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https://nyuad.nyu.edu/en/academics/divisions/science/faculty/ilya-spitkovsky.html

## Education

1987 Doctor of Science in Physics and Mathematics (Habilitation Degree) Georgian Academy of Sciences, Tbilisi

1978 Candidate of Science in Physics and Mathematics (Ph.D. Equivalent) University of Belarus, Minsk

1975 Master of Science (with Honors) in Mathematics and Education University of Odessa, Ukraine

## Academic Positions

2013- Division of Science and Mathematics
New York University Abu Dhabi (NYUAD), UAE
Professor (September 2014 - Present)
Visiting Professor (September 2013 - May 2014)
1990-2016 Department of Mathematics
College of William \& Mary, Williamsburg, VA
Professor of Mathematics, Emeritus (since November 2016)
Professor (August 1993-2016; on leave July 2013 - August 2016)
Associate Professor (August 1992 - August 1993)
Visiting Professor (August 1990 - July 1992)
1986-1989 Department of Integral Equations and Boundary Value Problems
Marine Hydrophysical Institute, Ukrainian Academy of Sciences
Leading Research Fellow (October 1988 - November 1989)
Senior Research Fellow (February 1986 - September 1988)
1978-1986 Department of Integral Equations and Mathematical Simulation
Economics Institute, Ukrainian Academy of Sciences
Senior Research Fellow (December 1980 - February 1986)
Junior Research Fellow (November 1978 - December 1980)
1976-1989 Department of Mathematics
(part-time) University of Odessa, Ukraine
Professor (September 1987 - July 1989)
Associate Professor (September 1980 - July 1982)
Assistant Professor (February 1976 - July 1978)

## Long-Term Research Visits

Isaac Newton Institute for Mathematical Sciences, Cambridge, UK (August 2019)
Technical University of Berlin, Germany (June - July 2018)
Instituto Superior Tecnico, Lisbon, Portugal (Spring 2009)
University of Pisa, Italy (Summer 2004)
Katholieke Universiteit Leuven, Belgium (April - May 2003)
Technische Universität Darmstadt, Germany (Summer 1992)

## Editorial Positions

Integral Equations and Operator Theory
Operator Theory: Advances and Applications
Operators and Matrices
International Journal for Information
\& Systems Sciences
Armenian Journal of Mathematics
International Journal of Mathematics
and Mathematical Sciences
Annals of Functional Analysis
Special Matrices
Electronic Journal of Linear Algebra
Journal of Integral Equations and Applications
Journal of Fourier Analysis and Applications

Editorial Board member (2004 - present)
Associate Editor (2009 - present)
Editorial Board member (2006 - present)
Associate Editor (2008 - present)
Editorial Board member (2008 - present)
Editorial Board member (2009 - present)
Editorial Board member (2014 - present)
Editorial Board member (2015 - present)
Associate Editor (2016 - present)
Editorial Board member (2018 - present)
Editorial Board member (2021 - present)

## Honors, Prizes and Awards

September 2020 Honorary member of the Razmadze Mathematical Institute (Georgia)
February 2013 Plumeri Award for Faculty Excellence
May $2010 \quad$ Simon Teaching Prize
May 1993 Alumni Fellow Teaching Award
September 1984 Certificate Senior Scientist in Mathematical Analysis, awarded by the Academy of Sciences of the USSR

April 1984 Ukrainian Academy of Sciences Award
"For the best research in mathematics among young scientists"
1974-1975 Lenin scholarship

## Courses Taught

Calculus, linear algebra, foundations of mathematics, analytic geometry, differential equations, real analysis, complex analysis, general topology, functional analysis, operator theory, linear programming, $C^{*}$-algebras, boundary value problems, spectral theory of Toeplitz operators, mathematics of finance, introduction to computational algebraic geometry.

## Graduate and Undergraduate Advising

Ph.D. Students

1988 Sergei Yatsko University of Odessa, Ukraine
1990 Peter Tishin University of Odessa, Ukraine
1990 Aziz Tashbaev University of Odessa, Ukraine

## Post Doctorate Advising

Spring 1996 Torsten Ehrhardt (Technical University of Chemnitz, Germany)
2002-03 AY Josue Ramirez (CINVESTAV, Mexico)
2009-10 AY J. Loreto Hernández (Universidad Autónoma de México)

## Honors/Capstone Projects

| 2005-06 AY | David Rose | Results concerning the Aluthge transform |
| :--- | :--- | :--- |
| $2006-07$ AY | Abraham Isgur | Factorization of some almost periodic matrix functions |
| $2012-13$ AY | Tyler Moran | On almost normal matrices |
| $2013-14$ AY | Ruey Ting Chien | Numerical ranges of some tridiagonal matrices |
| $2014-15$ AY | Mirjana Stevanovic | On arrowhead matrices |
|  | Claire Marie Thomas | On flat portions on the boundary of the numerical range |
| $2016-17$ AY | Siyu (Shelley) Zhong | On the normalized numerical range of normal matrices |
| $2017-18$ AY | Ali N Hamed | On the maximal numerical range of some matrices |
| $2018-19$ AY | Aleksandra Badowska | The product numerical range and its application |
|  | Titas Geruba | Structured matrices with elliptical numerical ranges |
| $2019-20$ AY | Kenya Vasquez | Ellipticity criteria for the numerical range |
|  | Qixiao He | Numerical ranges of partial isometries |
| Thanin Quartz | On the Stampfli point of some operators and matrices |  |
| $2021-22$ AY | Muyan Jiang | Higher rank numerical ranges of some tridiagonal matrices |
|  | Ibrahim Suleiman | On partial isometries with circular numerical ranges |

## Research Experience for Undergraduates (REU)

Sigal Gottlieb, Inequalities involving the numerical radius (Summer 1991, advised jointly with Charlie Johnson),

Mark Gelfand, Almost periodic factorization: Applicability of the division algorithm (Summer 1993),

Dennis Keeler, The numerical range of $3 \times 3$ matrices (Summer 1994, advised jointly with Leiba Rodman),

Sudheer Shukla, Equality of higher numerical ranges of matrices and a conjecture of Kippenhahn on hermitian pencils (Summer 1995, advised jointly with Chi Kwong Li),

Darryl Yong, Almost periodic factorization of certain block triangular matrix functions (Summer 1995),

Daniel Quint, New cases of almost periodic factorization of triangular matrix functions (Summer 1996, advised jointly with Leiba Rodman),

Ronald Walker, Almost periodic factorization of block triangular matrix functions revisited (Summer 1997),

Laren Caston and Milena Savova, On eigenvalues and boundary curvature of the numerical range (Summer 1999, advised jointly with Nahum Zobin),

Nicholas McCarthy and David Ogilvie, Birkhoff's theorem and convex hulls of Coxeter groups (Summer 1999, advised jointly with Nahum Zobin),

Walter Lin, Factorization of some triangular almost periodic matrix functions (1999-2000 AY),

Chris Hillar, Positive eigenvalues and two-letter generalized words (Summer 2000, advised jointly with Charlie Johnson),

Ethan Brown, On matrices with elliptical numerical ranges and on flat portions on the boundary of the numerical range (Summer 2002 and 2002-03 AY),

Justin Droba and David Rose, On some properties of the Aluthge transform (Summer 2005),

Anastasia Boryssenko and Bich Hoai, On power dominance of positive semi definite matrices (Summer 2006, advised jointly with Charlie Johnson),

Hakan Seyalioglu, Cones invariant under families of matrices (2006-07 AY, advised jointly with Leiba Rodman),

Ashwin Rastogi, On comparison of the division algorithm and Portuguese transformation approach to explicit factorization of certain matrix functions (2007-08 AY, advised jointly with Leiba Rodman),

Eduard Einstein, The ratio field of values (Summer 2009, advised jointly with Charlie Johnson),

Jeffrey Eldred, Numerical ranges of companion matrices (Spring 2010-Summer 2011),
Daniel Corey and Ryan Kirk, The product field of values (Summer 2011, advised jointly with Charlie Johnson),

Timothy Leake, Multiply generated points of the numerical range (Summer 2012),

Weston Barger, Spectral behavior of skew hermitian matrices under hermitian perturbations (Summer 2012, advised jointly with Charlie Johnson).

Parth Palihar, Continuous selections of the inverse field of values generating function (Summer 2013, advised jointly with Brian Lins).

Andrei-Florian Stoica, Normalized numerical range (2015-16 AY).

## Computational Science Training for Undergraduates in the Mathematical Sciences (CSUMS)

Tyler Moran, Numerical ranges of almost normal matrices (Summer 2012),
Zach Price, On the spectra of some cyclic matrices (Summer 2012, advised jointly with Charlie Johnson).

The results of work with undergraduates are published in joint publications [233, 232, $230,228,219,215,205,204,199,198,197,192,186,185,183,179,177,176,168,159,157$, $152,150,144,141,140,139,129,127,117,114,112,105,100,98,93,92,88,84,71]$ with them.

