Curriculum vitae of Prof. Dezső Miklós

PERSONAL INFORMATION

Family name, First name:	Miklós, Dezső
Date of birth:	October 28, 1957
URL for web site:	http://www.renyi.mta.hu/~dezso/

• EDUCATION

1984-1986	PhD degree in Combinatorics
	Ohio State University
	Thesis: Some results related to a conjecture of Chvatal
1977-1982	Master degree in Mathematics
	Eötvös Loránd University of Sciences, Budapest

• CURRENT POSITION(S)

2001 -	Hungarian Director of the program
	Budapest Semester in Mathematics program (BSM is a joint study abroad
	program with St. Olaf College offered for American and Canadian
	undergraduates in their junior or senior years having mathematics major)
1996 -	Scientific Deputy Director (responsible for project planning, applications and
	management, budget and planning, applications of research, infrastructural
	investment)
	Alfréd Rényi Institute of Mathematics, Hungarian Academy of Sciences
1990 -	Professor
	Budapest Semester in Mathematics program
1984 -	Research fellow
	Department of Combinatorics, Alfréd Rényi Institute of Mathematics, Hungarian
	Academy of Sciences

• **PREVIOUS POSITIONS**

2001-2002	Interim director
	PhD program in Mathematics at the Central European University (CEU is a
	Budapest (Hungary) based, USA (New York State) accredited postgraduate
	university establishing Master and PhD programs in social sciences, humanities
	and sciences)
1999-2000	Acting Director
	Budapest Semester in Mathematics program
1994-1995	Head of Department
	Department of IT Services, Alfréd Rényi Institute of Mathematics, Hungarian
	Academy of Sciences
1985-86	Teaching Assistant
	Ohio State University, Department of Mathematics
1984-85	University Fellow
	Ohio State University, Department of Mathematics

• AREAS OF RESEARCH ACTIVITIES

- (1) Combinatorics
- (2) Extremal set theory
- (3) Coding theory
- (4) Cryptography and cryptology
- (5) Data base theory
- (6) Mathematical foundations of AI
- (7) Mathematical foundations of Networks

• FELLOWSHIPS, GRANTS

National research projects:

- 1. Several Hungarian OTKA (National Scientific Research Fund) and AKP (Academic Research Program administrated by the Hungarian Academy of Sciences) projects in combinatorics and information theory, participant or co-ordinator (1990-recent)
- 2. Several bilateral (Hungarian other countries) research grants financing mobility, participant or co-ordinator (1993-recent)

National research and development projects:

- 3. Several Hungarian projects for Funding state-of-the-art R&D infrastructure investment, financed by OTKA (National Scientific Research Fund) or OMFB (National Technical Development Council), co-ordinator (total project value is about 200.000 euros) (1987-recent)
- 4. Applied Research and Development grant of OMFB (National Technical Development Council) 1997-1999 "Mathematical modelling of curtain cutting", co-ordinator (total value 70.000 euros)
- 5. National Research and Development Grant by the Research and Development Division of the Ministry of Education, 2001-, "Digital watermarking", co-ordinator (total value 1.000.000 euros)
- National Office for Research and Technology, Competitive Industry project "TUDORKA7" Development of a Knowledge Management Tool Integrating Linguistic and Graph Theory Methods for Hungarian and Community Customs Authorities, local co- ordinator (total value 3.000.000 euros)
- 7. Member of the project board of the Artificial Intelligence National Laboratory
- 8. Leader of the Renyi's research team in the National Laboratory of Health Security

International projects:

- 9. National co-ordinator of the EUROMATH project (1994-1997)
- 10. EU 5th Framework Program, «High Level Scientific Conferences», FININF (2001) acting coordinator
- EU 5th Framework Program, «Confirming the international role of Community research», call:
 "Support for Centres of Excellence", 413000 euros, ICA1-1999-70112, 2001-2003,
 "Mathematics in Information Society", co-ordinator

