Curriculum Vitae (short)

1. Personal

Name: Carlos Kubrusly
Birth date: November 24, 1947
Birth place: Rio de Janeiro, Brazil
Nationality: Brazilian
Names in citations: Carlos S. Kubrusly; Carlos Kubrusly; C.S. Kubrusly; C. Kubrusly

2. Degrees

Ph.D. – Control Theory, University of Warwick, England, March 1976.
M.Sc. – Control Systems, Catholic University of Rio de Janeiro, May 1973.
B.Sc. – Electrical Engineering, Catholic University of Rio de Janeiro, December 1971.

3. Positions

Professor Emeritus, Catholic University of Rio de Janeiro, since 2019.
Collaborating Professor, Federal University of Rio de Janeiro, 2018–2021.
Professor, Catholic University of Rio de Janeiro, 1988–2018.
Full Researcher, National Laboratory for Scientific Computation, 1982–1999.
Associate Researcher, National Laboratory for Scientific Computation, 1980-1982.
Associate Professor, Catholic University of Rio de Janeiro, 1979–1988.
Assistant Professor, Catholic University of Rio de Janeiro, 1976–1979.
Undergraduate Tutor, University of Warwick, 1974.
Auxiliary Professor, Catholic University of Rio de Janeiro, 1973.
Auxiliary Researcher , Catholic University of Rio de Janeiro, 1972.
Undergraduate Tutor, Catholic University of Rio de Janeiro, 1971.

4. Career

▷ Postdoctoral researcher at: Control Theory Centre – University of Warwick (England, 1976), Mathematics Institute – University of São Paulo (Brazil, 1977), Institut für Okonometrie und Operations Research – Universität Bonn (Germany, 1979), Control Theory Centre – University of Warwick (England, 1979, 1980 and 1981).

▷ Lectures on: Algebraic and Topological Structures, Filtering, Functional Analysis, Hilbert Space Operators, Introduction to Measure Theory, Linear Systems, Measure on Topological Spaces, Models and Decomposition in Operator Theory, Partial Differential Equations, Real Analysis, Spectral Analysis, Stochastic Processes, System Identification.

▷ Thesis supervisor: 12 M.Sc students and 5 Ph.D students.

▷ Talks delivered at: Brazilian Center for Physics Research at Rio de Janeiro, Catholic University of Rio de Janeiro, Federal University at Niteroi, Federal University at Ouro Preto, Federal University at Rio de Janeiro, National Laboratory for Scientific Computation at Rio de Janeiro, Universität Bonn, Universität Bremen, Universität des Saarlandes at Saarbrucken, University of São Paulo, University of Warwick.

▷ Examiner: 41 M.Sc thesis and 25 Ph.D thesis.

▷ Reviewer: 94 articles for Mathematical Reviews, 22 articles for Zentralblatt für Mathematik, 4 articles Statistical Theory and Methods Abstracts.

▷ Referee for 79 international journals: Abstract and Applied Analysis, Academic Press/Elsevier Books, Acta et Commentationes Universitatis Tartuensis de Mathematica, Acta Mathematica Scientia, Acta Mathematica Universitatis Comenianae, Acta Scientiarum Mathematicarum (Szeged), Advances in Operator Theory, Annals of the Alexandru Ioan Cuza University–Mathematics, Annales Polonici Mathematici, Annales UMCS Mathematica–The Journal of Maria Curie-Sklodowska University, Applicable Analysis, Applied Mathematics–A Journal of Chinese Universities, Applied Mathematics and Optimization, Applied Mathematics Letters, Archiv der Mathematik, Asian Journal of Mathematics and Computer Research, Automatica–The IFAC Journal, Birkhäuser/Springer Books, Bulletin of the Belgium Mathematical Society, Bulletin of the Brazilian Mathematical Society, Bulletin of the Korean

Mathematical Society, Bulletin of Mathematical Analysis and Applications, Bulletin of Pure and Applied Mathematics, Communications of the Korean Mathematical Society, Complex Analysis and Operator Theory, Computational and Applied Mathematics, Concrete Operators, Cubo - A Mathemtical Journal, Demonstratio Mathematica, Far East Journal of Mathematical Sciences, Filomat, IEEE Transactions on Automatic Control, IEEE Transactions on Circuits and Systems, IEEE Transactions on Neural Networks and Learning Systems, Indian Journal of Pure and Applied Mathematics, Indagationes Mathematicae, International Journal of Functional Analysis Operator Theory and Applications, Journal of Advances in Mathematics and Computer Science, Journal of Computational and Theoretical Transport, Journal of Inequalities and Applications, Journal of Optimization Theory and Applications, Journal of the London Mathematical Society Kragujevac Journal of Mathematics, Large Scale System Theory and Applications, Le Matematiche, Lecture Notes in Mathematics/Springer, Linear Algebra and its Applications, Linear and Multilinear Algebra, Matematicki Vesnik, Mathematica Slovaca, Mathematical Journal of Madrid Academy of Sciences–RACSAM, Mathematical Problems in Engineering, Mathematics MDPI, Mathematische Nachrichten, Mediterranean Journal of Mathematics, Methods of Functional Analysis and Topology Note di Matematica, Numerical Functional Analysis and Optimization, Operators and Matrices, Physica D: Nonlinear Phenomena, Problemy Analiza–Issues of Analysis, Portugaliae Mathematica, Proceedings 1985 American Control Conferences, Proceedings 1985 IEEE Conferences on Decision and Control, Proceedings 1986 IEEE Conferences on Decision and Control, Proceedings 5th IFAC Symposium on Control of Distributed Parameter Systems, Proceedings 10th IFAC World Congresses, Proceedings 2005 IFAC World Congress, Proceedings 2007 Operator Theory Conference, Proceedings of the American Mathematical Society, Proceedings of the London Mathematical Society, Rendiconti del Circolo Matematico di Palermo, Rocky Mountain Journal of Mathematics, Sarajevo Journal of Mathematics, SIAM Journal of Control and Optimization, Studia Universitatis Babes-Bolyai Mathematica, Systems and Control Letters, Topological Methods in Nonlinear Analysis, Ukrainian Mathematical Journal.