# Fellowships and Grants 

## Grants awarded by outside agencies

| 2021 | Collaborative Research: NSF Grant DMS-1620073 |
| :---: | :---: |
|  | "AIM \& ICERM Research Experiences for Undergraduate Faculty (REUF - program mentor) |
| 2013-18 | NSF Grant DMS-1331021 "Computational and Statistical theory and techniques in the study of large data sets" \$880,000 |
| 2012-16 | EU Grant 318910 "Asymptotics of Operator Semigroups" |
|  | Scientist in charge on the William \& Mary side |
| 2005-09 | NSF Grant DMS-0456625 "Wiener-Hopf Factorization and its Applications" \$ 153,000 |
| 2000-04 | NSF Grant DMS-9988579 "Problems in Operator and Matrix Theory" \$ 201,489 |
| 1999 | NRC COBASE Grant "Toeplitz Operators with Matrix Semi Almost Periodic Symbols and their Applications in Diffraction Theory \$ 2,750 |
| 1998-2000 | NSF Grant DMS-9800704 " Almost Periodic and Multivariable Periodic Matrix Functions: Extensions, Factorizations, Applications \$ 120,522 |
| 1997-99 | NATO Grant CRG-950332 "Toeplitz Operators and Algebras of Convolution Type Operators" (renewal) \$ 7,400 |
| 1995-97 | NATO Grant CRG-950332 "Toeplitz Operators and Algebras of Convolution Type Operators" \$ 6,234 |
| 1994-97 | NSF Grant DMS-9401848 "Topics in Operator Theory" \$ 67,500 |
| 1991-93 | NSF Grant DMS-9101143 "Matrices, Operators and Factorization" \$ 37,550 |

## Internal Grants

2013- Faculty Research funding, Division of Science and Mathematics
present New York University Abu Dhabi (NYUAD)
2013 Faculty summer research grant, William \& Mary
2008 Faculty Research Assignment (taken during 2008-09 academic year)
2005 Faculty summer research grant, William \& Mary
2001 Faculty Research Assignment (taken during 2002-03 academic year)
2000 Faculty summer research grant, William \& Mary
1998 Faculty summer research grant, William \& Mary
1995 Faculty Research Assignment, William \& Mary
1994 Faculty summer research grant, William \& Mary
1993 Faculty summer research grant, William \& Mary.

## Research

$h$-index 27, see https://scholar.google.com/citations?user=xX8KtawAAAAJ

## Patents

1. Multivariable matrix spectral factorization, US Patent 10,951,919 B2 (Mar. 16, 2021) (with L. Ephremidze).

## Books

11. The Mathematical Legacy of Victor Lomonosov, Advances in Analysis and Geometry 2, De Gruyter, 2020 (with R. Aron, E. Gallardo, M. Martin, D. Ryabogin, and A. Zvavitch - Editors). MR4312024.
12. Large truncated Toeplitz matrices, Toeplitz operators, and related topics, Operator Theory: Advances and Applications 259, Birkhäuser-Verlag, Basel-Boston, 2017, xxvi+740 pp. (with D. Bini, T. Erhahrdt, and A. Karlovich - Editors). MR 3587843.
13. Operator Theory, Operator Algebras, and Applications, Operator Theory: Advances and Applications 242, Birkhäuser-Verlag, Basel-Boston, 2014, xiv+373 pp. (with A. Bastos, A. Lebre, and S. Samko - Editors). MR3236900.
14. Operator Theory, Pseudo-differential Equations, and Mathematical Physics, Operator Theory: Advances and Applications 228, Birkhäuser-Verlag, Basel-Boston, 2013, xxvi+406 pp. (with Yu. Karlovich, L. Rodino, and B. Silbermann - Editors). MR 3059564.
15. Convolution Equations and Singular Integral Operators, Operator Theory: Advances and Applications 206, Birkhäuser-Verlag, Basel-Boston, 2010, xxii+217 pp. (with $L$. Lerer and V. Olshevsky - Editors). MR 2011g:47001.
16. Topics in Operator Theory. Volume II: Systems and Mathematical Physics, Operator Theory: Advances and Applications 203, Birkhäuser-Verlag, Basel-Boston, 2010, 455 pp. (with J. A. Ball, V. Bolotnikov, J. W. Helton and L. Rodman - Editors) MR 2011e:47005.
17. Topics in Operator Theory. Volume I: Operators, Matrices, and Analytic Functions, Operator Theory: Advances and Applications 202, Birkhäuser-Verlag, Basel-Boston, 2010, 640 pp. (with J. A. Ball, V. Bolotnikov, J. W. Helton and L. Rodman - Editors). MR 2011e:47004.
18. Convolution Operators and Factorization of Almost Periodic Matrix Functions, Birkhäuser-Verlag, Basel-Boston, 2002, 462 pp. (with A. Böttcher and Yu. I. Karlovich) MR 2003c:47047.
19. Factorization of Measurable Matrix Functions, Mathematical Research 37, AkademieVerlag, Berlin \& Operator Theory: Advances and Applications 25, Birkhäuser-Verlag, Basel-Boston, 1987, 372 pp. (with G.S.Litvinchuk). MR 89e:47022 \& 90g:47030.
20. Factorization of almost periodic matrix functions and (semi)Fredholmness of some classes of convolution type equations, Manuscript no. 4421-85, VINITI 1985, 137 pp. (with Yu.I.Karlovich).
21. Factorization of matrix functions, Manuscript no. 2410-84, VINITI, 1984, 460 pp. (with G.S.Litvinchuk).

