



### **Branko Urošević**

Member of the Presidency of the Serbian Academy of Nonlinear Sciences (SANS)

Born on Nov 8, 1964 in Belgrade, Socialist Federative Republic of Yugoslavia

#### **Education**

He completed primary school *Sveti Sava* in Belgrade (1979) and Mathematical Gymnasium in Belgrade (1983). He obtained BSc in Theoretical

Physics (String Theory) at the Moscow State University (Lomonosov), USSR in 1989, with the Diploma project completed at the Steklov Mathematical Institute (MIAN), a MSc in Theoretical Physics at Brown University, Providence, RI, USA (1991), a PhD in Physics from Brown University in 1995, and a PhD in Business Administration (Finance) at the U.C: Berkeley, Berkeley, CA, USA (2002).

#### **Academic and Scientific Appointments**

- Full Professor in Economics and Finance, School of Computing, Union University, Belgrade, Serbia (from 2021)
- Director, Master in Computational Finance (MCF), School of Computing, Union University, Belgrade, Serbia (from 2021)
- Member of the Council for Higher Education, Serbian Academy of Arts and Sciences (SANU) (from 2021)
- Fellow, CESifo Research Network, LMU, Munich, Germany (from 2019)
- Vice Chairman, National Council for Higher Education (main regulatory body for higher education) of the Republic of Serbia (2015-2018)
- Member of the European Economic Advisory Group, LMU, Munich, Germany (2015-2022)
- Member of the Board of Directors, Serbian Society of Academic Economics (2015-present)
- Member of the Serbian Academy of Nonlinear Sciences (SANS) (since 2015-present)
- Member of the European Economic Advisory Group, LMU, Munich, Germany (2015-2021)
- Full Professor, Finance and Operations Research, Faculty of Economics, University of Belgrade (2013-2021)
- Affiliate Member of CESifo Research Network, LMU, Munich, Germany (2013-2019)
- Associate Professor in Finance and Operations Research, Faculty of Economics, University of Belgrade (2009-2013)
- Assistant Professor in Finance and Operations Research, Faculty of Economics, University of Belgrade (2005-2009)
- Visiting Professor in Finance, ICEF, Higher School of Economics, Moscow, Russia (2010-2018)
- Assistant Professor in Finance, Department of Economics and Business, Universitat Pompeu Fabra, Barcelona (2002-2005)

- Program Director, International Master in Quantitative Finance, Faculty of Economics, University of Belgrade (since creation in 2003 till 2020)
- Program Co-Director, Master in Finance, Department of Economics and Business, Universitat Pompeu Fabra, Barcelona (2003-2005)
- Research and Teaching Assistant, Haas School of Business, University of California, Berkeley (1997-2002)
- Research and Teaching Assistant, Physics Department, Brown University (1991-1995)

## **Research interests**

Nonlinear optimization with applications in finance, Financial risk modeling, Derivatives pricing, Neural networks, Computational finance. Branko is one of the founders of Quantitative and Computational finance in the region of South East Europe.

## **Organizational work**

Branko is the Program Director of the Master in Computational Finance (MCF) program at the School of Computing (RAF) at Union University in Belgrade. This highly innovative program, created in December of 2020, is the first in the region that integrates world-class training in finance, computer science, data science and machine learning, and blockchain and fintech with the focus on their application in practice. The program is designed to serve as a hub where academics, innovative businesses and industry professionals co-create the educational process. Branko has previously created and led the IMQF program at the Faculty of Economics, University of Belgrade and co-directed the Master of Finance at Universitat Pompeu Fabra, Barcelona, Spain, both highly successful. From 2012 to 2019 he was the co-chairman of the annual Young Economists' Conference in Belgrade, the leading conference for junior economic researchers in Europe. He consulted central banks of Serbia and Armenia, and worked as a consultant at McKinsey & Co and KPMG in Chicago, IL He is the founder of company Financial Innovation Knowledge Solutions and a co-founder of company Hybrid Insight (in Serbia) and Yottaanswers.com (in the US).

## **Teaching and pedagogical experience**

### Graduate courses:

- Robust Portfolio Management (ICEF, Higher School of Economics)
- Computational Finance (Frankfurt School of Finance and Management)
- Financial Economics I (Universitat Pompeu Fabra)
- Discrete Models in Finance (Universitat Pompeu Fabra, Faculty of Economics, Belgrade)
- Finance in Continuous Time (Faculty of Economics, Belgrade)
- Market Risk Management (Faculty of Economics, Belgrade)
- Financial Derivatives (Faculty of Economics, Belgrade)
- Real Estate Investments (Faculty of Economics, Belgrade)
- Real Estate Finance (Universitat Pompeu Fabra)
- Advanced Corporate Finance (Faculty of Economics, Belgrade)

### Undergraduate courses:

- Financial Economics (Faculty of Economics, Belgrade)
- Corporate Finance II (Universtitat Pompeu Fabra)
- Advanced Corporate Finance (Faculty of Economics, Belgrade)
- Operations Research (Faculty of Economics, Belgrade)

As a summer lecturer at the Haas School of Business taught:

- Financial Management

Branko has supervised 7 PhD theses and 49 Master theses.

### **Recognitions and Awards**

- Graduate scholarship, Haas School of Business, University of California, Berkeley (1998-2002)
- Bank of America Fellowship, Haas School of Business, University of California, Berkeley (1997-1998)
- Graduate scholarship, Brown University (1991-1995)
- University Fellowship, Brown University (1990-1991)
- Best foreign student award by the Ministry of Higher Education of the USSR (1986, 1987)
- Fellowship of the Foundation for Development of Young Scientists and Artists of Serbia, (1987-1989)

### **Directing Scientific Projects**

- “Risks of financial institutions and markets in Serbia: microeconomic and macroeconomic analysis”, a project financed by the Ministry for Education and Science, Republic of Serbia (from 2010-2018)
- “Development of Financial and Mortgage Markets and Institutions in Serbia”, a project financed by the Ministry of Science and Technology, Republic of Serbia (from 2006-2010).
- Director of Belgrade Node, RICAFE 2 European Commission Project (a part of Framework Project 6), jointly with London School of Economics, University of Tilburg, University of Torino, Hebrew University and HEC Paris (2006–2009).

### **Key research results**

Branko has made a significant contribution in several areas of economics and finance and, in particular, in the dynamic theory of corporate ownership and incentives, and in the use of non-standard optimization algorithms for tackling nonconvex optimization in finance.

## Five selected papers

- Market risk management in a post-Basel II regulatory environment, (with M. Drenovak, V. Ranković, M. Ivanović и R. Jelić), **European Journal for Operations Research**, March 2017, Vol 257(3), pp- 1030-1044.
- Bankruptcy Risk Model and Empirical Tests” (with Boris Podobnik, Davor Horvatic, Alexander Petersen, and Eugene Stanley), **Proceedings of the National Academy of Sciences of the United States (PNAS)**, 2010, vol 107 (43), 18325-18331.
- “Overconfidence and market efficiency with heterogeneous agents” (with Diego Garcia and Francesco Sangiorgi). **Economic Theory**, 2007, 30, 313-336.
- “Optimal Ownership Policy by a ‘Large Shareholder’” (sa Peter DeMarzo). **Journal of Political Economy**, 2006, 114(4), 774-815.
- “Static Mean-Variance Analysis with Uncertain Time Horizon” (sa Lionel Martellini). **Management Science**, 2006, 52(6), p. 955-964.