Lecturer School of Business & Information Systems, Wellington Polytechnic, New Zealand Courses at the degree level: <ul style="list-style-type: none"> ◇ Information Gathering & Research (lecturing of the statistics module) ◇ Systems and Quality Assurance (course convener) ◇ Computing Applications (conduct of tutorials)

Courses at the diploma level:

- ◇ Program Development (PD100)
- ◇ Programming Principles (PP100)
- ◇ Fourth Generation Languages (FG200)
- ◇ Data Analysis (DA200)

1995 to 1996

Lecturer

Faculty of Commerce,
The Open Polytechnic of New Zealand

- ◇ Delivery of “distance learning “courses:
- ◇ Computer Concepts
- ◇ Data Organization and Control
- ◇ Applied statistics

1993 - 1994

Associate Professor in Statistics

Department of Mathematics and Statistics
(32 staff members)

Faculty of Economics, University of Belgrade, Yugoslavia

STATISTICAL CONSULTING

During my academic career I have gained extensive experience in statistical consulting through my involvement with different institutions and companies in former Yugoslavia, Serbia, and New Zealand, such as

- Ministry of Trade and Tourism,
- Ministry of Finance,
- Ministry of Internal Affairs,
- The Belgrade Stock Exchange Market,
- Dunav insurance company – the largest insurance firm in Serbia
- Telecom New Zealand (risk analysis and simulation in November 1998)
- Energoprojekt (one of the largest companies in former Yugoslavia, where I delivered a large number of courses in Excel, Quattro and Lotus).

I have also provided help for many economic, medical, pharmaceutical, and biology students and researchers.

SELECTED MOST RECENT PUBLICATIONS

(Classified and in reverse chronological order)

(a) BOOKS and Chapters in books

1. (2003-2010) "*International Encyclopedia of Statistical Science*", published in December 2010, (Editor-in-Chief, Springer, 617 distinguished contributors from 105 countries), ISBN 978-3-642-04897-5.

2. "*Statistical principles and their application in the pharmaceutical medicine*", in Milica Prostran (ed.) *Pharmaceutical medicine*, Medical faculty, Belgrade, (30 pages, May, 2010).
3. "*Methods of Statistical Analysis*", Faculty of Economics, Belgrade, (co-author with Dr. M. Zizic and Dr. D. Pavlicic), 2007. (This textbook is currently being used at five faculties in Serbia and Monte Negro)
4. "*Statistical Analysis – methods and application*", (first author), Faculty of Economics, Banja Luka, Bosnia, 2006. (This textbook is currently being used at five universities in Bosnia and includes CD with statistics software 3BStat)
5. "*The Foundation of Statistics*", Faculty of Economics, University of Kragujevac, 2012.
6. "*Methods of nonparametric statistical inference*", Faculty of Economics, Belgrade, 2006.

(b) SELECTED MOST RECENT PAPERS

1. Miodrag Lovrić, Marina Milanović, Milan Stamenković (2012). "*Time Series Data Mining: Similarity Search and its Empirical Demonstration*", TTEM - Technics Technologies Education Management, Bosnia, (Impact Factor: 0.351).
1. Miodrag M Lovric (2010). "From Finite Sample to Asymptotic Methods in Statistics by SEN, P.K., Singer, JM and Pedroso de Lima", A.C., Review of the book, *Biometrics*, Volume 66 (4), 1310-1311.
2. Miodrag M Lovric and Ashok Sahai (2011). "An Iterative Algorithm for Efficient Estimation of Normal Variance Using Sample Coefficient of Variation", *InterStat*, (ISSN 1941-689X).
3. Miodrag M Lovric, Ashok Sahai and Neeraj Tiwari (2011). "On an Iterative Algorithm for Sharpening Sathe's Upper and Lower Bounds on the Variance of UMVU Estimator in Inverse Sampling" *InterStat*, (ISSN 1941-689X)
4. Hossein Arsham and Miodrag Lovric (2010). "Bartlett's Test", *International Encyclopedia of Statistical Science*, Springer, Heidelberg.
5. Ashok Sahai and Miodrag Lovric (2010). "Role of Statistics", *International Encyclopedia of Statistical Science*, Springer, Heidelberg.
6. Abdulbari Bener and Miodrag Lovric (2010). "Variance", *International Encyclopedia of Statistical Science*, Springer, Heidelberg.
7. Oscar Sheynin and Miodrag Lovric (2010). "History of Statistics", *International Encyclopedia of Statistical Science*, Springer, Heidelberg.
8. Damir Kalpic, Nikica Hlupic and Miodrag Lovric (2010). "Student's t-Tests", *International Encyclopedia of Statistical Science*, Springer, Heidelberg.
9. "Note on the correct interpretation of the Central Limit Theorem", *British Medical Journal* site (2008).
10. Miodrag M Lovric and Jelena Kocovic (2004). "Risk management of the premiums in the non-life insurance" (co-author with Jelena Kocovic) *SYM-OP-IS*, Rudarsko-geoloski fakuletet, Belgrade, p. 547-550.

11. Miodrag M Lovric, Bruce Brown and Sonja Petrovic (2000). "A fuzzy approach to the personnel selection", (co-author with Bruce Brown and Sonja Petrovic), *Cybernetics and Systems*, Robert Trappl (ed), 234-239.