## Refereed research papers

236. On Kippenhahn curves and higher-rank numerical ranges of some matrices, Linear Algebra and its Applications 629 (2021), 246-257 (with N. Bebiano amd J. Providéncia). MR4305331.
237. Non-parallel flat portions on the boundaries of numerical ranges of 4 -by- 4 nilpotent Matrices, Electronic Journal of Linear Algebra 37 (2021), 504-523 (with M. Cox, W. M. Greve, G. K. Hochrein, and L. J. Patton). MR4294052.
238. The norm attainment problem for functions of projections, Archiv der Mathematik 117 (2021), 397-403 (with A. Böttcher). MR4310137.
239. Kippenhahn curves of some tridiagonal matrices, Filomat (with N. Bebiano, J. Providéncia and K. Vazquez), to appear.
240. On the Stampfli point of some operators and matrices, Operators and Matrices (with T. Quartz), to appear.
241. On the generalization of Janashia-Lagvilava method for arbitrary fields, Georgian Mathematical J. (with L. Ephremidze), to appear.
242. On some 4-by-4 matrices with bi-elliptical numerical ranges, Linear and Multilinear Algebra 69 (2021), 855-870 (with T. Geryba). MR4230452.
243. On explicit Wiener-Hopf factorization of $2 \times 2$ matrices in a vicinity of a given matrix, Proceedings of the Royal Society A 476 (2020), 0027-38. (with L. Ephremidze). MR4126497.
244. On the numerical range of some block matrices with scalar diagonal blocks, Linear and Multilinear Algebra 69 (2021), 772-785 (with T. Geryba). MR4230447.
245. Inverse continuity of the numerical range map for Hilbert space operators, Operators and Matrices 14 (2020), 77-90 (with B. Lins). MR4080924.
246. Quantitative results on continuity of the spectral factorization mapping, J. London Math. Soc. 101 (2020), 60-81 (with L. Ephremidze and E. Shargorodsky).
247. On a parametrization of non-compact wavelet matrices by Wiener-Hopf factorization, Transactions of Razmadze Mathematical Institute 173 (2019), no.2, 31-36 (with L. Ephremidze and N. Salia). MR40335600.
248. Integral operators of the $\mathcal{L}$-convolution type in the case of a reflectionless potential, in Modern Methods in Operator Theory and Harmonic Analysis, Springer Proceedings in Mathematics \& Statistics 291 (2019), 175-198 (with D. Hasnyan, A. G. Kamalyan, and M. Karakhanyan). MR4008985.
249. Singularities of base polynomials and Gau-Wu numbers, Linear Algebra and Applications 581 (2019), 112-127 (with K. Camenga, L. Deaett, P. Rault, T. Sendova, and R. Yates). MR3981613.
250. A note on the maximal numerical range, Operators and Matrices 13 (2019), 601-605. MR4008501.
251. Signatures of quantum phase transitions from the boundary of the numerical range, Journal of Mathematical Physics 59 (2018), no. 12, 121901, 21 pp. (with S. Weiss). MR3883127.
252. On the Fredholm property of a class of convolution-type operators, Mat. Zametki 104 (2018), no. 3, 407-421 (with A. G. Kamalyan), in Russian. Translation in Math. Notes 104 (2018), 288-303. MR3849090.
253. On the maximal numerical range of some matrices, Electronic Journal of Linear Algebra 34 (2018), 288-303 (with A. N. Hamed). MR3841396.
254. On a generalization of Smirnov's theorem with some applications, Georgian Math. J. 25 (2018), 217-220 (with L. Ephremidze). MR3808283.
255. A note on the factorization of some structured matrix functions, Integral Equations and Operator Theory 90 (2018), 7 pp. (with A. Voronin). MR3807958.
256. Elliptical higher rank numerical range of some Toeplitz matrices, Linear Algebra and Applications 549 (2018), 256-275 (with M. Adam and A. Aretaki). MR3784348.
257. The normalized numerical range and the Davis-Wielandt shell, Linear Algebra and Applications 546 (2018), 187-209 (with B. Lins and Siyu Zhong). MR3771879.
258. A note on Anderson's theorem in the infinite-dimensional setting, Journal of Mathematical Analysis and Applications 421 (2018), 349-353 (with R. Birbonshi and P. D. Srivastava). MR3759545.
259. Robert Sheckley's Answerer for two orthogonal projections, Operator Theory: Advances and Applications 268 (2018), 125-138 (with A. Böttcher). MR3793301.
260. Similarity between two projections, Integral Equations and Operator Theory 89 (2017), 507-518 (with A. Böttcher and B. Simon). MR3735507.
261. On the algorithmization of Janashia-Lagvilava matrix spectral factorization method, IEEE Transactions on Information Theory 64 (2018), 728-737 (with L. Ephremidze and F. Saied). MR3762588.
262. On the partial indices of triangular matrix functions with prescribed indices of their diagonal elements, Operator Theory: Advances and Applications 262 (2018), 251-285 (with K. V. Harutyunyan and A. G. Kamalyan). MR3792246.
263. A distance formula related to a family of projections orthogonal to their symmetries, Operator Theory: Advances and Applications 267 (2018), 371-376. MR3837645.
264. Operators with compatible ranges in an algebra generated by two orthogonal projections, Advances in Operator Theory 3 (2018), 117-122. MR3730342.
265. On Robinson's Energy Delay Theorem, Transactions of A. Razmadze Mathematical Institute 171 (2017), 16-23 (with L. Ephremidze and W. H. Gerstacker). MR3623628.
266. On non-optimal spectral factorizations, Georgian Math. J. 24 (2017), 517-522 (with L. Ephremidze and I. Selesnik). MR3731342.
267. On the normalized numerical range, Operators and Matrices 11 (2017), 219-240 (with A.-F. Stoica). MR3602640.
268. Normal Matrices subordinate to a tree and flat portions of the field of values, Linear Algebra and its Applications 507 (2016), 198-207 (with C. R. Johnson, M. Stevanovic, and M. Turnansky). MR3536953.
269. Pre-images of extreme points of the numerical range, and applications, Operators and Matrices 10 (2016), 1043-1058 (with S. Weis). MR3584690.
270. Numerical ranges of 4-by-4 nilpotent matrices: Flat portions on the boundary, Operator Theory: Advances and Applications 259 (2017), 561-591 (with E. Militzer, L. J. Patton, and M.-C. Tsai). MR3674639.
271. Quantitative results on continuity of the spectral factorization mapping in the scalar case, Bol. Soc. Mat. Mex. 22 (2016), 517-527 (with L. Ephremidze and E. Shargorodsky). MR3544152.
272. Continuity of the maximum entropy inference: Convex geometry and numerical range approach, Journal of Mathematical Physics 57 (2016), 015204, 17 pp. (with L. Rodman, A. Szkota, and S. Weis). MR3808888.
273. Corrections and additions to 'Inverse continuity on the boundary of the numerical range', Linear and Multilinear Algebra 64 (2016), 100-104 (with T. Leake and B. Lins). MR3433382.
274. Line segments on the boundary of the numerical ranges of some tridiagonal matrices, Electronic Journal of Linear Algebra 30 (2015), 693-703 (with C. M. Thomas). MR3426294.
275. Matrix spectral factorization with perturbed data, Mem. Differential Equations Math. Phys. 66 (2015), 65-82 (with L. Ephremidze). MR3454245.
276. Toeplitz operators of finite interval type and the table method, Journal of Mathematical Analysis and Applications 432 (2015), 1148-1173 (with M. C. Câmara and C. Diogo). MR3378415.
277. Rank-deficient spectral factorization and wavelets completion problem, International Journal of Wavelets, Multiresolution and Information Processing 13 (2015), 1550013 (with L. Ephremidze and E. Lagvilava). MR3350063.
278. Some extremal properties of the partial indices of triangular matrix functions, Reports. National Academy of Sciences of Armenia 115 (2015), 87-92 (with K. V. Harutyunyan and A. G. Kamalyan). MR3497382.
279. On possible tuples of partial indices of triangular matrix functions, Reports. National Academy of Sciences of Armenia 115 (2015), 7-14 (with K. V. Harutyunyan and A. G. Kamalyan). MR3469521.
280. On the numerical ranges of some tridiagonal matrices, Linear Algebra and its Applications 470 (2015), 228-240 (with R. T. Chien). MR3314314.
281. Some aspects of a novel matrix spectral factorization algorithm, Proceeding of $A$. Razmadze Mathematical Institute 166 (2014), 49-60 (with L. Ephremidze and N. Salia). MR3300615.
282. One sided invertibility of matrices over commutative rings, corona problems, and Toeplitz operators with matrix symbols, Linear Algeba and its Applications 459 (2014), 58-82 (with M. C. Câmara and L. Rodman). MR3247215.
283. Factorization of matrices with symmetries over function algebras, Integral Equations and Operator Theory 80 (2014), 469-510 (with L. Rodman). MR3279513.
284. Factorization of some triangular matrix functions and its applications, Operators and Matrices 9 (2015), 1-29 (with Yu. I. Karlovich and Juan Loreto-Hernandez). MR3338549.
285. On the Gau-Wu Number for Some Classes of Matrices, Linear Algebra and its Applications 444 (2014), 254-262 (with K. Camenga, P. Rault and T. Sendova). MR3145844.
286. Inverse Continuity on the Boundary of the Numerical Range, Linear and Multilinear Algebra 62 (2014), 1335-1345 (with T. Leake and B. Lins). MR3261740.
287. Pre-images of Boundary Points of the Numerical Range, Operators and Matrices 8 (2014), 699-724 (with T. Leake and B. Lins). MR3257887.
288. On the factorization of some block triangular almost periodic matrix functions, Operator Theory: Advances and Applications 242 (2014), 25-52 (with A. Bastos, A. Bravo, and Yu. Karlovich). MR3243305.
289. The distribution of eigenvalues of doubly cyclic $Z_{+}$-matrices, Linear Algebra and its Applications 439 (2013), 3576-3580 (with C. R. Johnson and Z. Price). MR3119872.
290. On Numerical Ranges of Rank-two Operators, Integral Equations and Operator Theory 77 (2013), 441-448 (with L. Rodman). MR3116668.
291. Numerical range of some doubly stochastic matrices, Applied Mathematics and Computation 221 (2013), 40-47 (with K. Camenga, P. Rault and T. Sendova). MR3091904.
292. 3-by-3 matrices with elliptical numerical range revisited, Electronic Journal of Linear Algebra 26 (2013), 158-167 (with P. Rault and T. Sendova). MR3065855.
293. On almost normal matrices, Textos de Matemática 44 (2013), 131-144 (with T. Moran). MR3204325.
294. On the kernel and cokernel of some Toeplitz operators, Operator Theory: Advances and Applications 237 (2013), 127-144 (with T. Ehrhardt). MR3186737.
295. Continuity properties of vectors realizing points in the classical field of values, Linear and Multilinear Algebra 61 (2013), 1329-1338 (with D. Corey, C. Johnson, R. Kirk and B. Lins). MR3175367.
296. The product field of values, Linear Algebra and Applications 438 (2013), 2155-2173 (with D. Corey, C. Johnson, R. Kirk and B. Lins). MR3005282.
297. The Cauchy singular integral operator on weighted variable Lebesgue spaces, Operator Theory: Advances and Applications 236 (2013), 275-291 (with A. Karlovich). MR3203066.
298. Classification of the finite-dimensional algebras generated by two tightly coupled idempotents, Linear Algebra and Applications 439 (2013), 538-551 (with A. Böttcher). MR3057092.
299. Group inversion in certain finite-dimensional algebras generated by two idempotents, Indagationes Mathematicae 23 (2012), 715-732 (with A. Böttcher). MR2991920.
300. A remark on polynomial matrix factorization theorem, Georgian Mathematical Journal 19 (2012), 489-495 (with L. Ephremidze). MR2984501.
301. Factorizations, Riemann-Hilbert problems and the Corona Theorem, J. London Math. Soc. 86 (2012), 852-878 (with M. C. Câmara, C. Diogo, and Yu. I. Karlovich). MR3000833.
302. The factorization problem: some known results and open questions, Operator Theory: Advances and Applications 229 (2013), 101-122 (with A. Böttcher). MR3060410.
303. Compressions of linearly independent selfadjoint operators, Linear Algebra and Applications 436 (2012), 3757-3766 (with L. Rodman). MR2900751.
304. Numerical ranges of companion matrices: flat portions on the boundary, Linear and Multilinear Algebra 60 (2012), 1295-1311 (with J. Eldred and L. Rodman). MR2989764.
305. Pseudodifferential operators on variable Lebesgue spaces, Operator Theory: Advances and Applications 229 (2013), 173-183 (with A. Karlovich). MR3025495.
306. Kernels of asymmetric Toeplitz operators and applications to almost periodic factorization, Complex Analysis and Operator Theory 7 (2013), 375-407 (with M. C. Câmara and Yu. I. Karlovich). MR3037055.
307. The possible shapes of numerical ranges. Operators and Matrices 6 (2012), 607-611 (with J. W. Helton). MR2987030.
308. Ratio numerical ranges of operators. Integral Equations and Operator Theory 71 (2011), 245-257 (with L. Rodman). MR2012h:47096.
309. Numerical ranges of Toeplitz operators with matrix symbols, Linear Algebra and Applications 436 (2012), 1721-1726 (with N. Bebiano).
310. Factorization versus invertibility of matrix functions on compact Abelian groups, Operator Theory: Advances and Applications 218 (2012), 225-239 (with A. Brudnyi and L. Rodman). MR2931930.
311. On singular integral operators with semi-almost periodic coefficients on variable Lebesgue spaces, Journal of Mathematical Analysis and Applications 384 (2011), 706-725 (with A. Karlovich). MR2012g:47139.
312. Non-denseness of factorable matrix functions, Journal of Functional Analysis 261 (2011), 1969-1991 (with A. Brudnyi and L. Rodman). MR2012h:47029.
313. Numerical ranges of cube roots of the identity, Linear Algebra and Applications 435 (2011), 2639-2657 (with T. R. Harris, M. Mazella, L. J. Patton, and D. Renfrew). MR2012g:47019.
314. Constructive factorization of some almost periodic triangular matrix functions with a quadrinomial off diagonal entry, Journal of Mathematical Analysis and Applications 376 (2011), 625-640 (with M. A. Bastos, A. Bravo, and Yu. I. Karlovich). MR2012f:47050.
315. The ratio field of values, Linear Algebra and Applications 434 (2011), 1119-1136 (with E. Einstein, C. R. Johnson and B. Lins). MR 2012a:15038.
316. On certain finite-dimensional algebras generated by two idempotents, Linear Algebra and Applications 435 (2011), 1823-1836 (with A. Böttcher). MR 2012d:15039.
317. Projective free algebras of continuous functions on compact abelian groups, Journal of Functional Analysis 259 (2010), 918-932 (with A. Brudnyi and L. Rodman). MR 2011m:46083.
318. Constructive almost periodic factorization of some triangular matrix functions, Journal of Mathematical Analysis and Applications 367 (2010), 416-433 (with M. C. Câmara and Yu. I. Karlovich). MR 2011h:47052.
319. A gentle guide to the basics of two projections theory, Linear Algebra and Applications 432 (2010), 1412-1459 (with A. Böttcher). MR 2010k:47004.
320. On common invariant cones for families of matrices, Linear Algebra and Applications 432 (2010), 911-926 (with L. Rodman and H. Seyalioglu). MR2011d:15051.
321. Almost periodic polynomial factorization of some triangular matrix functions, Operator Theory: Advances and Applications 202 (2010), 337-354 (with Yu. Karlovich).
322. Almost periodic factorization of $2 \times 2$ triangular matrix functions: New cases of off diagonal spectrum, Operator Theory: Advances and Applications 202 (2010), 469-487 (with A. Rastogi and L. Rodman). MR2012a:47045.
323. Matrices with normal defect one, Operators and Matrices 3 (2009), 401-438 (with D.Kalyuznyi-Verbovetsky and H. Woerdeman). MR2011c:47017.
324. Connectedness of spectra of Toeplitz operators on Hardy spaces with Muckenhoupt weights over Carleson curves, Integral Equations and Operator Theory 65 (2009), 83114 (with A. Karlovich). MR 2010j:47034.
325. Drazin inversion in the von Neumann algebra generated by two orthogonal projections, J. Math. Anal. Appl. 358 (2009), 403-409 (with A. Böttcher). MR 2010e:47003.
326. Almost periodic factorization of some triangular matrix functions, Operator Theory: Advances and Applications 190 (2009), 171-190 (with M. C. Câmara and Yu. I. Karlovich). MR 2010k:47038
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469. The Riemann boundary value problem with a Hermitian matrix, Dokl. Akad. Nauk SSSR 221 (1975), no. 6, 1280-1283. (with A.M.Nikolaichuk). MR 53 \# 8444 (English translation in Soviet Math. Dokl. (1975), no. 6, 533-536).
470. Stability of partial indices of the Riemann boundary value problem with a strictly nondegenerate matrix, Dokl. Akad. Nauk SSSR 218 (1974), 46-49. MR 52 \# 767 (English translation in Soviet Math. Dokl. 15 (1974), no. 5, 1267-1271).
471. The reconstruction of a unitary operator from two of its diagonal blocks, Mat. Issled. 8 (1973), no. 4 (30), 187-193. MR 50 \# 2997.