• AWARDS

- 1982 Rényi Kató Prize
- 1996 Bolyai Scholarship

2009 Gold Cross of Merit of the Hungarian Republic

• TEACHING ACTIVITIES

1990 -	Professor (Budapest Semesters in Mathematics, taught courses: introductory and
	advanced Combinatorics)
1987-90	Lecturer (Eötvös Loránd University of Sciences, Budapest, taught courses:
	Combinatorics and Algebraic Combinatorics)
1985 - 86	Teaching Assistant (Ohio State University, taught courses: undergraduate calculus)
1981 - 84	Instructor (Eötvös Loránd University of Sciences, Budapest, taught courses: Combinatorics)

• ORGANISATION OF INTERNATIONAL SCIENTIFIC CONFERENCES

2022	Rényi100 (co-chair)
2018	Building Bridges II (co-chair)
2013	Erdős Centennial (chair)
2011	Gyula O.H. Katona is 70 (chair)
	EuroComb'11
2010	The Mathematics of Vera Sós
	A Conference in honor of the 70th birthday of Endre Szemerédi
2008	Fete of Combinatorics and Computer Science,
	Building Bridges, honouring the 60th birthday of Laci Lovász,
2006	Horizon of Combinatorics EMS Summer School and Conference
	FoIKS 2006 Foundations of Information and Knowledge Systems
	Large-Scale Random Graph Methods (chair)
2005	Workshops on Graph colorings and Combinatorial search
2004	Conference on Extremal Combinatorics and Workshop on Algebraic and
	Geometric Methods in Combinatorics
2001	Workshop and Conference on Hypergraphs (Gyula O.H. Katona is 60)

MEMBERSHIPS OF SCIENTIFIC SOCIETIES

2007-2013	Vice President of the Hungarian Bioinformatic Society
2011-2017	Vice President of the Bioinformatics Committee of the Hungarian Academy of
	Sciences
2013-	member of the board of the Hungarian Bioinformatic Society
2009-	Vice President of the Applied Mathematics Section of the Janos Bolyai Mathematical
	Society

• MAJOR COLLABORATIONS

2008	European Bioinformatics Institute, Hinxton, UK
2007	University La Sapienza, Rome, Italy
2006	Queen Mary College, University of London, London. UK
2000 - 2001	University of Grenoble, France
1993 – 1994	University of Grenoble, France
1991	Mathematical Institute of the Korean Academy of Sciences, Phenjan, North-
	Korea
1990	Indian Institute of Science, Bangalore, Indian Statistical Institute, Calcutta and
	Delhi, Tata Institute of Fundamental Research, Bombay, INDIA

1989	Mathematical Institute of the Cuban Academy of Sci., Havana, Cuba
1989	University of Bonn, Germany
1987	University of Grenoble, France
1987	University of Paris VI (Pierre and Marie Curie University), Paris, France
1987	Banach School of Mathematics, Warsaw, Poland
1986	University of Santiago de Chile, Chile

• **PROFESSIONAL SERVICE**

2002-2020Editor of Studia Scientiarum Mathematicarum Hungarica2002-2020Series Editor of the book series: "Bolyai Society Mathematical Studies"published by Bolyai Society joint with Springer-Verlag (Berlin/Heidelberg)

• SELECTED PUBLICATIONS

D. Miklós, *Linear binary codes with intersection properties*, Discrete Appl. Mathematics, 9 (1984) pp. 187–196. 0.557

N. Manickam, D. Miklós, *On the number of non-negative subsums of a non-negative partial sum*, in Combinatorics (eds.: A. Hajnal, L. Lovász, V. T. Sós), Colloquia Mathematica Societatis János Bolyai, 52 (1988) pp. 385–392.

J. Demetrovics, G. O. H. Katona, D. Miklós, O. Seleznjev, B. Thalheim: *Asymptotic properties of keys and functional dependencies in random databases*, Theoretical Computer Science, 190 (1998), 151–166.

D. Miklos, Subsums of a finite sum and extremal sets of vertices of the hypercube, Horizons of
Combinatorics (eds.: E. Győri, G.O.H. Katona, L. Lovász), Bolyai Society Mathematical Studies vol
17, Springer, Heidelberg, 2008, pp. 141-161.

J. Demetrovics, G. O. H. Katona, D. Miklós: *Functional dependencies distorted by errors* Discrete Appied Mathematics 156(2008), no. 6, pp. 862-869.