▷ Elected member of several committees at Catholic University of Rio de Janeiro and National Laboratory for Scientific Computation, Rio de Janeiro. Member of promotion and admission committees at Catholic University of Rio de Janeiro, Federal University at Rio de Janeiro, Federal University at Niteroi, Institute of Pure and Applied Mathematics at Rio de Janeiro, National Laboratory for Scientific Computation at Rio de Janeiro, Polytechnic Institute of Rio de Janeiro, State University of Campinas, State University of Rio de Janeiro, University of São Paulo.

▷ Scientific consultant for the Brazilian Ministry of Education, Brazilian National Research Council, Rio de Janeiro State Research Council.

▷ Member of the international program committees for the 4th IFAC Symposium on Control of Distributed Parameter Systems at Los Angeles in 1986, 1st IFAC Workshop on Sensors and Actuators in Distributed Parameter Systems at Perpignan in 1987, 5th IFAC Symposium on Control of Distributed Parameter Systems at Perpignan in 1989, 1st International Conference on Semigroups of Operators: Theory and Applications at Newport Beach in 1998, 2nd International Conference on Semigroups of Operators: Theory and Applications at Rio de Janeiro in 2001, CFL–80 International Conference at Rio de Janeiro in 2010.

▷ Participation in 16 international conferences, and 24 national conferences, all with paper presentation. Plenary section at the Toulouse IFAC Symposium in 1982 and at the Newport Beach SOTA1 Conference in 1998.

▷ Financial support (approximately US$450,000.00 received along the years) for individual research supplied by Brazilian Ministry of Education, Brazilian National Research Council, Brazilian Telecommunications, British Council, French Government, IBM Brazil, Rio de Janeiro State Research Council.

▷ Editor (with C.A. de Moura) of the book ***The Courant–Friedrichs–Lewy (CFL) Condition*** (Proceedings of the International Conference: CFL condition - 80 years gone by), Birkhäuser/Springer, New York, 2013; Editor (with N. Levan and M.A. da Silveira) of the book ***Semigroups of Operators***: ***Theory and Applications*** (Proceedings of the 2nd International Conference on Semigroups of Operators: Theory and Applications), Optimization Software Publ., Los Angeles, 2002; Editor of the journal ***Computational and Applied Mathematics*** from 1981 to 1998 – Chief Editor from 1992 to 1998, Birkhäuser, Boston.

5. Publications

○ Listed below:

9 single-authored books published by Birkhäuser, Springer, and Academic Press;

141 papers in international journals and proceedings of international conferences;

127 papers in international journals;

14 papers in proceedings of international conferences;

45 single-authored papers.

- Not listed:

5 edited books, proceedings, and journals;

8 expository papers and book reviews;

19 papers in proceedings of Brazilian and/or Latin American conferences;

51 internal reports: University of California Los Angeles – University of Warwick – National Laboratory for Scientific Computation — Catholic University of Rio de Janeiro;

18 extended abstracts.

6. Selected Publication List

- Books:

9. C.S. Kubrusly, ***Bilinear Maps and Tensor Products in Operator Theory***, Springer-Switzerland, Cham, 2023 (268 pp).
8. C.S. Kubrusly, ***Spectral Theory of Bounded Linear Operators***, Birkhauser-Springer-Switzerland, Cham, 2020 (261 pp).
7. C.S. Kubrusly, ***Essentials of Measure Theory***, Springer-Switzerland, Cham, 2015 (293 pp).
6. C.S. Kubrusly, ***Spectral Theory of Operators on Hilbert Spaces***, Birkhäuser-Springer, New York, 2012 (207 pp).
5. C.S. Kubrusly, ***The Elements of Operator Theory***, 2nd edn, Birkhäuser-Springer, New York, 2011 (555 pp).
4. C.S. Kubrusly, ***Measure Theory: A First Course***, Academic Press-Elsevier, San Diego, 2007 (176 pp).
3. C.S. Kubrusly, ***Hilbert Space Operators: A Problem Solving Approach***, Birkhäuser, Boston, 2003 (168 pp).
2. C.S. Kubrusly, ***Elements of Operator Theory***, Birkäuser, Boston, 2001 (544 pp).
1. C.S. Kubrusly, ***An Introduction to Models and Decompositions in Operator Theory***, Birkäuser, Boston, 1997 (144 pp).

- Articles in Journals:

127. C.S. Kubrusly, An Exposition on Weak Stability of Operators, **Concrete Operators**, to appear, 2025 (De Gruyter, Berlin).
126. H. Stankovic and C.S. Kubrusly, On roots of normal operators and extensions of Ando's Theorem, **Annals of Functional Analysis**, Vol. 16, nº 4, a.60, pp. 1-15, Jul. 2025 (Birkhauser-Springer, Basel).
125. C.S. Kubrusly and P.C.M. Vieira, *Weak Stability and Quasistability*, **Rendiconti del Circolo Matematico di Palermo**, vol. 73, nº 8, pp. 3217–3228, Dec. 2024 (Springer, New York).
124. B.P. Duggal and C.S. Kubrusly, *Forms of Biisometric Operators and Biorthogonality*, **Linear and Multilinear Algebra**, vol. 72, nº 18, pp. 3217–3230, Nov. 2024 (Taylor & Francis, London).
123. Z.J. Jablonski, I.B. Jung, C.S. Kubrusly, and J. Stochel, *Convergence of power sequences of operators via their stability*, **Banach Journal of Mathematical Analysis**. vol. 18, nº 4, pp. 1–27, Oct. 2024 (Birkhauser-Springer, Basel).
122. C.S. Kubrusly, *Weak Supercyclicity — An Expository Survey*, **Results in Mathematics**, vol. 79, nº 5, pp. 1–30, Aug. 2024 (Birkhäuser-Springer, Basel).
121. C.S. Kubrusly and B.P. Duggal, *Weak l-Sequential Supercyclicity and Weak Quasistability*, **Rendiconti del Circolo Matematico di Palermo**, vol. 73, nº 2, pp. 663–673, Mar. 2024 (Springer, New York).
120. P.S. Bourdon, C.S. Kubrusly, T. Le, and D. Thompson, *Closed Range Posinormal Operators and their Products*, **Linear Algebra and its Application**, Vol. 671, pp. 38–58, Aug. 2023 (Elsevier, New York).
119. C.S. Kubrusly and N. Levan, *Erratum/Addendum to "Biisometric Operators and Biorthogonal Sequences"*, **Bulletin of the Korean Mathematical Society**, Vol. 60, nº 3, pp. 845–848, May 2023 (Korean Mathematical Society, Seoul).
118. C.S. Kubrusly, P.C.M Vieira and J. Zani, *Erratum/Addendum to "Powers of Posinormal Operators"*, **Operators and Matrices**, Vol. 16, nº 4, pp. 1239–1242, Dec. 2022 (Publishing House ELEMENT, Zagreb).
117. C.S. Kubrusly, *Restriction of Uniform Crossnorms*, **New York Journal of Mathematics**, Vol. 28, pp. 1656–1666, Dec. 2022 (SUNY, Univ. at Albany).