## Conference proceedings

31. On partial indices of triangular matrix functions, Abstracts of the Second International conference "Mathematics in Armenia" (2013), 73 (with A. G. Kamalyan).
32. Banach algebras generated by $N$ idempotents and applications, Abstracts of papers presented to the American Mathematical Society 18 (1997), no. 1, 112 (with $A$. Böttcher, I. Gohberg, Yu. Karlovich, N. Krupnik, S. Roch, and B. Silbermann).
33. Semi-Fredholmness of Toeplitz operators with (semi) almost periodic matrix symbols, Abstracts of papers presented to the American Mathematical Society 15 (1994), no. 6, 555 (with Yu. Karlovich).
34. Fredholmness of singular integral operators and related properties of Hunt-MuckenhouptWheeden weights, Abstracts of papers presented to the American Mathematical Society 15 (1994), no. 2, 316 (with I.Gohberg and N.Krupnik).
35. Positive extensions of almost periodic functions, Abstracts of papers presented to the American Mathematical Society 14 (1993), no. 3, 364 (with H.Woerdeman).
36. Analytic solution of the model Boltzmann equation with the collision operator of compound type, Modern mathematical methods in transport theory, Proc. 11th Int. Conf. Symp., Blacksburg/VA (USA) 1989, Operator Theory: Advances and Applications 51 (1991), 189-199 (with A.V.Latyshev, M.N.Gajdukov).
37. Toeplitz operators with $P C$ symbols in weighted spaces, Abstracts of papers presented to the American Mathematical Society 12 (1991), no. 1, 123.
38. On convergence of approximate solutions for one class of singular integral operators, Proceedings of the All-Union school on Approximation Theory (1989), 96-98 (with G.S.Litvinchuk, A.M.Tashbaev).
39. Matrix Riemann-Hilbert boundary value problem and its application in the kinetic theory, Proceedings of the 4th International Conference on the differential equations and applications, Ruse, Bulgaria (1989), 433-443 (with A.V.Latyshev).
40. Singular integral operators in $L_{p, \rho}$ spaces with the Muckenhoupt weight, Proceedings of the regional Conference "Linear operators in functional spaces", Grozny (1989), 155-156.
41. Factorization of some block-triangular almost-periodical matrix functions, Proceedings of the 14th All-Union school on the operator theory in functional spaces, Novgorod (1989), 49 (with P.M.Tishin).
42. On the stability of finite section method for some singular integral equations in $F l_{p}$, Proceedings of the 4th All-Union Symposium "Methods of discrete singularities in the problems of mathematical physics", Kharkov (1989), 253-256 (with A.M.Tashbaev).
43. Factorization of piecewise constant $2 \times 2$-matrices and its applications, Proceedings of the 13th All-Union school on the operator theory in functional spaces, Kuibyshev (1988), 176-177 (with A.M.Tashbaev).
44. On some systems of singular integral equations which are solvable in an explicit form, Proceedings of the Republican Conference on differential and integral equations and their applications, Odessa (1987), 99-100 (with A.M.Tashbaev).
45. On operators from the algebra generated by two orthoprojections, Proceedings of the 12th All-Union school on the operator theory in functional spaces, Tambov (1987), 86.
46. On the factorization of measurable matrix functions in $L_{p, \rho}$ classes with power weight, Proceedings of the 3rd All-Union Symposium"Method of discrete singularities in the problems of mathematical physics", Kharkov (1987), 156-158.
47. New applications of the Factorization method in integral equations, Proceedings of the 9th Soviet-Czechoslovak Conference "Applications of functional methods in mathematical physics", Donetsk (1986), 90 (with G.S.Litvinchuk).
48. On the factorization of almost-periodic matrix-functions, Proceedings of the 11th AllUnion school on the operator theory in functional spaces, Cheljabinsk (1986), 115.
49. On the solvability of generalized Carlemann boundary value problem, Proceedings of the regional scientific Conference, Kuibyshev (1984), 67-68 (with Yu.D.Latushkin, G.S.Litvinchuk).
50. Singular integral equations with piecewise-sectorial matrix coefficients, Proceedings of the 8th All-Union school on the operator theory in functional spaces, Riga (1983).
51. Model of "predator-victim" type of the association structured by the parameter, Proceedings of the Republican Conference "Theory and practise of imitating simulation of compound systems", Odessa (1983) (with Yu.D.Latushkin).
52. Applications of integral and functional equations in problems of economical-ecological systems simulation, Proceedings of the RepHublican Conference "Integral equations in applied simulation", Kiev (1983) (with V.K.Bulitko, A.A.Karelin).
53. Singular integral operators with matrix coefficients of class $S A P$ and their applications to the systems of convolution type equations on a finite interval, Proceedings of the Conference "High speed hydrodynamics and boundary value problems", Krasnodar (1982) (with Yu.I.Karlovich).
54. Noethericity, $n$ - and $d$-normality of singular integral operators with matrix coefficients admitting the discontinuities of semi-almost-periodic type, Proceedings of the 7 th All-Union school on the operator theory in functional spaces, Minsk (1982) (with Yu.I.Karlovich).
55. The Noether theory of the systems of convolution type equations in spaces of Bessel potentials, Proceedings of the 3rd Republican Symposium on differential and integral equations, Odessa (1982), 194-195.
56. A criterion for the subnormality of operators, Proceedings of the 15 th Voronezh winter mathematical school, Manuscript no. 5691-81, deposited at VINITI 12/16/81, 103-104.
57. One model of separable programming in the problem of fleet's and port's resources distribution, Proceedings of the 1st All-Union Conference "Management of production and automatized systems of management", Moscow, 1980 (with G.A.Besfamilny).
58. On the simulation of the optimization problem of freight ship's treatment, the same Proceedings (with G.A.Besfamilny).
59. Some peculiarities of forming of water resources economical estimate, Proceedings of the Republican Conference "Application of mathematical methods in economical and ecological researches of water environment" (with A.N.Bukreev), Odessa, 1979.
60. The stability of the generalized Riemann boundary value problem, Proceedings of the 2nd Republican Symposium on Differential and Integral equations, Odessa, 1978 (with G.S.Litvinchuk).
61. Theorems on stability and estimates of partial indices of Riemann boundary value problem and their applications, Proceedings of the 4th Republican Conference of Byelorussian mathematicians, Minsk, 1975.

