

Curriculum Vitae

Basic Information

- **Name:** RNDr. Pavol Novotný
- **Date of Birth:** September 6, 1979
- **Place of Birth:** Žilina, Slovakia

Current Position

- **PhD Study:** from 2003
Department of Computer Graphics and Vision
Institute of Applied informatics
Faculty of Mathematics, Physics and Informatics – <http://www.fmph.uniba.sk>
Comenius University in Bratislava – <http://www.uniba.sk>
Slovakia
 - **Branch:** Volume graphics
 - **Supervisor:** Doc. Dr.-techn. Ing. Miloš Šrámek

Education

- **Master Study:** 1998-2003
Faculty of Mathematics, Physics and Informatics
Comenius University in Bratislava
Slovakia
 - **Branch of Study:** Mathematics
 - **Specializations:**
 - **Major:** Computer graphics and geometry
 - **Minor:** Computer science for mathematicians
- **Secondary School:** 1994-1998
 - “Gymnázium Veľká okružná”, Žilina, Slovakia
 - Mathematical class

Abilities and Skills

- **Computer Languages:**
 - **routine use:** C++, HTML, LaTeX
 - **basics:** Pascal, assembler, PHP, tesh scripts
- **Computer Applications:** text editors, spreadsheets, both raster and vector graphics, animations creating, presentations preparing, internet applications
- **Languages:**
 - Slovak – native
 - English – active (both written and spoken)
 - German – basics
 - Czech – active (both written and spoken)
- **Others:** driving licence (class B), 5th kyu in karate

Study and Research Abroad Stays

- Austrian Academy of Sciences, Commission for Scientific Visualization, Vienna
 - one month in winter 2003 and one month in summer 2005
 - <http://pirin.viskom.oeaw.ac.at/>

Competitions, Publications and International Talks

- **2005**
 - **Volume Graphics 2005** – Stony Brook, New York, USA
Representation of objects with sharp details in truncated distance fields
 - Co-author of the book for the occasion of the 25th jubilee of our faculty
“25 rokov Fakulty matematiky, fyziky a informatiky Univerzity Komenského v Bratislave”
(25 years of Faculty of Mathematics, Physics and Informatics of Comenius University in Bratislava)
- **2004**
 - **Colloquium on Computer Graphics (Konversatorium)** – Vienna, Austria
Problems of sharp object details in distance field representation (talk)
 - **Qualification work for the academic degree RNDr.** – Comen. University, Bratislava, SK
Volume representation by gradient and distance fields
 - **Computer Graphics International Conference 2004** – Heraklion, Crete, Greece
CSG operations with voxelized solids
- **2003**
 - **Master thesis** – Comenius University, Bratislava, Slovakia
“Reprezentácia geometrických objektov pomocou poľa hustoty a gradientu”
(Representation of geometric objects by gradient and distance fields)
 - **Student Scientific Conference** – Banská Bystrica, Slovakia
“CSG operácie s voxelizovanými modelmi”
(CSG operations with voxelized solids)
 - University competition: 1st place in the category of computer graphics, Prize of the Literary Fund
 - Czech-Slovak competition: participation
 - **Central European Seminar on Computer Graphics** – Budmerice, Slovakia
CSG operations with voxelized solids (poster)
- **2002**
 - faculty competition for the best web page of a computer graphics student (3rd prize for the web page, 1st prize for the graphic object "Heart in a Cube")
- **Secondary and Elementary School Competitions**
 - Mathematical Olympiad, Physics Olympiad, Young Physicists' Tournament, mathematical corresponding seminars (SKMS, BKMS, SEZAM)

Organization of Conferences, Seminars and Competitions

- **SCCG, CESC** (from 2004) – <http://www.sccg.sk>, <http://www.cescg.org>
- **Volume Graphics Group Seminar** (from 2004) – <http://www.sccg.sk/~vgsem>
- **SEZAM** (1996-2004), **KMS (SKMS)** (1998-2004) – mathematical corresponding seminars for students of elementary and secondary schools – <http://www.sezam.sk>, <http://kms.sk>

Hobbies

- **Apollo** (from 2000) – mixed choir – <http://www.apollo.input.sk>
- **Karolina SDC** (from 2003) – square dance club – <http://www.karolina.sk>
- **Others:** programming, guitar, nature, sports, books,...

In Bratislava, February 28, 2006.

Pavol Novotný