116. C.S. Kubrusly, *On Extensions of Bilinear Maps*, **Mathematica Slovaca**, Vol. 72, nº 4, pp. 959–968, Aug. 2022 (De Gruyter, Berlin).
115. C.S. Kubrusly, *Trace-Class and Nuclear Operators*, **Concrete Operators**, Vol. 9, nº 1, pp. 53–69, May 2022 (De Gruyter, Berlin).
114. C.S. Kubrusly and B.P. Duggal, *Weakly Supercyclic Power Bounded Operators of Class $C_{1\cdot}$*, **Advances in Mathematical Sciences and Applications**, Vol. 30, nº 2, pp. 571–585, Nov. 2021 (Gakkotosho, Tokyo).
113. C.S. Kubrusly, *Algebraic Tensor Products Revisited: Axiomatic Approach*, **Bulletin of the Malaysian Mathematical Sciences Society**, Vol. 44, nº 4, pp. 2335–2355, Jun. 2021 (Springer, New York).
112. B.P. Duggal and C.S. Kubrusly, *Power Bounded m-Left Invertible Operators*, **Linear and Multilinear Algebra**, Vol. 69, nº 3, pp. 515–525, Mar. 2021 (Taylor & Francis, London).
111. C.S. Kubrusly and B.P. Duggal, *Asymptotic Limits, Banach Limits, and Cesàro Means*, **Advances in Mathematical Sciences and Applications**, Vol. 29, nº 1, pp. 145–170, Oct. 2020 (Gakkotosho, Tokyo).
110. C.S. Kubrusly, *Denseness of Sets of Supercyclic Vectors*, **Mathematical Proceedings of the Royal Irish Academy**, Vol. 120A, nº 1, pp. 7–18, Feb. 2020 (Royal Irish Academy, Dublin).
109. C.S. Kubrusly and N. Levan, *Biisometric Operators and Biorthogonal Sequences*, **Bulletin of the Korean Mathematical Society**, Vol. 56, nº 3, pp. 585–596, May. 2019 (Korean Mathematical Society, Seoul).
108. B.P. Duggal, I.H. Kim and C.S. Kubrusly, *Operators Satisfying a Similarity Condition*, **Linear and Multilinear Algebra**, Vol. 67, nº 5, pp. 896–910, Mar. 2019 (Taylor & Francis, London)
107. A. Mello and C.S. Kubrusly, *Residual Spectrum of Power Bounded Operators*, **Functional Analysis, Approximation and Computation**, Vol. 10, nº 3, pp. 21–26, Nov. 2018 (University of Nis-Serbia, Nis).
106. C.S. Kubrusly, *Range-Kernel Complementation*, **Studia Scientiarum Mathematicarum Hungarica**, Vol. 55, nº 3, pp. 327–344, Sep. 2018 (Akademiai Kiado, Budapest).
105. C.S. Kubrusly and P.C.M. Vieira, *Boundedly Spaced Subsequences and Weak Dynamics*, **Journal of Function Spaces**, Vol. 2018, article id 4732836, pp. 1–5, Aug. 2018 (Hindawi, London).
104. C.S. Kubrusly and B.P. Duggal, *On Weak Supercyclicity I*, **Mathematical Proceedings of the Royal Irish Academy**, Vol. 118A, nº 2, pp. 47–63, Jul. 2018 (Royal Irish Academy, Dublin).
103. C.S. Kubrusly and B.P. Duggal, *On Weak Supercyclicity II*, **Czechoslovak Mathematical Journal**, Vol. 68(143), nº 2, pp. 371–371, Jun. 2018 (Springer, New York).
102. A. Conci and C.S. Kubrusly, *Distance Between Sets – A Survey*, **Advances in Mathematical Sciences and Applications**, Vol. 26, nº 1, pp. 1–18, Nov. 2017 (Gakkotosho, Tokyo).
101. C.S. Kubrusly and B.P. Duggal, *A Note on Range-Kernel Uncomplementation*, **Demonstratio Mathematica**, Vol. 50, nº 1, pp. 252–260, Oct. 2017 (De Gruyter, Berlin).
100. B.P. Duggal and C.S. Kubrusly, *Perturbation of Banach Space Operators with a Complemented Range*, **Glasgow Mathematical Journal**, Vol. 59, nº 3, pp. 659–671, Sep. 2017 (Cambridge University Press, Cambridge).
99. C.S. Kubrusly, *On Similarity to Normal Operators*, **Mediterranean Journal of Mathematics**, Vol. 13, nº 4, pp. 2073–2085, Aug. 2016 (Birkhäuser-Springer, Basel).
98. A. Mello and C.S. Kubrusly, *Quasiaffinity and Invariant Subspaces*, **Archiv der Mathematik**, Vol. 107, nº 2, pp. 173–184, Aug. 2016 (Birkhäuser-Springer, Basel).
97. C.S. Kubrusly and B.P. Duggal, *Upper-Lower and Left-Right Semi-Fredholmness*, **Bulletin of the Belgian Mathematical Society – Simon Stevin**, Vol. 23, nº 2, pp. 217–233, May. 2016 (Belgian Mathematical Society, Brussels).
96. C.S. Kubrusly and B.P. Duggal, *Weyl Spectral Identity and Biquasitriangularity*, **Proceedings of the Edinburgh Mathematical Society**, Vol. 59, nº 2, pp. 363–375, May 2016 (Cambridge University Press, Cambridge).
95. C.S. Kubrusly, *Singular-Continuous Unitaries and Weak Dynamics*, **Mathematical Proceedings of the Royal Irish Academy**, Vol. 116A, nº 1, pp. 45–56, Apr. 2016 (Royal Irish Academy, Dublin).
94. C.S. Kubrusly, P.C.M. Vieira and J. Zanni, *Powers of Posinormal Operators*, **Operators and Matrices**, Vol. 10, nº 1, pp. 15-27, Mar. 2016 (Publishing House ELEMENT, Zagreb).
93. B.P. Duggal, C.S. Kubrusly and I.H. Kim, *Bishop's Property (β), a Commutativity Theorem and the Dynamics of Class $\mathcal{A}(s,t)$ Operators*, **Journal of Mathematical Analysis and Applications**, vol. 427, nº 1, pp. 107–113, Jul. 2015 (Academic Press/Elsevier, New York).

