

Technical university of Liberec

**Assoc. Prof. RNDr. Miroslav Brzezina, CSc.**

Curriculum Vitae

Born: November 21, 1961, Český Těšín

Education:

1986 graduated from the Faculty of Mathematics and Physics of Charles University in Prague, rector's award, **RNDr.**

1992 **CSc. (Candidate of Science)**, field: mathematical analysis at the Faculty of Mathematics and Physics of Charles University in Prague

1994 habilitation at the Faculty of Education of VŠST Liberec, appointed **associate professor** of mathematics

Employment:

1986-1990 internal aspirant of science of MFF UK Prague

1986-1987 military service

1990-1993 Assistant Professor of Mathematics at the Faculty of Science of the University of Ostrava

1990-1992 study visit at the Universität Erlangen-Nürnberg, Germany, scholarship holder of the **Daimler-Benz Foundation**

1993-today member of scientific and pedagogical staff of the Department of Mathematics, Department of Numerical and applied mathematics, respectively.

Department of Applied Mathematics at FP TU in Liberec

2003 Faculty of Mathematics, University of Bielefeld (June-September 2003), guest professor within the DFG project

Academic functions:

1994 was appointed Head of the Department of Numerical and Applied Mathematics of FP TU in Liberec

1995-1996 Head of Department of Numerical and Applied Mathematics of FP TU in Liberec

2000-2005 Head of Laboratory for Mathematical Modelling of Technological Processes at KAP FP TU in Liberec

2008-2015 Dean of the Faculty of Education (since January 1, 2008 change of name to Faculty of Science, Humanities and Education) Technical University of Liberec

2016 – 2018 Vice-Dean of the Faculty of Science, Humanities and Education, Technical University of Liberec

2018-present Rector of the Technical University of Liberec

Professional activity: I deal professionally with mathematical analysis, especially with potential theory. Next, I deal with the issues of teaching mathematics and Internet use in teaching. Part of my work also covers statistics (with co-authors). Further below is a selection of publications and major projects I participated in.

Kernels and Choquet capacities. *Aequationes Math.* **45** (1993), 89-99, ISSN 0001-9054, MR: 94b: 31010, ZBL: 778.31007.

Capacity interpretation of the Fulk's measure. *Exposition. Math.* **11** (1993), 469-474, ISSN 1058-6458, MR: 94k: 31010, ZBL: 801.31005.

Appell type transformation for the Kolmogor equation. *Math. Nachr.* **169** (1994), 59-67, ISSN 025-584X, MR: 95g: 35009, ZBL: 815.31003.

A note on the convexity theorem for mean values of subtemperatures. *Ann. Acad. Sci. Fenn. Ser. A1*

*Math.* **20** (1996), 111-115, ISSN 1239-629X, MR: 97c: 31013, ZBL: 851.31004.

Asymptotic Approximation of Bayes Risk of Estimators of Reliability for Exponentially Distributed Data (together with J. Antoch and A. Linka). *Statistics & Decisions* **15** (1997), 241--253, ISSN 0721-2631, MR: 99b: 62044, ZBL: 916.62021.

On the convexity theorem for the subharmonic functions with respect to Kolmogorov operator. *Potential Analysis* **15** (2001), 59-67, ISSN 0926-2601, MR: 2002c: 31005, ZBL: pre01687376.

A note on variability of interval data (together with J. Antoch and R. Miele). *Comput. State.* **25** (2010), 143-153.

Fourier series (together with J. Veselý). Teaching text. TU Liberec. 2013.

#### **Participation in project solutions / project investigator:**

Center for Quality and Reliability of Production. Ministry of Education, Youth and Sports no. 1M06047, 2006-2009.

Jaroslav Hájek Center for Theoretical and Applied Statistics. Ministry of Education, Youth and Sports no. LC06024, 2006-2009.

Support of technical and natural sciences, expert guarantor for teaching, MEYS, OPVK, 2009-2012. /

Laboratory for Mathematical Modelling of Processes, Project VS 97084 MEYS, 1997-2000.

Potential theory for degenerate parabolic type operators. Grant GAČR 201/98/0099, 1998-2000.

Mathematical modelling and optimization of technological processes, research plan no. MSM: 245100303, 1999-2003.

In Liberec, 20th September 2017