ZEEV GEYZEL 054-5727179 zgeyzel@gmail.com

APPLIED MATHEMATICIAN AND ALGORITHM DEVELOPER:

Cryptography, Image Processing, Pattern Recognition, Watermarking and Fingerprinting, Computer Vision, Information Theory, Computational Geometry, NLP, Optimization Problems, Scheduling, Compression, Text Analysis…

EXCELLENT PROGRAMMING SKILLS:

Windows, Linux / C++, C, Python, Assembler(s), Lisp, VHDL …

PROFESSIONAL EXPERIENCE IN LAST 20 YEARS:

Since 2017	"MOBILEYE AN INTEL COMPANY", Jerusalem, Senior Algorithms Researcher • Multisource Ego Motion– algorithms, design, implementation • C++ library for Geometric classes – design and implementation
2020, Feb-May	Incubation program at INTEL (Santa-Clara CA, USA): • deep fake recognition (Pictures and video) – algorithms, implementation
2003-2017	NDS / CISCO, Jerusalem, Staff Engineer, Algorithms and Security expert • CEO Award "for extraordinary technological contribution" • Author/applicant of 10 patents • Invented, designed, developed, implemented Advanced Invisible Watermarking for Video stream. • Designed and implemented Cryptographic algorithms and protocols. • Discovered Smart Cards Vulnerabilities and proposed counter-measures. • Invented and designed methods of Fingerprinting, Content Identification, etc. for Video and Audio Streams • Invented, designed, developed automatic analysis of silicon chips from the set (~10^4) of electronic microscope photos • DPA and other methods for the detection of hidden data in chips • Co-processor libraries for advanced mathematical operations on HW
2001-2003	"SARIN TECHNOLOGIES", Ramat-Gan - Senior Algorithm Developer Invented, designed, implemented, integrated the algorithms and programs for: • 3-dimensional allocation of parameterized geometric forms in non-ordered bodies • Analysis of the Optical features of brilliants and diamonds • Recognition and 3D-modelling of polyhedron structure from captures • High-dimensional Convex Cover • Special stochastic and pseudo-statistic routines for Pattern Recognition • Special packages for fast Linear and Convex Optimization

EDUCATION

1989-1993	Hebrew University, Jerusalem - Ph.D. Studies in Computer Sciences • Stochastic methods in Computational geometry
1975-1980	MIIT, Moscow - M.Sc. in Computer Sciences and Applied Mathematics • Cum laude Diploma (nr. 1)

LANGUAGES:

- Hebrew, English, Russian