92. B.P. Duggal and C.S. Kubrusly, *Erratum/Addendum to "PF property and property* (β) *for paranormal operators"*, **Rendiconti del Circolo Matematico di Palermo**, vol. 64 nº 1, pp. 167–170, Apr. 2015 (Springer, New York).
91. J. Zanni and C.S. Kubrusly, *A Note on Compactness of Tensor Products*, **Acta Mathematica Universitatis Comenianae**, vol. 84, nº 1, pp. 59–62, Feb. 2015 (Comenius University, Bratislava).
90. C.S. Kubrusly, *Contractions T for which A is a Projection*, **Acta Scientiarum Mathematicarum (Szeged)**, vol. 80, nº 3-4, pp. 603–624, Dec. 2014 (Bolyai Institute, Szeged).
89. B.P. Duggal, S. Djordjević and C.S. Kubrusly, *Algebraic Elementary Operators*, **Functional Analysis, Approximation and Computation**, vol. 6, nº 2, pp. 43–50, Oct. 2014 (University of Nis-Serbia, Nis).
88. B.P. Duggal and C.S. Kubrusly, *A Putnam–Fuglede Commutativity Property for Hilbert Space Operators*, **Linear Algebra and its Application**, vol. 458, pp. 108–115, Oct. 2014 (Elsevier, New York).
87. B.P. Duggal, S.V. Djordjević and C.S. Kubrusly, *Elementary Operators, Finite Ascent, Range Closure and Compactness*, **Linear Algebra and its Applications**, vol. 449, pp. 334–349, May 2014 (Elsevier, New York).
86. B.P. Duggal and C.S. Kubrusly, *Biquasitriangularity and Derivations*, **Functional Analysis, Approximation and Computation**, vol. 6, nº 1, pp. 41–48, Apr. 2014 (University of Nis-Serbia, Nis).
85. B.P. Duggal and C.S. Kubrusly, *PF Property and Property* (β) *for Paranormal Operators*, **Rendiconti del Circolo Matematico di Palermo**, vol. 63, nº 1, pp. 129–140, Apr. 2014; Erratum, vol. 64, nº 1, pp. 167–170, Apr. 2015 (Springer, New York).
84. N. Levan and C.S. Kubrusly, *Dual-Shift Decomposition and Wavelets*, **International Journal of Wavelets, Multiresolution and Information Processing**, vol. 12, nº 2, pp. 14500143.1–14500143.15, Mar. 2014 (World Scientific, New Jersey).
83. N. Levan and C.S. Kubrusly, *s-Matrix Inversion Lemma*, **Advances in Differential Equations and Control Processes**, vol. 11, nº 2, pp. 135–144, Sep. 2013 (Pushpa Publishing House, Allahabad).
82. N. Levan and C.S. Kubrusly, *Exponential Dichotomy and Strongly Stable Vectors of Hilbert Space Contraction Semigroups*, **Matematicki Vesnik**, vol. 65, nº 2, pp. 166–177, Jun. 2013 (Mathematical Society of Serbia, Beograd).
81. C.S. Kubrusly, *Regular Lattices of Tensor Products*, **Linear Algebra and its Applications**, vol. 438, nº 1, pp. 428–435, Jan. 2013 (Elsevier, New York).
80. C.S. Kubrusly and B.P. Duggal, *On Weyl's Theorem for Tensor Products*, **Glasgow Mathematical Journal**, vol. 55, nº 1, pp. 139–144, Jan. 2013 (Cambridge University Press, Cambridge).
79. N. Levan and C.S. Kubrusly, *Exponential Stability and Dissipativity*, **Functional Analysis, Approximation and Computation**, vol. 4, nº 2, pp. 9–14, Sep. 2012 (University of Nis-Serbia, Nis).
78. N. Levan and C.S. Kubrusly, *Unitary Equivalence and Translation Representation in Wavelet Theory*, **International Journal of Wavelets, Multiresolution and Information Processing**, vol. 10, nº 2, pp. 1250019.1–1250019.13, Apr. 2012 (World Scientific, New Jersey).
77. C.S. Kubrusly, *A Note on Browder Spectrum*, **Bulletin of the Belgian Mathematical Society – Simon Stevin**, vol. 19, nº 1, pp. 185-191, Feb. 2012 (Belgian Mathematical Society, Brussels).
76. C.S. Kubrusly and N. Levan, *Applications of Hilbert Space Dissipative Norm*, **Bulletin of the Korean Mathematical Society**, vol. 49, nº 1, pp. 99–107, Jan. 2012 (Korean Mathematical Society, Seoul).
75. C.S. Kubrusly and N. Levan, *On Exponential Stability of Contraction Semigroups*, **Semigroup Forum**, vol. 83, nº 3, pp. 513–521, Dec. 2011 (Springer, New York).
74. B.P. Duggal and C.S. Kubrusly, *Quasi-Similar k-Paranormal Operators*, **Operators and Matrices**, vol. 5, nº 3, pp. 417-423, Sep. 2011 (Publishing House ELEMENT, Zagreb).
73. C.S. Kubrusly and N. Levan, *Preservation of Tensor Sum and Tensor Product*. **Acta Mathematica Universitatis Comenianae**, vol. 80, nº 1, pp. 133–142, Jan. 2011 (Comenius University, Bratislava).
72. B.P. Duggal, S.V. Djordjević and C.S. Kubrusly, *On the a-Browder and a-Weyl Spectra of Tensor Products*, **Rendiconti del Circolo Matematico di Palermo**, vol. 59, nº 3, pp. 473–481, Dez. 2010 (Springer, New York).
71. C.S. Kubrusly, *Regular Subspaces of Tensor Products*, **Advances in Mathematical Sciences and Applications**, vol. 20, nº 1, pp. 235–247, Jul. 2010 (Gakkotosho, Tokyo).
70. C.S. Kubrusly and B.P. Duggal, *A Note on k-Paranormal Operators*, **Operators and Matrices**, vol. 4, nº 2, pp. 213–223, Jun. 2010 (Publishing House ELEMENT, Zagreb).

