

# CV of Béla Vizvári

**Citizenship:** Hungarian

## Academic Degrees

**M.Sc.** University of Budapest, mathematics/operations research, 1973.

### PhD:

1. University of Budapest, 1979, mathematics/operations research. The title of the thesis "Lagrange Multipliers in Integer Programming" (in Hungarian)
2. Technical University of Merseburg/GDR, dr.sc.nat., 1987, mathematics. The title of the thesis "Contributions to the Frobenius Problem" (in German)

### Dr. habil.

Eötvös Loránd University, Budapest, Hungary, 2003.

## Positions

- (a) Department of Industrial Engineering, Eastern Mediterranean University, Gazi Mağusa, TRNC, 2007-
- (b) visiting professor, Fall 2013, Department of Differential Equations, Budapest University of Technology and Economics.
- (c) Department of Operations Research, Eötvös Loránd University, Budapest, Hungary, 1993-2007.
- (d) Director of Institute of Mathematics I of Eötvös Loránd University, 2004-2005. ,
- (e) visiting professor at Rutgers Center of Operations Research, Rutgers University, New Jersey, USA, 1994-1995.
- (f) Department of Industrial Engineering, Bilkent University, Ankara, Turkey, 1989-1993
- (g) Computer and Automation Institute of the Hungarian Academy of Sciences, 1973-1989.

## Teaching Experiences

### Department of Industrial Engineering, Eastern Mediterranean University 2007-:

Graduate courses: Optimization Theory, Advanced Linear Programming, Integer and Discrete Programming, Non-Linear Optimization, Advances in Production and Inventory Systems, Network Flows, Supply Chain Management, Graduate Research Seminar I, Graduate Research Seminar II, Graduate Research Seminar III.

Undergraduate courses: Production Planning I, Production Planning II, Computational modeling in Industrial Engineering, Introduction to Industrial Engineering and Industrial Management, Operations Research II, supervisor of three PhD thesis (Sadegh Niroomand, 2013, Nima Mirzaei, 2013, Farhad Mousavi, 2015), seven MSc theses (Navid Hashemian, 2008, Orçun Ersayin 2009, Hajieh Jabbari, 2011, Sam Mosallaeipour, 2012, Morteza Karami, 2013, Mohammed Taghi Valipour Azizi, 2013, Behzad Shakeri 2016), and co-supervisor of one MSc thesis (Arash Hashemoghli, 2008)

### Department of Operations Research, Eötvös Loránd University of Budapest, 1973-1989 and 1993-:

Linear Programming (both undergraduate and graduate), Discrete Optimization, Operation Research, Selected Topics of the Philosophy of Mathematics, Scheduling Theory, Network Flows and Data Structures, Game Theory, Theory of Industrial Organization, Introduction to Logistics, Production Control, Analysis of Markets, Microeconomics, Seminar on selected topics in the mathematics of economics, supervisor of approx. 70 MSc, and five PhD theses (Zsuzsanna Bacsi, 1997, Gergely Kovács, 2005, György Dósa (at The University of Szeged, Hungary), 2008, Attila Bernáth, 2009, Szabolcs Takács, 2014)

Department of Industrial Engineering, Bilkent University, 1989-1993 and 2003:

Linear Programming, Discrete Optimization, Network Programming, Linear Algebra, Advanced methods of Integer Optimization, Discrete Mathematics (undergraduate course), Combinatorics and Graph Theory (undergraduate course), Introduction to Industrial Engineering (undergraduate course), Calculus (undergraduate course), Theory of Machine Scheduling, Decision Analysis (undergraduate course for students of economics), supervisor of two MSc theses (Fatih Yilmaz, 1991. Hakan Özaktaş, 1992.)

RUTCOR, Rutgers University, 1994, 1999, and 2002:

Scheduling Theory.

Department of Measurement and Instrument Engineering, Technical University of Budapest, 1995

Chaos in Electronic Circuits, joint Ph.D. course with Michael Peter Kennedy (University College Dublin), and Géza Kolumbán (Technical University of Budapest).

Department of Differential Equations, Technical University of Budapest, 2013, Models of operations research (undergraduate), Integer programming (graduate).

## **Projects**

1. Optimization of stone transportation, the project was made for the Hungarian company named Utröszt, 1973-74.
2. The Production Control of the Cold Rolling Mill of the Danubian Steel Works, 1975-1981.
3. Consultant in the Danubian Steel Works, topic: computer control of the maintenance activity, 1988-1989.
4. Scheduling of the personnel in call centers, 2005.
5. Scheduling of the production and inventory control in a china manufactory, 2005.
6. Application of linear programming in software engineering, 2006.
7. (with Assist. Prof. Dr. Gökhan İzbirak) Recent and Future Trends on the Car Market of TRNC, 2008, Type A project.

