

Curriculum Vitae of Prof. Dr. Svetoslav Markov

June 2014

Education

MSc. Sofia University, Faculty of Physics and Mathematics, Master thesis: “Extended interval arithmetic and applications”, 1966;

IBM DOS Certificate, IBM Germany, 1968;

MA, Wolfson College, University of Cambridge, 1971;

PhD. Sofia University, Faculty of Physics and Mathematics, PhD thesis: “Extended interval arithmetic and applications”, 1979 (VAK 8769-27/03/1979);

DSc. Bulgarian Academy of Sciences, Institute of Mathematics, DSc thesis: “Algebraic properties of intervals and convex bodies” (VAK 29169-29/06/2004)

Professional Experience

2010- Professor & Associate Member, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences;

2006-2010, Professor & Head, Section Biomathematics, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences;

1996-2006, Associate Professor & Head, Section Biomathematics, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences;

1989-1996, Associate Professor & Head, Section Mathematical Modelling in Biology, Institute of Biophysics, Bulgarian Academy of Sciences;

1984-1989, Associate Professor & Head, Research Group “Mathematical Modelling in Biology”, Centre of Biology, Bulgarian Academy of Sciences.

Research Publications

70+ refereed papers in the scientific literature;

1 research monograph; Extensive editorial work.

Awards/Honours

IMI Medal for significant contributions in science, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 2013;

Associate Member, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, 2010;

Invited (plenary) lecturer at 12+ International Conferences.

Research Contracts

Principal investigator for more than 12 contracted research projects funded by:

- Bulgarian Ministry of Education and Science;
- Bulgarian State Committee of Science;
- University of Karlsruhe, Germany;
- Swiss National Science Foundation;
- Sunfish Studio, MN, USA;
- CRNS, France.

Postgraduate students

Supervisor of 25 M.Sc. and 3 Ph.D. theses.

Visiting Positions

Institute for Numerical Analysis, RAN, Moscow;
University of Hamburg, Germany;
Institute of Informatics, Basel University, Switzerland;
INCA, University of Dublin, Ireland;
Institute for Electrical Engineering, Kyoto, Japan;
Federal University, Porto Alegre, Brazil;
Catholic University, Pelotas, Brazil;
University of Paris 6, Lip6, France;
University of Pretoria, RSA.

Professional Service

Organiser of 20+ international seminars, workshops and conferences;
President, Section Biomathematics & Scientific Computation, SMB;
President, Bulgarian Section GAMM;
President, Biomath Forum Society;
Member, Reliable Computing, Journal editorial board;
Member, Biomath, Journal Editorial board;
Member, Biomath Communications, Journal Editorial board;
Member, Letters in Biomathematics, Journal Editorial board,
Member, IEEE WG for Interval arithmetic standard.

Professional Affiliations

European Society for Mathematical and Theoretical Biology;
Gesellschaft fuer Mathematik und Mechanik GAMM;
Bulgarian Mathematical Society SMB.
Society for Industrial and Applied Mathematics SIAM.

Current scientific Interests

Spaces of intervals and convex bodies;
Interval curve fitting methods with result verification;
Mathematical modelling of cell growth and bioreactors.

Significant scientific contributions

Extended and directed interval arithmetic,
Quasivector spaces of convex bodies and intervals,
Reaction schemes in bioreactor modelling.