69. C.S. Kubrusly, *Invariant Subspaces of Multiple Tensor Products*, **Acta Scientiarum Mathematicarum (Szeged)**, vol. 75, nº 4, pp. 679–692, Nov. 2009 (Bolyai Institute, Szeged).
68. C.S. Kubrusly and N. Levan, *Stabilities of Hilbert Space Contraction Semigroups Revisited*, **Semigroup Forum**, vol. 79, nº 2, pp. 341–348, Sep. 2009 (Springer, New York).
67. C.S. Kubrusly and N. Levan, *Orthogonal Decompositions for Wavelets*, **Applied Mathematics Letters**, vol. 22, nº 8, pp. 1286–1291, Aug. 2009 (Pergamon/Elsevier, New York).
66. C.S. Kubrusly and P.C.M. Vieira, *Convergence and Decomposition for Tensor Products of Hilbert Space Operators*, **Operators and Matrices**, vol. 2, nº 3 pp. 407–416, Sep. 2008 (Publishing House ELEMENT, Zagreb).
65. C.S. Kubrusly and B.P. Duggal, *On Weyl and Browder Spectra of Tensor Products*, **Glasgow Mathematical Journal**, vol. 50, nº 2, pp. 289–302, May 2008 (Cambridge University Press, Cambridge).
64. C.S. Kubrusly, *Fredholm Theory in Hilbert Space – A Concise Introductory Exposition*, **Bulletin of the Belgian Mathematical Society – Simon Stevin**, vol. 15, nº 1, pp. 153–177, Jan. 2008 (Belgian Mathematical Society, Brussels).
63. S. Majumdar, N. Levan and C.S. Kubrusly, *Multilevel Decomposition in Hilbert Space*, **Current Development in Theory and Applications of Wavelet**, vol. 1, nº 3, pp. 273–292, Dec. 2007 (Pushpa Publishing House, Allahabad).
62. C.S. Kubrusly, *Tensor Product of Proper Contractions, Stable and Posinormal Operators*, **Publicationes Mathematicae Debrecen**, vol. 71, nº 3-4, pp. 425–437, Oct. 2007; Erratum, vol. 78, nº 1, p. 251, Jan. 2011 (Institutum Mathematicum Universitatis Debreceniensis, Debrecen).
61. P.C.M. Vieira and C.S. Kubrusly, *Multiplicative Perturbation by Contractions and Uniform Stability*, **Zeitschrift für Analysis und ihre Anwendungen**, vol. 26, nº 4, pp. 391–406 Sep. 2007 (European Mathematical Society, Leipzig).
60. N. Levan and C.S. Kubrusly, *Reversed Wavelet Functions and Subspaces*, **International Journal of Wavelets, Multiresolution and Information Processing**, vol. 5, nº 5, pp. 699–707, Sep. 2007 (World Scientific, New Jersey).
59. C.S. Kubrusly and B.P. Duggal, *On Posinormal Operators*, **Advances in Mathematical Sciences and Applications**, vol. 17, nº 1, pp. 131-148, Jul. 2007 (Gakkotosho, Tokyo).
58. B.P. Duggal and C.S. Kubrusly, *Weyl's Theorem for Direct Sums*, **Studia Scientiarum Mathematicarum Hungarica**, vol. 44, nº 2, pp. 275–290, Apr. 2007 Akadémiai Kiadó, Budapest).
57. N. Levan and C.S. Kubrusly, *An Introduction to Time-Shift Equations*, **Current Development in Theory and Applications of Wavelets**, vol. 1, nº 1, pp. 97–106, Apr. 2007 (Pushpa Publishing House, Allahabad).
56. C.S. Kubrusly and N. Levan, *Abstract Wavelets Generated by Hilbert Space Shift Operators*, **Advances in Mathematical Sciences and Applications**, vol. 16, nº 2, pp. 643–660, Dec. 2006 (Gakkotosho, Tokyo).
55. N. Levan and C.S. Kubrusly, *Multiresolution Approximation Scale and Time-Shift Subspaces*, **Multidimensional Systems and Signal Processing**, vol. 17, nº 4, pp. 343–354, Dec. 2006 (Springer, New York).
54. C.S. Kubrusly, *A Concise Introduction to Tensor Product*, **Far East Journal of Mathematical Sciences**, vol. 22, nº 2, pp. 137–174, Aug. 2006 (Pushpa Publishing House, Allahabad).
53. B.P. Duggal and C.S. Kubrusly, *Totally Hereditarily Normaloid Operators and Weyl's Theorem for an Elementary Operator*, **Journal of Mathematical Analysis and Applications**, vol. 312, nº 2, pp. 502–513, Dec. 2005 (Academic Press/Elsevier, New York).
52. B.P. Duggal, S.V. Djordjević and C.S. Kubrusly, *Hereditarily Normaloid Contractions*, **Acta Scientiarum Mathematicarum (Szeged)**, vol. 71, nº 1-2, pp. 337–352, Sep. 2005 (Bolyai Institute, Szeged).
51. B.P. Duggal, S.V. Djordjević and C.S. Kubrusly, *Kato Type Operators and Weyl's Theorem*, **Journal of Mathematical Analysis and Applications**, vol. 309, nº 2, pp. 433–441, Sep. 2005 (Academic Press/Elsevier, New York).
50. B.P. Duggal and C.S. Kubrusly, *Weyl's Theorems for Posinormal Operators*, **Journal of the Korean Mathematical Society**, vol. 42, nº 3, pp. 529–541, Jun. 2005 (Korean Mathematical Society, Seoul).
49. B.P. Duggal, C.S. Kubrusly and N. Levan, *Contractions of Class Q and Invariant Subspaces*, **Bulletin of the Korean Mathematical Society**, vol. 42, nº 1, pp. 169–177, Feb. 2005 (Korean Mathematical Society, Seoul).
48. N. Levan and C.S. Kubrusly, *Time-Shifts Generalized Multiresolution Analysis over Dyadic-Scaling Reducing Subspaces*, **International Journal of Wavelets, Multiresolution and Information Processing**, vol. 2, nº 3, pp. 237–248, Sep. 2004 (World Scientific, New Jersey).