## Research reports from contract work

4. Mathematical models of economical-ecological processes, Manuscript no. 5505-86, deposited at VINITI 07/28/86, 93 pp . (with V.K.Bulitko, Yu.D.Latushkin).
5. Analysis and optimization of the interaction in the "fleet-port" system, Scientific Report (1982), Economics and Ecology of the World Ocean Branch of the Marine Hydrophysical Institute, Ukrainian Academy of Sciences (with G.A.Besfamilny).
6. On the methodology of economical estimate and quality control of water resources, Scientific Report (1980), Economical Institute, Ukrainian Academy of Sciences (with G.S.Litvinchuk, Yu.I.Karlovich).
7. Improvement of the economic machinery of sea transport, Scientific Report (1980), Economical Institute, Ukrainian Academy of Sciences (with G.A.Besfamilny).

## Other publications

28. Reinvigorating the Wiener-Hopf technique in the pursuit to understand processes and materials, National Science Review 8 (2021), nwaa225 (with I. D. Abrahams, A. Kisil, G. Mishuris, M. Nieves and S. Rogosin).
29. Rajendra Bhatia and his mathematical achievements, Advances in Operator Theory 5 (2020), 850-863 (with T. Ando, C. Davis, T. Jain, F. Kittaneh and M. S. Moslehian). MR4126810.
30. Remembering Leiba Rodman 1949-2015), Operator Theory: Advances and Applications 262 (2018), 3-12 (with J. A. Ball, M. A. Kaashoek, and A. C. M. Ran).
31. The beginning (the way I remember it), Operator Theory: Advances and Applications 259 (2017), 41-46. MR3644511.
32. Preface to the special LAA volume, Linear Algebra and its Applications 470 (2015), 1-3 (with J. Ball, J. Berhndt, and C. Mehl).
33. Special types of Matrices, Handbook of Linear Algebra, 2nd edition, CRC Press, Boca Raton, FL, 2014, 22-1-22-20 (with A. Böttcher).
34. Preface and Introduction to Convolution Equations and Singular Integral Operators, Operator Theory: Advances and Applications 206, Birkhäuser-Verlag, Basel-Boston, 2010, vii-xxii (with L. Lerer and V. Olshevsky).
35. The XIXth International Workshop on Operator Theory and its Applications, Operator Theory: Advances and Applications 202, Birkhäuser-Verlag, Basel-Boston, 2010, ix-xi (with J. A. Ball, V. Bolotnikov, J. W. Helton and L. Rodman).
36. Short biography of Shmuel Friedland for his special LAA volume, Linear Algebra and Applications 431 (2009), 2277-2284 (with A. Berman, C. Krattenthaler, S. M. Ramp and F. Zhang).
37. Drazin inversion in the von Neumann algebra generated by two orthogonal projections, Preprint 2009-02, Technische Universität Chemnitz (2009), 11 pp. (with A. Böttcher).
38. My Gohberg encounters, Israel Gohberg and Friends. On the Occasion of his 80th Birthday, Birkhäuser (2008), 321-322.
39. Introduction. Special issue dedicated to Antonio Avantaggiati on the occasion of his 70th birthday, Acta Appl. Math. 65 (2001), Nos. 1-3, 1-7 (with G. Bruno and A. Pankov).
40. Toeplitz operators with semi-almost periodic matrix symbols on Hardy spaces, Preprint \# 276, Departamento de Matemáticas, CINVESTAV del I.P.N. (2000), 23 pp. (with A. Böttcher and Yu. Karlovich).
41. Factorization of piecewise constant matrix functions and systems of linear differential equations, Preprint 1999-048, MSRI, 59 pp. (with T. Ehrhardt).
42. Two papers on inverse problems for the partial indices of matrix functions, Preprint 98-34, Technische Universität Chemnitz, Fakultät für Mathematik (1998), 41 pp. (with A. Böttcher and S. M. Grudsky).
43. Almost periodic factorization of block triangular matrix functions revisited, Preprint 28/98, Instituto Superior Técnico, Departamento de Matemática (1998), 35 pp. (with Yu. Karlovich and R. Walker).
44. On totally real non-compact manifolds globally foliated by analytic discs, Preprint 97 08, Technische Universität Bergakademie Freiberg (1997), 17 pp. (with E. Wegert and G. Khimchiachvili).
45. Almost periodic factorization of block triangular matrix functions with a singular constant term in their off-diagonal block, Technical Report 97-1, University of Washington, Department of Applied Mathematics (1997), 47 pp. (with D. Yong).
46. On a new algorithm for almost periodic factorization, Preprint 12/96, Instituto Superior Técnico, Departamento de Matemática (1996), 21 pp. (with M. A. Bastos, Yu. Karlovich and P. Tishin).
47. Singular integral operators on composed curves, Preprint, Technische Universität ChemnitzZwickau (1996), 78 pp. (with C. Bishop, A. Böttcher, and Yu. Karlovich).
48. Pseudodifferential operators with heavy spectrum Preprint 246/7, Technische Universität. Chemnitz (1993), 19 pp. (with A.Böttcher).
49. Generalized Abel integral operators on the spaces with Rooney weights, Preprint 1514, Techn. Hochsch. Darmstadt, FB Mathematik (1992), 7 pp. (with F. Penzel).
50. Matrix Riemann-Hilbert boundary value problem in the problems of isothermal and thermal gas gliding, Manuscript no. 580-B89, deposited at VINITI 01/24/89, 3-42 (with A.V.Latyshev).
51. Factorization of some piecewise constant matrix functions and its applications, Manuscript no. 4726-B88, deposited at VINITI 06/15/88, 35 pp. (with A.M.Tashbaev).
52. Application of differential equations in some natural science problems, Methodical Report (1988), 25 pp. (with A.N.Kvitko), Odessa State Pedagogical Institute.
53. Factorization of matrix functions and its applications, Doctoral dissertation (1987), 300 pp., Mathematical Institute, Georgian Academy of Sciences, Tbilisi.
54. Noethericity criterion for block-triangular operators and problems of the theory of matrix function factorization, Manuscript no. 2543-81, deposited at VINITI 05/28/81, 23 pp. Annotation in Sibirsky Matem. Zh. 23 (1982), no. 1.
55. Factorization of measurable matrix functions and its applications to boundary value problems for analytic functions, Candidates dissertation (1978), 160 pp., Byelorussian State University, Minsk.

## Public presentations (from 1988)

January 21st Voronezh winter mathematical school, USSR
February Conference on bounded value problems devoted to the memory of F. Gahov, Odessa, USSR (plenary talk)
June All-Union Conference on approximate solving of integral equations, Pushchino, USSR
August International Conference on Operator Theory: Advances and Applications, Calgary, Alberta, Canada (plenary talk)

September All-Union Conference on Integral Equations and Mathematical Analysis, Teberda, USSR
October Technical University, Chemnitz, and Leipzig University, Germany (colloquia talks) 13th All-Union school on the Operator Theory in Function Spaces, Kuibyshev, USSR

1989
January 22nd Voronezh winter mathematical school, USSR
February 2nd Conference on bounded value problems devoted to the memory of F.Gahov, Odessa, USSR
March All-Union Conference on Complex Analysis and its applications, Chernogolovka, USSR (plenary talk)
May Mathematical Institute, Polish Academy of Sciences, Krakow, Poland (series of lectures),
October International seminar on Schur Analysis, Leipzig, Germany
December Vienna University, Austria

1990
April Conference on Function Spaces, South Illinois University, Edwardsville
(plenary talk)
College of William and Mary, Williamsburg, VA
May City College, City University of New York
October University of Maryland, College Park
November 2nd SIAM Conference on Linear Algebra in Signals, Systems \& Control, San Francisco, CA

1991
January Brigham Young University, Provo, Utah
Joint Mathematics Meeting of AMS, MAA, SIAM, San-Francisco, CA
7th Annual South-Eastern Analysis Meeting, University of North Carolina
at Charlotte
February Howard University, Washington, DC
March West Virginia University, Morgantown, WV
University of Toronto, Canada
April University of Oklahoma, Norman
May Carleton University, Ottawa, Canada
Canadian Operator Symposium, University of Montreal, Canada
Great Plains Operator Theory Symposium, Texas A\&M University,
College Station, TX
September 4th SIAM Conference on Applied Linear Algebra, University of Minnesota, MN
November Virginia Polytechnic Institute and State University, Blacksburg