## **Professional Activities**

1. Expert of the Committee for the Optimization of Manufacturing Processes of the National Foundation for Scientific Research of Hungary, 1977-1979.
2. Managing editor of Periodica Mathematica Hungarica 1989-1995.
3. Reviewer of Mathematical Reviews. 1980-1995.
4. Referee of Discrete Mathematics, Discrete Applied Mathematics; Optimization; Periodica Mathematica Hungarica; Annals of Operations Research; European Journal of Industrial Engineering; Mathematical Method of Operations Research; Acta Univ. Sapientiae, Informatica; PUre Mathematics and Applications (P.U.M.A); Alkalmazott Matematikai Lapok (Applied Mathematical Letters); Sigma, IEEE Transactions on Systems and Circuits; Number Theory.

5. Referee of the National Foundation for Scientific Research of Hungary, since 1993.
6. Referee of the Ministry of Culture and Education of Hungary, since 1995.
7. Member of the Editorial Board of P<sub>U</sub>re Mathematics and Applications (P<sub>U</sub>.M.A.), 1998-
8. Member of the Council of the Faculty of Natural Sciences (Eötvös University of Budapest), 2000-2006.
9. Member of the Council of the Institute of Mathematics No. 1. (Eötvös University of Budapest), 1997-2006.
10. Member of the Operations Research Committee of the Hungarian Academy of Sciences, 2000-
11. Managing editor of the Alkalmazott Matematikai Lapok (Applied Mathematical Letters), 2003-
12. Member of the Editorial Board of Szigma (Hungarian Journal of Mathematical Economics), 2003-

### **Invitations**

1. Annamalai University, India, 1987, 1 week.
2. University of Bergen, Norway, 1988, 1 week.
3. Rutgers University, New Brunswick, NJ, USA, 1990, 1 week.
4. Rutgers University, New Brunswick, NJ, USA, 1992, 1 week.
5. Rutgers University, New Brunswick, NJ, USA, 1994, 6 months.
6. Dresden University of Technology, Dresden, Germany, 1996, 1 month.
7. Martin-Luther University Halle-Wittenberg, Halle, Germany, 1996, 1 week.
8. Fachhochschule Merseburg, and Martin-Luther University Halle-Wittenberg, Halle, Germany, 1999, 1 week.
9. Rutgers University, New Brunswick, NJ, USA, 1999, 6 months.
10. Rutgers University, New Brunswick, NJ, USA, 2002, 4 months.
11. Bilkent University, Ankara, Turkey, 2003, 2 months.
12. Rutgers University, New Brunswick, NJ, USA, 2004, 1 month, and 2 and half months.
13. Rutgers University, New Brunswick, NJ, USA, 2009, 1 week.
14. Corvinus University, Budapest, Hungary, 2011, PhD defense.

### **Grants**

1. Analysis and Design of Chaotic Electronic Circuits, principal investigator, granting by the Hungarian Ministry of Education and Culture, 1994-1995, Grant No. MKM 209/94.
2. Introducing State-of-the-Art Courses into the Operations Research - Statistics - Applied Mathematics PhD program, principal investigator, Granting by the Hungarian Ministry of Education and Culture, 1995-1996, Grant No. MKM 336/95.
3. Production Control of Flexible Manufacturing Systems, principal investigator, 1996, granting by Foundation for the Hungarian Higher Education, Grant No. AMFK 4327/96.
4. Models of Dynamic Economic Processes, principal investigator, granting by the Hungarian Ministry of Education and Culture, 1996-1997, Grant No. MKM 242/96.
5. Models of Dynamic Economic Processes, principal investigator, granting by Foundation for the Hungarian Higher Education, 1997, supplementary grant to MKM 242/96, Grant No. AMFK 197/96.
6. Stochastic Programming, principal investigator, granting by the Hungarian Academy of Sciences, 1999-2000.
7. Number Theory, principal investigator, Granting by Hungarian National Research Foundation, 1999-2002, grant No. T 029759
8. Market strategies based on product differentiation on the Hungarian food market, Granting by Hungarian National Research Foundation, 2005-2008, Grant No. T 049396
9. Solution and application of non-convex and discrete stochastic programming problems, granting by Hungarian National Research Foundation, 2004-2007, Grant No. T 047340

10. Recent and Future Trends on the Car Market of TRNC, granting by EMU

### **Awards**

1. Scientific Award of the Institute, Computer and Automation Institute of the Hungarian Academy of Sciences, 1982.
2. Scientific Award of the Institute, Computer and Automation Institute of the Hungarian Academy of Sciences, 1988.
3. Best Lecturer, Bilkent University, 1989/90 Fall.
4. Award of the Strategic Research Programs of the Hungarian Academy of Sciences, 1998.

### **Publications**

8 books (2 edited), 5 chapters in 5 different books, 92 papers in referred journals, 9 papers on issues of higher education, 30 papers in proceedings or CD's, 82 reports and other non-referred scientific writings, 16 papers in popular science, 7 papers on social science, 4 translations, 4 edited journal issues, around 700 independent references.