47. B.P. Duggal and C.S. Kubrusly, *Paranormal Contractions have Property PF*, **Far East Journal of Mathematical Sciences** vol. 14, nº 2, pp. 237–249, Aug. 2004 (Pushpa Publishing House, Allahabad).
46. C.S. Kubrusly, *Three Decades of the Lomonosov Invariant Subspace Theorem*, **Advances in Mathematical Sciences and Applications**, vol. 14, nº 1, pp. 267–277, Jul. 2004 (Gakkotosho, Tokyo).
45. C.S. Kubrusly and N. Levan, *On Generating Wandering Subspaces for Unitary Operators*, **Advances in Mathematical Sciences and Applications**, vol. 14, nº 1, pp. 41–48, Jul. 2004 (Gakkotosho, Tokyo).
44. B.P. Duggal, I.H. Jeon and C.S. Kubrusly, *Contractions Satisfying the Absolute Value Property* $|A|^2 \leq |A^2|$, **Integral Equations and Operator Theory**, vol. 49, nº 2, pp. 141–148, Jun. 2004 (Birkhäuser, Basel).
43. C.S. Kubrusly and N. Levan, *Shift Reducing Subspaces and Irreducible-Invariant Subspaces Generated by Wandering Vectors and Applications*, **Mathematics and Computers in Simulation**, vol. 65, nº 6, pp. 607–627, May. 2004 (North–Holland/Elsevier, Amsterdam).
42. B.P. Duggal, C.S. Kubrusly and N. Levan, *Paranormal Contractions and Invariant Subspaces*, **Journal of the Korean Mathematical Society**, vol. 40, nº 6, pp. 933–942, Nov. 2003; Erratum, vol. 41, nº 4, p. 773, Jul. 2004 (Korean Mathematical Society, Seoul).
41. N. Levan and C.S. Kubrusly, *A Wavelet "Time-Shift-Detail" Decomposition*, **Mathematics and Computers in Simulation**, vol. 63, nº 2, pp. 73–78, Jun. 2003 (North–Holland/Elsevier, Amsterdam).
40. C.S. Kubrusly, *Quasireducible Operators*, **International Journal of Mathematics and Mathematical Sciences**, vol. 2003, nº 31, pp. 1993–2002, Jun. 2003 (Hindawi, New York).
39. C.S. Kubrusly and B.P. Duggal, *Contractions with* $C_{\cdot 0}$ *Direct Summands*, **Advances in Mathematical Sciences and Applications**, vol. 11, nº 2, pp. 593–601, Dec. 2001 (Gakkotosho, Tokyo).
38. C.S. Kubrusly and N. Levan, *Proper Contractions and Invariant Subspaces*, **International Journal of Mathematics and Mathematical Sciences**, vol. 28, nº 4, pp. 223–230, Oct. 2001 (Hindawi, New York).
37. C.S. Kubrusly, *Invariant Subspaces and Quasiaffine Transforms of Unitary Operators*, **Progress in Nonlinear Differential Equations and their Applications**, vol. 42, pp. 167–173, Aug. 2000 (Birkhäuser, Basel).
36. C.S. Kubrusly, *Invariant Subspaces for a Class of* C_1*.-Contractions*, **Advances in Mathematical Sciences and Applications**, vol. 9, nº 1, pp. 129–135, Mar. 1999 (Gakkotosho, Tokyo).
35. P.C.M. Vieira, H. Malebranche and C.S. Kubrusly, *On Uniform Stability*, **Advances in Mathematical Sciences and Applications**, vol. 8, nº 1, pp. 95–100, Mar. 1998 (Gakkotosho, Tokyo).
34. C.S. Kubrusly, *Equivalent Invariant Subspace Problems*, **Journal of Operator Theory**, vol. 38, nº 2, pp. 323–328, Dec. 1997 (Theta, Bucharest).
33. O.L.V. Costa and C.S. Kubrusly, *Quadratic Optimal Control for Discrete-Time Infinite-Dimensional Stochastic Bilinear Systems*, **IMA Journal of Mathematical Control and Information**, vol. 14, nº 4, pp. 385–399, Dec. 1997 (Oxford University Press, Oxford).
32. C.S. Kubrusly, P.C.M. Vieira and D.O. Pinto, *A Decomposition for a Class of Contractions*, **Advances in Mathematical Sciences and Applications**, vol. 6, nº 2, pp. 523–530, Sep. 1996 (Gakkotosho, Tokyo).
31. O.L.V. Costa and C.S. Kubrusly, *State Feedback* H_∞*-Optimal Control for Discrete-Time Infinite-Dimensional Stochastic Bilinear Systems*, **Journal of Mathematical Systems, Estimation, and Control**, vol. 6, nº 2, pp. 223–226, Mar. 1996 (Birkhäuser, Boston). Full electronic version – 32 pages – available at http://scholar.lib.vt.edu/ejournals/JMSEC/v6n2/46225.ps
30. O.L.V. Costa, G.M.S. Ferreira and C.S. Kubrusly, *On Mean-Square Stable Bilinear Systems*, **IMA Journal of Mathematical Control and Information**, vol. 12, nº 4, pp. 325–329, Dec. 1995 (Oxford University Press, Oxford).
29. C.S. Kubrusly and P.C.M. Vieira, *Strong Stability for Cohyponormal Operators*, **Journal of Operator Theory**, vol. 31, nº 1, pp. 123–127, Feb. 1994 (IMAR, Bucharest).
28. O.L.V. Costa and C.S. Kubrusly, *Riccati Equation for Infinite-Dimensional Discrete Bilinear Systems*, **IMA Journal of Mathematical Control and Information**, vol. 10, nº 4, pp. 273–291, Dez. 1993 (Oxford University Press, Oxford).
27. C.S. Kubrusly, *Similarity to Contractions and Weak Stability*, **Advances in Mathematical Sciences and Applications**, vol. 2, nº 2, pp. 335–343, Sep. 1993 (Gakkotosho, Tokyo).
26. C.S. Kubrusly and O.L.V. Costa, *Mean-Square Stability for Discrete Bilinear Systems in Hilbert Space*, **Systems and Control Letters**, vol. 19, nº 3, pp. 205–211, Sep. 1992 (North–Holland, Amsterdam).