June Chemnitz Technical University, Germany
July Institute for Applied Analysis and Stochastics, Berlin, Germany
Techniche Hochschule, Darmstadt, Germany
First European Congress of Mathematics, Paris, France
Workshop on Matrix Theory, University of Bielefeld, Germany
August 2nd Conference of the International Linear Algebra Society, Lisbon, Portugal Workshop on Numerical Ranges and Numerical Radii, College of William and Mary
September Wabash Modern Analysis Conference, Indianapolis, IA (plenary talk)
Toeplitz and Wiener-Hopf Operators Conference, University of California, Santa Cruz, CA

March Old Dominion Operator Theory and Analysis Conference, University of Richmond, VA
9th Annual South-Eastern Analysis Meeting, Memphis State University, TN
April 881st Meeting of the AMS, Howard University, Washington, D.C.
October Northeastern Operator Algebra/Operator Theory Meeting West Chester University, PA
Functional Analysis on the Eve of the Twenty-first Century, Rutgers University, New Brunswick, NJ

1994
January International Conference on Harmonic Analysis and Operator Theory Caracas, Venezuela (plenary talk)
International Meeting on Singular Integral and Pseudo-Differential Operators and their Applications, Oberwolfach, Germany
March 891st Meeting of the AMS, Kansas State University
SUNY at Buffalo, Buffalo, NY
April Third Old Dominion Operator Theory and Analysis Conference, University of Richmond, VA
May Second Conference on Function Spaces, South Illinois University, Edwardsville
Banach International Mathematical Center, Warsaw, Poland
Chemnitz Technical University, Germany
Mining Academy of Freiberg, Germany
June The Interaction between Functional Analysis, Harmonic Analysis, and Probability, University of Missouri at Columbia

18th Symposium on Real Analysis, University of Virginia, Charlottesville
July Instituto Superior Tecnico, Lisbon, Portugal
August 2nd Workshop on "Numerical ranges and numerical radii", University of Coimbra, Portugal
October The legacy of Norbert Wiener: A centennial symposium, MIT, Cambridge, MA
November
896th Meeting of the AMS, University of Richmond, VA
Universidad Autonoma, Madrid, Spain
December International Conference on Operator Theory for Complex and Hypercomplex Analysis, Mexico City, Mexico

1995
March

April
May Instituto Superior Tecnico, Lisbon, Portugal
University of Algarve, Faro, Portugal
June NSF-CBMS Conference on Approximation Dynamics with Applications
to Numerical Analysis, University of Missouri, Columbia, MO
August International Workshop on Operator Theory and Applications, University of Regensburg, Germany
October Wabash Modern Analysis Seminar, Crawfordsville, IN
Indiana University, Bloomington, IN

1996
March

May

June
August 6th Conference of the International Linear Algebra Society, Chemnitz, Germany
October University of Maryland, College Park
December Conference on Modern Banach Space Theory, Kent State University, OH

1997
January 918th Joint Meeting of the AMS, MAA and SIAM, San Diego, CA

May

June 1998

July International Workshop on Operator Theory and Applications University of Groningen, the Netherlands
August International Congress of Mathematicians, Berlin, Germany
November Virginia Operator Theory and Complex Analysis Meeting, University of Richmond (two plenary talks)

1999
January University of Toronto, Canada
March 940th Meeting of the AMS, University of Florida, Gainesville International Conference on Recent Advances in Analytic and Numerical Treatment of Operator Equations, Klaffenbach, Germany
May 15th Annual South-Eastern Analysis Meeting, Vanderbilt University, Nashville TN
2000
January Joint Mathematics Meeting of AMS, MAA, SIAM, Washington, D.C.
March XVI South Eastern Analysis Meeting, Charlottesville, VA
May University of Erlangen, Germany
Academy of Czech Republic, Prague
June International Workshop on Operator Theory and Applications, Bordeux, France
5th International Workshop on the Numerical Ranges, Nafplio, Greece

| September | International Workshop on Operator Theory and Applications <br> Summer School on Factorization and Integrable Systems <br> University of Algarve, Faro, Portugal |
| :--- | :--- |
| December | North-South Analysis seminar at CINVESTAV, Mexico City, Mexico |
| 2001 |  |
| February | Matrix Theory Seminar, University of Coimbra |
| March | XVII South Eastern Analysis Meeting, University of Georgia, Athens, GA |
| April | International Conference on Toeplitz Matrices in Honor of Bernd Silbermann, |
|  | Pobershau/Erzegbirge, Germany |
| June | University of Algarve, Faro, Portugal |
|  | Instituto Superior Tecnico, Lisbon, Portugal |
| Computational methods and function theory, University of Aveiro, Portugal |  |
| July | SIAM Conference on control and its applications, San Diego, CA |
| August | Third International Congress of the ISAAC (International Society <br> for Analysis, its Applications and Computation), Berlin, Germany |
| October | Trends in Banach spaces and Operator Theory, Memphis, TN |
| November | Integrable Systems Seminar, Duke University, NC |

2002
January International Conference on Factorization, Singular Operators and Related Problems, Universidade da Madeira, Portugal
March XVIII South Eastern Analysis Meeting, University of North Carolina, Chapel Hill
University of Arkansas, Fayetteville (colloquium talk)
975th AMS Meeting, Georgia Tech, Atlanta, GA
Georgia State University, Atlanta (colloquium talk)
April University of Leeds, UK (colloquium talk)
Functional Analysis seminar, University of Newcastle, UK
May University of Sussex, UK
London Analysis seminar, UK
Yorkshire Functional Analysis group, UK
June 6th International Workshop on the Numerical Ranges, Auburn University, AL
August Bell Laboratories, Lucent Technologies, NJ
September San Francisco State University, CA (colloquium talk)
October Abȯ Akademie, Finland
Analysis Seminar, Michigan State University, East Lansing
Kent State University, OH (colloquium talk)
November 982nd Meeting of the AMS, University of Central Florida, Orlando
University of Bremen, Germany
Chemnitz Technical University, Germany
December Matrix Theory Seminar, University of Coimbra, Instituto Superior Tecnico, Lisbon, Portugal

January IUPUI, IN (colloquium talk)
February Seminar of the Numerical Analysis and Computational Mathematics Group, University of Cagliari, Italy
Seminar of the Department of Mathematics, University of Pisa, Italy
March XIX South Eastern Analysis Meeting, University of Tennessee, Knoxville, TN
April Analysis Seminar, University of California, Berkeley
Cal Poly State University, San Luis Obispo (colloquium talk)
Operator Theory Seminar talk, Cal Poly State University, San Luis Obispo
May Universite Catholique de Louvain, Belgium
Vrije Universiteit, Amsterdam, the Netherlands
Third Conference of the European Research Network "Analysis and Operators"
Tenerife, Canary Islands, Spain
University of Namur, Belgium
August Fourth International Congress of the ISAAC (International Society for Analysis, its Applications and Computation), Toronto, Canada
December International Conference on Matrix Analysis and Applications, Nova Southeastern University, Fort Lauderdale, Florida

February University of Virginia, Charlottesville (colloquium talk)
March Florida Atlantic University, Boca Raton (colloquium talk)
June University of Pisa, Italy (crash lecture course)
November Southern California Matrix Meeting, San Jose State University, CA

2005
April University of Central Florida, Orlando (colloquium talk)
XXI South Eastern Analysis Meeting, Washington and Lee University, Lexington, VA
May New Perspectives for Boundary Value Problems and their Asymptotics NSF-CBMS research conference, UTPA, Edinburg, TX
June 5th International Conference on Matrix Analytic Methods in Stochastic Models Pisa, Italy (plenary talk)
July International Workshop on Operator Theory and Applications, Storrs, CT (semi-plenary talk)
December Seminar talks, Universities of Minho, Porto, and Coimbra, Portugal

February Special Semester on Gröbner Bases and Related Methods, Radon Institute for Computational and Applied Mathematics, Linz, Austria
March XXII South Eastern Analysis Meeting, University of Florida, Gainesville, FL

| July | University of Miami (colloquium talk) |
| :---: | :---: |
|  | 8th Workshop on "Numerical ranges and numerical radii", |
|  | University of Bremen, Germany |
| August | International Workshop on Operator Theory and Applications, Seoul National University South Korea (plenary talk) |
| September | International Workshop on Operator Algebras, Operator Theory and Applications, Instituto Superior Tecnico, Lisbon, Portugal (plenary talk) |
| December | 2nd International Workshop on Matrix Analysis and Applications |
|  | Nova Southeastern University, Fort Lauderdale, Florida |
| 2007 |  |
| January | CINVESTAV, Mexico City, Mexico (colloquium talk) |
| March | University College, London (colloquium talk) |
|  | XXIII South Eastern Analysis Meeting, University of Richmond, VA |
| April | 1027th AMS meeting, University of Arizona, Tucson (invited special session talk) |
| May | Drexel University (colloquium talk) |
|  | AMS-SMM Joint Meeting, Zacatecas, Mexico (invited special session talk) |
| June | Instituto Superior Tecnico, Lisbon, Portugal |
|  | (Functional Analysis and Applications seminar) |
| July | Cal Poly State University, San Luis Obispo (colloquium talk) |
| September | Workshop on the Riemann-Hilbert problem and Toeplitz operators, Heriot-Watt University, Edinburgh, Scotland (plenary talk) |
| 2008 |  |
| January | Instituto Superior Tecnico, Lisbon, Portugal |
|  | (Functional Analysis and Applications seminar) |
| April | University of Alaska Fairbanks, AK (colloquium talk) |
| May | International Workshop on Analysis, Operator Theory and Applications |
|  | Cancun, Mexico (plenary talk) |
|  | 6 th International Conference on Differential Equations and Dynamical Systems |
|  | Morgan State University, Baltimore, MD (invited special session talk) |
|  | 5th Linear Algebra Workshop, Kranjska Gora, Slovenia |
| June | 15th Conference of the International Linear Algebra Society (ILAS) |
|  | Cancun, Mexico (plenary talk) |
| July | 9th International Workshop on the "Numerical Ranges and Numerical Radii", The College of William and Mary |
| September | Brown University, Providence, RI (Analysis seminar) |
| November | Virginia Operator Theory and Complex Analysis Meeting, |