(c) SELECTED MOST RECENT CONFERENCE PROCEEDINGS

1. "The Future of Science from the Year 2012 Perspective", 5th International Conference, Science and Higher Education, in Function of Sustainable Development, Invited speech given at plenary session, Uzice, Serbia, 04-05 October, 2012.
2. "Motivation and experience in editing the International Encyclopedia of Statistical Science", IBC 2012 invited session (International Biometric Society), Kobe, Japan.
3. "The Future of Statistics", World Statistics Day, Invited speech, Hyderabad, India, 2010.
4. "New products in the insurance markets", Fifth International Actuarial Conference, Zlatibor, Serbia, 2008.
5. "Traditional and web-based course evaluations – comparison of their response rates and efficiency", International summer school organized by Statistics Sweden, Croatia, 2006. (www.balkanprojectoffice.scb.se/Paper%20Miodrag%20Lovrich_University%20of%20Belgrade.pdf)
6. "Application of some non-standard statistical methods in insurance", Third International Actuarial Conference, Vrnjacka Banja, Serbia, 2006.
7. "Normality testing of the data in insurance". First International Actuarial Conference, Zlatibor, Serbia, 2004.
8. "A fuzzy approach to the personnel selection", 15th European Meeting on Cybernetics and Systems Research", Vienna, April 2000 (co-author with Bruce Brown and Sonja Petrovic).
9. "Using the WWW in the Statistics Classroom - Advantages and Some Open Questions", New Zealand Statistical association 50th Anniversary Conference, 1999.

OTHER RELEVANT EXPERIENCE AND ACCOMPLISHMENTS

- ◇ Main Television studio in Kragujevac, Serbia, produced a short movie titled "[World Promotion of the Nobel Peace Prize nominated encyclopedia](#)", in which [10 eminent professors from all six continents are discussing the importance of my encyclopedia](#) (via video links), June 2011. (can be download from <http://www.ekfak.kg.ac.rs/sites/default/files/Download/mlovric/> (about 200 MBs).
- ◇ Designed, developed and implemented statistical software EduStat, and 3BStat (2003-2007). EduStat is currently in use in more than 30 faculties in this region and presented in many TV channels in Serbia . *Edustat can be downloaded for free from my web site.*
- ◇ Designed statistical system for "Dunav - the largest insurance company in Serbia (2006-2007)
- ◇ Designed and developed The New Zealand **Mixed Member Proportional** Election system for one of New Zealand's major political parties (September 1995 - April 1996)
- ◇ Designed and developed a reporting system for (Toyota) America's cup campaign (April 1995)
- ◇ Designed, developed and implemented the Lexus Customer Contact System in FoxPro 2.6 for Windows (March 1995)
- ◇ Constructed an invoicing system for Insight Data Ltd. in FoxPro 2.6 (January 1995)
- ◇ Developed a program for Real Estate Management in FoxPro 2.6 (November 1994)

- ◇ Developed a program for Toyota Direct Marketing in FoxPro 2.5 (August 1994)
- ◇ Established a software system for processing exams of part-time and full-time students and the Main Student Register at the Faculty of Economics, Belgrade (programming in FoxPro 2.5; 1993).
- ◇ Developed a complete payroll and credit system for the Faculty of Economics, Belgrade (by programming in FoxPro 2.0; 1991 - 1992).
- ◇ Delivered courses in the field of computer programs and programming for many important institutions and companies in former Yugoslavia. (Four elementary courses for FoxPro 2.0, two advance courses for programming in FoxPro 2.5, one advance course for programming in FoxPro 2.5 for Windows, courses for Excel 2.1, 3.0 and 4.0, Windows 2.1, 3.0 and 3.1, dBase IV, Symphony, DOS 6.2, Lotus 1-2-3).

EDUCATIONAL ATTAINMENT

Doctor of Statistical Sciences

(PhD thesis: Asymptotic efficiency of nonparametric tests based on ranks)
 University of Belgrade, Faculty of Economics,
 Department of Mathematics and Statistics

Master of Science in Statistics

(Master thesis: Testing statistical hypothesis by means of nonparametric tests, awarded as the best master thesis by the Chamber of Commerce, Belgrade, Serbia)
 Department of Mathematics and Statistics
 University of Belgrade, Faculty of Economics

(My qualification was officially recognized by the New Zealand Qualifications Authority and Josef Silny & Associates, Inc in the USA)

PROFESSIONAL MEMBERSHIP

Fellow of the Royal Statistical Society (elected in April 2010)
 Member of the Serbian Statistical Society
 Member of International Biometric Society

REFEREES

- ◇ Professor Joseph Hilbe
Adjunct Professor of statistics
Arizona State University
7242 W. Heritage Way
Florence, AZ 85232
USA
Tel.: (+1) 520 723-1368

E-mail: jhilbe@aol.com
Web site: <http://ssfd.clas.asu.edu/hilbe>, or
http://en.wikipedia.org/wiki/Joseph_Hilbe

- ◇ Professor Emeritus Venkatarama Krishnan
University of Massachusetts Lowell
1 Kristin Drive
Chelmsford 01824
USA
Tel: (+1) 978-56-6530

Email: Venkatarama_Krishnan@uml.edu
Web site: <http://home.comcast.net/~venkatarama.krishnan/>

- ◇ Professor CR Rao
Eberly Professor Emeritus of Statistics
Director, Centre for Multivariate Analysis
Pennsylvania State University
Adjunct Professor, University of Pittsburgh
Tel. (+1) 716-817-6465
E-mail: crr1@pssu.edu
Web site: <http://www.crraoaimscs.org/>
<http://stat.psu.edu/people/crr1>
<http://www.mapsofindia.com/who-is-who/science-technology/c-r-rao.html>