25. O.L.V. Costa and C.S. Kubrusly, *Lyapunov Equation for Infinite-Dimensional Discrete Bilinear Systems*, **Systems and Control Letters**, vol. 17, nº 1, pp. 71–77, Jul. 1991 (North–Holland, Amsterdam).
24. C.S. Kubrusly and P.C.M. Vieira, *Constrained-Input Constrained-State Stability in a Banach Space*, **IMA Journal of Mathematical Control and Information**, vol. 7, nº 2, pp. 113–124, Sep. 1990 (Oxford University Press, Oxford).
23. C.S. Kubrusly, *Strong Stability does not Imply Similarity to a Contraction*, **Systems and Control Letters**, vol. 14, nº 5, pp. 397–400, Jun. 1990 (North–Holland, Amsterdam).
22. C.S. Kubrusly, *A Note on the Lyapunov Equation for Discrete Linear Systems in Hilbert Space*, **Applied Mathematics Letters**, vol. 2, nº 4, pp. 349–352, Nov. 1989 (Pergamon Press, Oxford).
21. C.S. Kubrusly, *On Stochastic Modelling for Discrete Bilinear Systems in Hilbert Space*, **Mathematics and Computers in Simulation**, vol. 31, nº 1–2, pp. 19–30, Feb. 1989 (North–Holland, Amsterdam).
20. C.S. Kubrusly, *Uniform Stability for Time-Varying Infinite-Dimensional Discrete Linear Systems*, **IMA Journal of Mathematical Control and Information**, vol. 5, nº 4, pp. 269–283, Dec. 1988; Erratum, vol. 7, nº 4, pp. 291–292, May 1990 (Oxford University Press, Oxford).
19. C.S. Kubrusly, *On the Existence, Evolution, and Stability of Infinite-Dimensional Stochastic Discrete Bilinear Models*, **Control – Theory and Advanced Technology**, vol. 5, nº 3, pp. 271–287, Sep. 1987 (Mita Press, Tokyo).
18. C.S. Kubrusly, *Quadratic-Mean Convergence and Mean-Square Stability for Discrete Linear Systems: A Hilbert-Space Approach*, **IMA Journal of Mathematical Control and Information**, vol. 4, nº 1, pp. 93–107, Apr. 1987 (Oxford University Press, Oxford).
17. C.S. Kubrusly, *On Convergence of Nuclear and Correlation Operators in Hilbert Space*, **Matemática Aplicada e Computacional**, vol. 5, nº 3, pp. 265–282, Dec. 1986 (Campus/Elsevier, Rio de Janeiro); lately: **Computational and Applied Mathematics** (Birkhäuser, Boston).
16. C.S. Kubrusly, *On Discrete Stochastic Bilinear Systems Stability*, **Journal of Mathematical Analysis and Applications**, vol. 113, nº 1, pp. 36–58, Jan. 1986 (Academic Press, New York).
15. C.S. Kubrusly and O.L.V. Costa, *Mean Square Stability Conditions for Discrete Stochastic Bilinear Systems*, **IEEE Transactions on Automatic Control** (regular paper), vol. AC–30, nº 11, pp. 1082–1087, Nov. 1985 (IEEE Inc., New York).
14. C.S. Kubrusly and H. Malebranche, *Sensors and Controllers Location in Distributed Systems – A Survey*, **Automatica - The IFAC Journal**, vol. 21, nº 2, pp. 117–128, Mar. 1985 (Pergamon Press, Oxford).
13. C.S. Kubrusly, *Mean Square Stability for Discrete Bounded Linear Systems in Hilbert Space*, **SIAM Journal on Control and Optimization**, vol. 23, nº 1, pp. 19–29, Jan. 1985 (SIAM Publ., Philadelphia).
12. C.S. Kubrusly, *On Identifiability of Linear Dynamical Systems*, **Matemática Aplicada e Computacional**, vol. 3, nº 3, pp. 219–256, Dec. 1984 (Campus/Elsevier, Rio de Janeiro); lately: **Computational and Applied Mathematics** (Birkhäuser, Boston).
11. C.S. Kubrusly and C.E. Pedreira, *Identification of Multiplicative Parameters in Stochastic Bilinear Systems*, **IEEE Transactions on Systems, Man and Cybernetics** (short paper), vol. 14, nº 2, pp. 315–318, Mar.–Apr. 1984 (IEEE Inc., New York).
10. C.S. Kubrusly, *Distributed Parameter Systems Identification: A Survey*, Distributed Parameter Systems Theory – Part II: Estimation (ed. by P. Stavroulakis), **Benchmark Papers in Electrical Engineering and Computer Science**, vol. 27, nº 2, pp. 248–274, Jul. 1983 (Hutchinson Ross, Stroudsburg).
9. C.S. Kubrusly and A.P. Lucena, *A Comparison of Three Correlation Techniques for System Identification*, **International Journal of Systems Science**, vol. 14, nº 1, pp. 31–57, Jan. 1983 (Taylor & Francis, London).
8. M.D. Fragoso and C.S. Kubrusly, *On the Development of CA^K-Identifiable Structures*, **Matemática Aplicada e Computacional**, vol. 1, nº 1, pp. 5–38, Jul. 1982 (Campus/Elsevier, Rio de Janeiro); lately: **Computational and Applied Mathematics** (Birkhäuser, Boston).
7. C.S. Kubrusly, *Identification of Discrete-Time Stochastic Bilinear Systems*, **International Journal of Control**, vol. 33, nº 2, pp. 291–309, Feb. 1981 (Taylor & Francis, London).
6. C.S. Kubrusly, *Linear DPS Identification in a Stochastic Environment*, **RAIRO Automatique - Systems Analysis and Control**, vol. 14, nº 4, pp. 343–361, Dec. 1980 (Dunod, Paris).
5. C.S. Kubrusly, *On Identifiable Structures in a Stochastic Environment*, **RAIRO Automatique - Systems Analysis and Control**, vol. 14, nº 1, pp. 95–104, Feb. 1980; Errata, vol. 14, nº 4, p. 361, Dec. 1980 (Dunod, Paris).