Virginia Commonwealth University, Richmond (plenary talk)
Workshop on Toeplitz-like operators and related topics, CINVESTAV, Mexico City, Mexico (plenary talk)

2009
January The University of Southern Mississippi, Hattiesburg, MS (colloquium talk)
University of South Alabama, Mobile, AL (colloquium talk)
February Drexel University, Philadelphia, PA (Analysis seminar)
March

April Instituto Superior Tecnico, Lisbon, Portugal
(Seminar on Functional Analysis and Applications - two talks)
Barcelona Analysis Seminar, Spain
May University of Algarve, Faro, Portugal
2nd Najman Conference on Spectral Problems for Operators and Matrices, Dubrovnik, Croatia
Haifa Matrix Theory Conference, Israel
Complex Analysis \& Dynamical Systems IV, Nahariya, Israel
Universite Pieree et Marie Curie - Paris 6 (Functional Analysis seminar)
June University of Bordeaux, France
University of Marseille, France (Analysis seminar)
Meeting on Operators and Matrices, College of William \& Mary, Williamsburg, VA
October Functional Analysis Seminar, Oxford University, UK
London Analysis Seminar, University College London
December Courant Institute seminar, NYU
2010
January Cal Poly State University, San Luis Obispo (colloquium talk)
SUMO Speaker series, Stanford University
June International Summer School and Workshop "Harmonic Analysis and Related Topics", Lisbon, Portugal
July Instituto Superior Tecnico, Lisbon, Portugal
(Seminar on Functional Analysis and Applications)
International Workshop on Operator Theory and Applications, Berlin, Germany (semi-plenary 45 min talk)
October Workshop on Operator Theory, Complex Analysis and Applications Lisbon, Portugal
November 1065th Meeting of the AMS, University of Richmond, VA (invited special session talk)

| January | University of California in Santa Cruz (colloquium talk) |
| :---: | :---: |
|  | IUPUI, Indianapolis, IN (colloquium talk) |
| March | XXVII South Eastern Analysis Meeting, University of Florida, Gainesville |
| April | International seminar "Modern methods and problems of Operator Theory, Harmonic Analysis, and their Applications", Rostov-on-Don, Russia (invited lecture via video conference) |
|  | University of Tennessee in Chattanooga (colloquium talk) |
| June | Summer School and Workshop on Selected Topics of Operator Theory Lisbon, Portugal (course of three 90 minutes lectures) |
| July | Integral and Differential Operators and Their Applications, Aveiro, Portugal (plenary lecture) |
|  | Research Experience for Undergraduate Faculty (REUF) workshop American Institute of Mathematics, Palo Alto, CA (group leader) |
| September | International conference "Continuum Mechanics and related problems of Analysis" Tblisi, Georgia (plenary lecture) |
|  | 2nd International Conference of the Georgian Mathematical Union, Batumi, Georgia |
| December | Workshop on "Stability, hyperbolicity, and zero localization of functions" American Institute of Mathematics, Palo Alto, CA |
| 2012 |  |
| January | University of Strathclyde, Glasgow, UK (colloquium talk) |
|  | Brunel University, London, UK (Applied Mathematics and Analysis seminar) |
| March | Temple University, Philadelphia |
|  | (Applied Mathematics and Scientific Computing Seminar) |
| April | NYU at Abu Dhabi, UAE (Science seminar) |
|  | Second International Scientific Conference on Contemporary Methods, Problems and Applications of Operator Theory and Harmonic Analysis |
|  | Rostov-on-Don, Russia (invited lecture via video conference) |
|  | Cornell University, Ithaca, NY (Analysis seminar) |
| September | Workshop on Operator Theory and Operator Algebras |
|  | Lisbon, Portugal (invited speaker) |
| October | University of Connecticut (colloquium talk) |
| 2013 |  |
| January | University of Reading, UK (Analysis seminar) |
|  | Brunel University, London, UK (colloquium talk) |
| March | 29th Annual South-Eastern Analysis Meeting, |
|  | Virginia Tech, Blacksburg, VA |
|  | Louisiana State University, Baton Rouge, LA (colloquium talk) |
| May | Structured Quartet Research Ensembles program on " Possible shapes of the numerical ranges for certain classes of matrices", |
|  | American Institute of Mathematics, Palo Alto, CA (group leader) |


| June | Drexel University, Philadelphia, PA (Analysis seminar) |
| :---: | :---: |
|  | 18th Conference of the International Linear Algebra Society (ILAS) |
|  | Providence, RI (invited special session talk) |
|  | New Directions for Mathematics REUs, Mount Holyoke College, MA |
| August | 1st Mathematical Congress of the Americas, Guanajuato, Mexico (invited special session talk) |
| September | NYU at Abu Dhabi, UAE (Science seminar) |
| October | Istanbul Analysis Seminar, Turkey |
|  | International conference on Groups, Group Rings and Related Topics UAE University, Al-Ain, United Arab Emirates |
| December | 24th International Workshop on Operator Theory and Applications, Bangalore, India (invited special session talk) |
| 2014 |  |
| February <br> June | NYUAD Research Conference, Abu Dhabi, United Arab Emirates |
|  | Universidad Autónoma de Madrid and Instituto de Ciencias Matemáticas Madrid, Spain (colloquium talk) |
|  | Workshop on Operator Theory, Complex Analysis, and Applications Lisbon, Portugal |
|  | Third Wiener-Hopf Workshop, University of Aveiro, Portugal |
| August | 19th Conference of the International Linear Algebra Society (ILAS) |
|  | Seoul, Korea (invited special session talk) |
|  | ICM Satellite Conference on Operator Algebras and Applications |
|  | Cheongpung, Korea |
| October | National Technical University of Athens, Greece (seminar talk) |
| November | Conference on Mathematics and its Applications (CMA 2014), Kuwait |
| December | Seminar on Matrix Analysis of the Center for Mathematical Modeling and Scientific Computing at the National Chiao Tung University Hsinchu, Taiwan |
|  | Department of Applied Mathematics, National Sun Yat-sen University Kaohsiung, Taiwan |
| 2015 |  |
| March | University of Jordan, Amman |
| April | The Second International Conference on Mathematics and Statistics (AUS-ICMS'15), American University of Sharjah, UAE |
| May | Functional Analysis Seminar, Institute of Analysis and Scientific Computing Vienna University of Technology, Austria |
| June | Institute of Mathematics, Academy of Czech Republic, Prague Joint AMS-EMS-SPM International Meeting, Porto, Portugal (invited special session talk) |
| July | Humboldt Kolleg (invited talk), Georgian National Academy of Sciences |

26th International Workshop on Operator Theory and Applications Tbilisi, Georgia (invited 50 min and special session talks)
Swedish-Georgian Conference on Analysis and Dynamical Systems Tbilisi, Georgia (invited talk)
September University of Odessa, Ukraine
October University of Malaga, Spain
2016
March University of Salerno, Italy (seminar talk)
University of Bari Aldo Moro, Italy (seminar talk)
May University of Ljubljana, Slovenia (seminar talk)
June International conference on Complex Analysis and Related Topics,
Lviv, Ukraine (plenary talk)
Workshop on Operator Theory and Complex Analysis
Coimbra, Portugal (invited talk)
13th Workshop on "Numerical ranges and numerical radii", Soochow University, Taipei, Taiwan
July International Workshop on Operator Theory and Operator Algebras Lisbon, Portugal (plenary talk)
27th International Workshop on Operator Theory and Applications Washington University in St. Louis (invited special session talk)
October University of Crete, Greece (seminar talk)

2017
January Joint Mathematics Meeting of AMS and MAA, Atlanta, GA
(invited special session talk)
Portland State University, OR (Analysis seminar talk)
March Vrije Universiteit Amsterdam, the Netherlands
May Institute of Mathematics, Ukrainian Academy of Sciences, Kuiv
(Functional Analysis Seminar)
Kuiv Mathematical Society (colloquium talk)
June Hilbert Function Spaces Conference (Gargnano, Italy)
July Workshop on Operator Theory, Complex Analysis, and Applications Lisbon, Portugal
August 28th International Workshop on Operator Theory and Applications
Chemnitz Technical University, Germany (semi-plenary talk)
September Armenian Mathematical Society, Yerevan (colloquium talk)
October Workshop on Analysis and its Applications
American University of Sharjah, UAE
University of Catania, Italy (seminar talk)
November International conference on Groups, Group Rings and Related Topics, Khorfakkan, Sharjah, UAE

