CURRICULUM VITAE

Prof. Jozef Gruska

Personal data: Born on December 11, 1933 in Rabčice, Slovakia. Slovak citizen, married, two children.

Education: 1. Elementary school (1939-44): Rabčice, Bobrov, Jablonka 2. Gymnasium (high school) (1946-53); Topolčany, Prievidza 3. Faculty of Natural Sciences, Commenius University, Bratislava, mathematics (1953-1958).

Scientific degrees: PhD in Computer Science (1966), Slovac Academy of Sciences; Doctor of Sciences (1996), Commenius University; docent and professor, (1995, 1996) Commenius University, Bratislava.

Current main position: Professor of Computer Science at Faculty of Informatics, Masaryk University, Brno, Czech Republik.

Other current positions: Professor of Computer science at the Commenius university in Bratislava (Slovakia).

Former affiliations: Institute of Technical Cybernetics, Slovak Academy of Sciences (1958-67, 1985-89), Institute of Mathematics of Slovak Academy of Sciences, (1968-1975, 1993 - 1996); Computing Centre United Nations Program, Bratislava (1975-85), Computing Centre of Slovak Academy of Sciences (1989-93).

Visiting positions: University of Minnesota, USA (2 years, 1968-70), University of Hamburg, Germany (44 months, 1984, 1986-7, 1990-93), University of Waterloo, Canada (6 months, 1981-2), University of Jena (6 months, 1980), University of Salerno, Italy (4 months, 1988, 89, 91), University of Paris 6 (3 months - 1989, 93, 97), Ecolé Normal Superior, Lyon (3 months -1993), University of Karlsruhe (5 month-1994, 1996, 2000), University of Vienna (4 month, 1995), Technical University Vienna (4 month, 1996), University of Nice, Sophia Antipolis (1997, 1998 and 1999, each time 4 months). Kansai Advanced Research Centre 3 weeks, 2000), ERATO Quantum project in Tokyo (2001,2002, 2003, 2004, 2005 11 month together) .

Research interests: Automata and formal languages. Descriptional complexity. Cellular and systolic automata and systems. Parallel and distributed computing. Foundation s of computer science. Quantum computing and communication.

Education experiences: Teaching positions at the universities in Bratislava, Kosice (Slovakia), Minneapolis (USA), Hamburg (Germany), University of Brno, University of Vienna, Technical University of Vienna, Author of curricula and textbooks for high-schools. 10 PhD students. Courses taught: theory of algorithm, computer architecture, programming (languages), complexity theory, design and analysis of algorithms, verification of programs, descriptional complexity, cryptography, automata and formal language theory, history of computing, discrete mathematics, models of parallel computers, methods of parallel programming, systolic systems and cellular automata, cryptography, foundations of computing, quantum information processing, Kolmogorov complexity, randomized algorithms.

The head of the regular weakly research seminar in Bratislava 1965-2000. The head of the informatics colloquium in Brno (since 1997).

Conference activities: Main organizer of the 3 big international and 10 national conferences and seminars. Programme committee member of 44 international meetings including 10th World Computer Congress (San Francisco). Main program and general organizer of 10 Winter Schools (2 week long), 1974-83 SOFSEM (Software Seminar). A co-founder of four important regular series of international conferences (MFCS (Czechoslovakia+Poland, 1973), SOFSEM (Czechoslovakia, 1974), LATIN (1992, Latin America), EQIS (2001, 2002, 2003 Japan).

More than 225 talks on seminars, colloquies and conferences in more than 100 places abroad.

Offices held: Member of several main bodies of Ministry of education and science for informatics in Czech Republik, Member of the scientific board of: Masaryk University, Brno; Faculty of Informatics, Masaryk University, Brno and Faculty of Mathematics and Physics Commenius university, Bratislava, Chairman of IFIP Specialist Group on Foundations of Computer Science (1989-1997). Member of the advisory board of IFIP TC12 on Artificial Intelligence (199-94). Council member of European Association of Theoretical Computer Science (1985-91),... Member of the Czech Agency for Research Grants (1998-) and various other Czech government committees; chairman and member of numerous science and educational committees in Czechoslovakia. Chairman of the research division (1986-89) and research group (1970-85) in VVS OSN.

Professional and honorary society membership: Slovak and Czechoslovak Union of Mathematicians and Physicists, Slovak and Czechoslovak Society for Cybernetics; European Union of Theoretical Computer Science (council member 1985-91). IFIP TC1 member (1996-), IFIP WG 1.5 member

Awards Recent ones: IFIP Silver Core Award (1996), Computer Pioneer award from IEEE Computer Society (1996) for Slovak Republik and also for Czech Republik, Gold medal of Masaryk University, 1997, Main prize of Rector of Masaryk University for outstanding achievements (1998, 2000), Medal of the first degree of the Czech Ministry of Education (1999), Honorary member of Slovak Union for Mathematics and Physics (1999), Silver medal of Šatárik university in Košice (2003), Gold medal of the Faculty of mathematics, Physics and Informatics, Commenius university, Bratislava (2003), Bolzano medal of Czech Academy of Sciences, for achievements in Mathematical Sciences (2004).

Publications More than 125 papers, proceedings, lecture notes, textbooks and monographs. More than 750 citations. Recent books: Foundations of computing (720 p), 1997 (by Thompson International Computer Press (UK-USA)), Quantum computing, McGraw-Hill UK, 430 p, 1999 (plus about 250 pages of additions and updatings on http://www.mcgraw-hill.co.uk/gruska), Japanese translation (2004).

Main contributions in the past: One of the first users of digital computers in Slovakia (1960-), one of the first propagandist of computing in Slovakia (since 1959); one of the first lecturers of programming at universities in Slovakia; author of the first curricula and textbooks for programming for high schools in Slovakia; the head of the research seminar in informatics (1966-2001) in Bratislava that much contributed to the development of basic research in theoretical informatics in Slovakia; important contribution to the establishment of basic education in informatics at universities in Bratislava and Košice; for many years a very active official of Slovak Cybernetics Society, of several editorial boards and scientific boards.

Main current activities The head of a big research project (2005-2011), at Faculty of Informatics, Masaryk University Brno, oriented on the study and development of concurrent and distributed systems; the head of a special doctoral study grant GAČR (2005-2008) in the area of parallel and distributed systems; the head of the fundamental research GAČR grant in quantum information processing (2004-2006). Lectures in cryptography, quantum information processing and randomized algorithms. Steering committee chair of Asia Quantum Information Processing conference (2005- Japan, 2006 - China, 2007- Japan, 2008 - India); 40 talks during 2004-2005 at colloquies, seminars, workshops and conferences in Italy, Germany, Japan, China, Korea, India, Poland, Austria, Spain, Russia.

Brno, May 2, 2005 Jozef Gruska