4. C.S. Kubrusly, *Applied Stochastic Approximation Algorithms in Hilbert Space*, **International Journal of Control**, vol. 28, nº 1, pp. 23–31, Jul. 1978 (Taylor & Francis, London).
3. C.S. Kubrusly, *Identification of Higher Order Stochastic Distributed Parameter Systems*, **RAIRO Automatique - Systems Analysis and Control**, vol. 12, nº 2, pp. 131–153, Jun. 1978 (Dunod, Paris).
2. C.S. Kubrusly, *Distributed Parameter System Identification*: *A Survey*, **International Journal of Control**, vol. 26, nº 4, pp. 509–535, Oct. 1977 (Taylor & Francis, London).
1. C.S. Kubrusly and R.F. Curtain, *Identification of Noisy Distributed Parameter Systems Using Stochastic Approximation*, **International Journal of Control**, vol. 25, nº 3, pp. 441–455, Mar. 1977 (Taylor & Francis, London).

- Full Papers in Proceedings (International Conferences):

14. M. Sheeny, T.B. Borchartt, A. Conci, and C. Kubrusly *On efficient use of wavelet in infrared image*, **Proceedings of the 20th International Conference on Systems, Signals and Image Processing (IWSSIP)**, Bucharest, pp. 31–34, Jul. 2013 (IEEE Inc., Piscataway).
13. A. Conci, C.S. Kubrusly and T.W. Rauber, *Influence of the Wavelet Family in the Compression-Denoising Technique on Synthetic and Natural Images*, **Proceedings of the 16th International Conference on Systems, Signals and Image Processing (IWSSIP)**, Chalkida, pp. 1–14, Jun. 2009 (IEEE Inc., Piscataway).
12. A. Conci, M.S. Fonseca, C.S. Kubrusly and T.W. Raubert, *Considering the Wavelet Type and Contents on the Compression-Decompression Associated with Improvement of Burred Images*, **Proceedings of the International Joint Conference on Computer Vision, Imaging and Computer Graphics Theory and Applications**, Lisbon, pp. 79–84, Feb. 2009 (INSTICC Press, Lisbon).
11. A. Conci, A. Plastino, A.S. de Souza, C.S. Kubrusly, D.C.M. Saade and F.L. Seixas, *Automated Segmentation and Clinical Information on Dementia Diagnosis*, **Proceedings of the First International Workshop on Medical Image Analysis and Description for Diagnosis Systems, and Second International Joint Conference on Biomedical Engineering Systems and Technologies**, Oporto, pp. 33–42, Jan. 2009 (INSTICC Press, Lisbon).
10. C.S. Kubrusly and N. Levan, *Dual-Shift Decomposition of Hilbert Space*, **Proceedings of the 2nd International Conference of Semigroups of Operators: Theory and Applications**, Rio de Janeiro, pp. 145–157, Dec. 2002 (Optimization Software Publ., Los Angeles).
9. C.S. Kubrusly, *Asymptotically Partially Isometric Contractions*, **Proceedings of the 2nd International Conference of Semigroups of Operators: Theory and Applications**, Rio de Janeiro, pp. 135–144, Dec. 2002 (Optimization Software Publ., Los Angeles).
8. C.S. Kubrusly and P.C.M. Vieira, *Weak Asymptotic Stability for Discrete Linear Distributed Systems*, **Proceedings of the 5th IFAC Symposium on Control of D.P.S.**, Perpignan, pp. 69–73, Jun. 1989 (Pergamon Press, Oxford).
7. H. Malebranche and C.S. Kubrusly, *Sensitivity of an Optimal Location Strategy*, **Proceedings of the 1st IFAC Workshop on Sensors and Actuators in D.P.S.**, Perpignan, pp. 257–278, Dec. 1987 (IMP/CNRS, Perpignan).
6. C.S. Kubrusly, *Stability for Stochastic Infinite-Dimensional Bilinear Systems*, **Proceedings of the 4th IFAC Symposium on Control of D.P.S.**, Los Angeles, pp. 297–300, Jul. 1986 (Pergamon Press, Oxford).
5. C.S. Kubrusly, *Modelling of Infinite-Dimensional Discrete Bilinear Systems in a Stochastic Environment*, **Proceedings of the 1st IMACS–IFAC Symposium on Modelling & Simulation of Lumped and Distributed Parameter Systems**, Villeneuve d'Asqc, pp. 491–493, Jun. 1986 (IDN, Villeneuve d'Asqc).
4. C.S. Kubrusly and H. Malebranche, *A Survey on Optimal Sensors and Controllers Location in DPS*, **Proceedings of the 3rd IFAC Symposium on Control of D.P.S.**, Toulouse, pp. S.P.59–S.P.73, Jul. 1982 (Pergamon Press, Oxford).
3. C.S. Kubrusly, *Bilinear System Identification: Stochastic Approach*, **Seminar on Numerical Analysis and its Applications to Continuum Physics**, Rio de Janeiro, pp. 191–202, Mar. 1980 (Col. Atas vol. 12, Soc. Brasil. Mat., Rio de Janeiro).
2. C.S. Kubrusly and M.D. Fragoso, *On-Line Stochastic Approximation Algorithms for CA^K-Identifiable Structures*, **Proceedings of the 5th IFAC Symposium on Identification & System Parameter Estimation**, Darmstadt, pp. 711–718, Sep. 1979 (Pergamon Press, Oxford).
1. C.S. Kubrusly and J.-P. Gravier, *Stochastic Approximation Algorithms and Applications*, **Proceedings of the 1973 IEEE Decision & Control Conference**, San Diego, pp. 763–766, Dec. 1973 (IEEE Inc., New York).