2018
February International Workshop on Operator Algebras, Quantum Probability \& Innovative Applications, UAE University, Al Ain (invited talk)
May Operators, Functions, and Systems of Mathematical Physics conference Baku, Azerbaijan (invited talk)
June Lulea University of Technology, Sweden 14th Workshop on "Numerical ranges and numerical radii", Technical University of Munich, Germany
July Technical University of Berlin, Germany
September 9th International Workshop on Analytic Methods of Analysis and Differential Equations Minsk, Belarus (Plenary talk)

Florida Atlantic University, Boca Raton, FL (colloquium talk) Nova Southeastern University, Fort Lauderdale, FL (colloquium talk)
April King Saud University, Riyadh, Saudi Arabia
May 3rd Workshop on expository lectures in Mathematics American University of Sharjah (invited lecture)
June The Fifteenth Workshop on "Numerical ranges and numerical radii", Toyo University, Kawagoe Campus, Japan
July Univesity of Stuttgart, Germany (colloquium talk)
30th International Workshop on Operator Theory and Applications Instituto Superior Tecnico, Lisbon, Portugal (semi-plenary talk)
August 12th International Congress of the ISAAC (International Society for Analysis, its Applications and Computation), Aveiro, Portugal Workshop on the "Factorization of matrix functions: New techniques and applications", Cambridge, UK
September International Conference "Morse theory and its applications", Kyiv, Ukraine
2020
Febuary The Third International Conference on Mathematics and Statistics (AUS-ICMS2020), American University of Sharjah, UAE
May International Workshop on Advanced Topics in Dynamical Systems (IWATDS-2020), University of Kufa, Iraq (online participation)
August International online seminar on "Analysis, Differential Equations and Mathematical Physics" Southern Federal University, Rostov-on-Don, Russia
October International conference "Functional Anlysis and Mathimatical Education" dedicated to 100th anniversary of the birth of Professor Avraam Straus Ulyuanovsk, Russia (online)

2021
May-June Research Experience for Undergraduate Faculty (REUF) workshop

|  | Houghton, MI (mentor; online participation) <br> June <br> Workshop on Operator Theory, Complex Analysis, and Applications |
| :--- | :--- |
| August | Lisbon, Portugal (online participation) <br> XI International Conference of the Georgian Mathematical Union <br> Batumi, Georgia (plenary talk - online participation) |

## Professional service

## University Committee service

College (William $\mathcal{E}^{3}$ Mary) or Science Faculty (NYUAD) -wide:
Library Policy Advisory Committee, Arts and Sciences Library Committee (1993-1997), Transportation Advisory Committee (Spring 2000 - Fall 2002), Integrity Panel (Fall 2017 Present)
Departmental (William E Mary) or Program (NYUAD) -wide:
Graduate Studies Committee (1992-1993, 1996 - 2000), Library Representative (19931995, 1997 - 2002), Grants Opportunities Committee (Fall 1998 - 2000), Computer Committee (Fall 1999), Honors Committee (Fall 2007 - Spring 2008), Personnel Committee (Fall 1995, Fall 2000 - Spring 2002, Fall 2003 - Spring 2006, Fall 2007 - Spring 2008), Search Committee (Fall 2004 - Spring 2005, Fall 2007 - Spring 2008), Colloquium Committee (Fall 2003 - Spring 2008, Fall 2009 - Spring 2013), Merit Evaluation Committee (Fall 1998 Spring 2000, Fall 2006 - Spring 2007, Fall 2009 - Spring 2012), Undergraduate Curriculum Committee (Fall 2012 - Spring 2013), Search Committee (Fall 2014 - Spring 2015), Curriculum Committee (Fall 2017 - Present),

## Other professional service

Editor for the special issues of Acta Appl. Math. devoted to Antonio Avantaggiati (v. 65, nos. 1-3, 2001), Complex Analysis and Operator Theory dedicated to Georgii Semenovich Litvinchuk (v. 2, no. 2 and 4, 2008), Linear Algebra and Applications dedicated to Professor Friedland (v. 431, 2009) and to Professor Rodman (v. 470, 2015), Special Matrices dedicated to Professor Johnson (v. 7, 2019), as well as IWOTA 2008 Proceedings (v. 202 and 203, 2010), "Convolution Equations and Singular Integral Operators" (v. 206, 2010), "Operator Theory, Pseudo-Differential Equations, and Mathematical Physics" (v. 228, 2013), "Operator Theory, Operator Algebras, and Applications" (v. 242, 2014), and "Large truncated Toeplitz matrices, Toeplitz operators, and related topics" (v. 259, 2017) of the series Operator Theory: Advances and Applications.

Reviewer for Mathematical Reviews and Zentralblatt (about 200 reviews written)
Referee (at an average rate of about 30 papers per year) for journals in operator theory, integral equations, boundary value problems, matrix theory, control theory, among which:

Proceedings of the National Academy of Sciences, Annals of Mathematics, Advances in Mathematics, Journal of the AMS, Transactions of the AMS, Proceedings of the AMS, Journal of the London Mathematical Society, Journal of the Australian Mathematical Society, Proceedings of the Royal Society of Edinburgh, Journal of Operator Theory, Journal of Functional Analysis and Applications, Journal of Mathematical Analysis and Applications, Journal of Inequalities and Applications, Journal of Physics A: Mathematical and Theoretical, Numerical Functional Analysis and Optimization, Michigan Mathematical Journal, Rocky Mountain J. Math., Linear Algebra and its Applications, Linear and Multilinear Algebra, Electronic Journal of Linear Algebra, SIAM J. Control and Optimization, Aequationes Mathematicae, Indagationes Mathematicae, Integral Equations and Operator Theory, Journal of Integral Equations and Applications, Indiana Journal of Mathematics, Complex Analysis and Operator Theory, Operators and Matrices, Operator Theory: Advances and Applications, Canadian Mathematical Bulletin, International Journal of Mathematics and Mathematical Sciences, St.Petersburg Math. J., Mathematische Nachrichten, Proceedings of the Armenian Academy of Sciences, Applied Mathematics and Computation, International Journal of Applied Mathematics and Computer Science, Automatica, CUBO, and others.

Conference organizer: Member of the Steering Committee, International Workshops on Operator Theory and its Applications (July 2008 - present)
Member of the Organizing Committee, Old Dominion Operator Theory and Analysis Conference (Williamsburg, VA, 1995).
Member of the NSF Operator Algebras/Operator Theory Panel (2000-2001).
Member of the Scientific Program Committee, International Conference "Factorization, singular operators and related problems" (Madeira, Portugal, January 2002)
Member of the Program Committee, International Workshop on Operator Theory and its Applications (Storrs, CT, July 2005)
Member of the Program Committee, International Workshop on Operator Theory and its Applications (Seoul, Korea, July-August 2006)

Member of the Scientific Program Committee, Summer School and a Workshop on Operator Algebras (Lisbon, Portugal, September 2006)
Special session organizer, Seventh Joint International Meeting of the AMS and the Sociedad Matematica Mexicana (Zacatecas, Mexico, May 2007)

Member of the Organizing Committee, The 19th International Workshop on Operator Theory and its Applications (Williamsburg, VA, 2008)
Special session organizer, The 20th International Workshop on Operator Theory and its Applications (Guanajuato, Mexico, September 2009)
Special session organizer, Eights Joint International Meeting of the AMS and the Sociedad Matematica Mexicana (Berkeley, CA, June 2010)

Member of the Organizing Committee, International Linear Algebra Society Conference (Pisa, Italy, June 2010)

Member of the Scientific Committee, Integral and Differential Operators and Their Applications (Aveiro, Portugal, July 2011)

Special session organizer, The 22nd International Workshop on Operator Theory and its Applications (Seville, Spain, July 2011)
Member of the Scientific Committee, International conference "Continuum Mechanics and related problems of Analysis" (Tbilisi, Georgia, September 2011)
Special session organizer, The 24th International Workshop on Operator Theory and its Applications (Bangalore, India, December 2013)
Member of the Scientific Committee, The Third Wiener-Hopf Workshop (Aveiro, Portugal, June 2014)

Member of the UAE Math Day 2015 Organizing and Scientific Committees
Special session organizer, AMS-EMS-SPM (American Mathematical Society, European Mathematical Society, and Sociedade Portuguesa de Matemática) International Meeting (Porto, Portugal, June 2015)

Special session organizer, The 26th International Workshop on Operator Theory and its Applications (Tbilisi, Georgia, July 2015)
Chair of the UAE Math Day 2016 Organizing and Scientific Committees
Mini-symposium organizer, Meeting of the International Linear Algebra Society (Iowa, July 2017)

Special session organizer, Joint Mathematics Meetings (San Diego, CA, January 2018)
Member of the Scientific Committee, International conference "Operators, Functions, and Systems of Mathematical Physics" (Baku, Azerbaijan, May 2018)
Special session organizer, Joint Mathematics Meetings (Baltimore, MA, January 2019)
Special session organizer, AMS Western Section Meeting (Fresno, CA, May 2020)
Member of the Program Committee, Conference devoted to the One hundred years Anniversary of Professor A. V. Shtraus (Ulyanovsk, Russia, October 2020)

Special session organizer, International Workshop on Operator Theory and its Applications (Krakow, Poland, September 2022)

