COLLEGE OF ARTS AND SCIENCES Mathematics Department Curriculum Vitae

GENERAL DATA

NAME: Athanassios G. Kartsatos USF EMPLOYMENT: September 1971, Assistant Professor PRESENT RANK: Full Professor TENURED: September 1976

EDUCATION

Institution	Field of Study	<u>Degree, Date</u>
University of Athens, Greece	Mathematics	Diploma, 1965
University of Athens, Greece	Mathematics	Doctorate, 1970

EMPLOYMENT

University of South Florida: Professor, 1978-University of South Florida: Associate Professor, 1973-78 University of South Florida: Assistant Professor, 1971-73

AREAS OF SPECIALIZATION

Nonlinear Functional Analysis, Evolution Equations in Abstract Spaces, Nonlinear Accretive and Monotone Operator Theory, Nonlinear Control Theory With Pre-assigned Responses.

GRANTS RECEIVED

National Science Foundation (funded)/National Research Council Office for Central Europe and Eurasia (administered) COBASE Grant for Collaboration in Basic Science and Engineering (with Professor Igor V. Skrypnik, member of the Ukrainian Academy of Sciences). Title of Project: $\frac{1}{2} \left[c_{c} \frac{\partial}{\partial t} \hat{a} \hat{c} \hat{A} + \hat{C} \cdot \hat{c} + \hat{C} \hat{c} \hat{a} + \hat{A} + \hat{C} \cdot \hat{c} + \hat{C} \hat{c} \hat{c} + \hat{c} +$

AWARDS

Functional Differential Equations, Nonlinear Functional Ana

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- [11] [With Prof. N. Tserpes] A sufficient condition for the support of a measure to be a left group, *Bolletino della Unione Mathematica Italiana*, 1 (1968), 538-539.
- [12] On oscillation of solutions of even order nonlinear differential equations, Journal of Differential Equations, 6 (1969), 232-237.
- [13] Boundedness of so

- [21] On the maintenance of oscillations of *n*th order equations under the effect of a small forcing term, *Journal of Differential Equations*, **10** (1971), 355-363.
- [22] Oscillation of nonlinear systems of matrix differential equations,*Proceedings of the American Mathematical Society*, **30** (1971), 97-101.
- [23] [With Prof. A. Bacopoulos] On polynomials approximating the solutions of nonlinear ordinary differential equations, *Pacific Journal of Mathematics*, **40** (1972), 1-5.
- [24] On the relationship between a nonlinear system and its nonlinear perturbation, *Journal of Differential Equations*, **11** (1972), 582-591.
- [25] On the maintenance of oscillations under the effect of a periodic forcing term, *Proceedings of the American Mathematical Society*, **34** (1972), 377-383.
- [26] Convergence in perturbed nonlinear systems, *Tôhoku Mathematical*

- [46] [With Prof. Ward] Boundedness and existence of periodic solutions of quasi-linear systems, *Journal of the Institute of Mathematics and its Applications*, Oxford, **15**, (1975), 187-194.
- [47] [With Prof. M. N. Manougian] Further results on oscillation of functional differential equations, *Journal of Mathematical Analysis and Applications*, **53** (1976), 28-37.
- [48] Locally invertible of operators and existence problems in differential systems, *Tôhoku Mathematical Journal*, **28** (1976), 167-176.
- [49] Oscillation and existence of unique positive solutions for nonlinear *n*th order equations with forcing term, *Hiroshima Mathematical Journal*, 6 (1976), 1-6.
- [50] [With Dr. W. R. Zigler] Rothe's method and weak solutions of perturbed evolution equations in reflexive Banach spaces, *Mathematische Annalen*, **219** (1976), 159-166.
- [51] On the oscillation problem of nonlinear equations, *Hiroshima Mathematical Journal*, 6 (1976), 257-264.
- [52] Nth order oscillations with middle terms of order *n-2*, *Pacific Journal of Mathematics*, **67** (1976), 34-45.
- [53] On the stabilization of solutions of nonlinear systems, Mathematical Notes and Symposia, Vol. 2: Differential Equations (Third Mexico-US Symposium, Mexico City, 1975) (Spanish), 275-280.
- [54] Oscillation of *n*th order equations with perturbations, Journal of *Mathematical Analysis and Applications*, **57** (1977), 161-169.
- [55] Recent results on oscillation of solutions of forced and perturbed nonlinear differential equations of even order, *Stability of Dynamical Systems, Theory and Applications* (Proceedings of the Regional NSF-CBMS Conference, Mississippi State Univ., Mississippi State, Miss. 1975), 17-72. Lecture notes in Pure and Applied Mathematics, Vol. 28, Marcel Dekker, New York, 1977.

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- [58] Oscillation and nonoscillation for perturbed differential equations, *Hiroshima Mathematical Journal*, 8 (1978), 1-10.
- [59] Perturbations of *m*-accretive operators and quasi-linear evolution equations, *Journal of the Mathematical Society of Japan*, **30** (1978), 75 84.
- [60] [With Prof. J. Toro] Comparison and oscillation theorems for equations with middle terms of order *n-1*, *Journal of Mathematical Analysis and Applications*, **66** (1978), 297-312.
- [61] [With Prof. T. Walters] Origins of oscillation criteria of operator differential equations in Hilbert space, *Journal of Mathematical Analysis* and Applications, (1978).
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- [65] [With Prof. Walters] Some oscillation results for matrix and vector differential equations with forcing term, *Journal of Mathematical Analysis* and Applications, **73** (1980), 506-513.
- [66] Surjectivity results for compact perturbations of *m*-accretive operators, Journal of Mathematical Analysis and Applications, **78** (1980), 1-16.
- [67] Mapping theorems involving compact perturbations and compact resolvents of nonlinear operators in Banach spaces, *Journal of*

Mathematical Analysis and Applications, 80 (1981), 130-146.

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- [71] [With Prof. W. Kosmala] The behavior of an *n*th order equation with two middle terms, *Journal of Mathematical Analysis and Applications*, 88 (1982), 642-664.
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- [73] [With Prof. M. E. Parrott] Existence of solutions and Galerkin approximations for nonlinear functional evolution equations, *Tôhoku Mathematical Journal*, **34** (1982), 509-523.
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- [75] [With Prof. M. E. Parrott] Global solutions of functional evolution equations involving locally defined Lipschitzian perturbations, *Journal of the London Mathematical Society*, **27** (1983), 306-316.
- [76] [With Prof. M. E. Parrott] Convergence of the Kato approximants for evolution equations involving functional perturbations, *Journal of Differential Equations*, **47** (1983), 358-377.
- [77] [With Prof. M. E. Parrott] A method of lines for a nonlinear abstract functional differential equation, *Transactions of the American Mathematical Society*, **286** (1984), 73-89.
- [78] [With Prof. M. E. Parrott] Functional evolution equations involving time dependent maximal monotone operators in Banach spaces, *Nonlinear Analysis, TMA*, 8 (1984), 817-833.
- [79] [With Prof. M. E. Parrott] A simplified approach to the existence and stability problem of a functional evolution equation in a general Banach

space, Infinite Dimensional Systems (Retzhof, Austria, 1983), Lecture Notes in Mathematics, **1076**

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- [121] An invariance of domain result for maximal monotone operators whose domains do not necessarily contain any open sets, *Proceedings of the American Mathematical Society*, **125** (1997), 1469-1478.
- [122] [With Dr. Zhou, Haiyun] Eigenvalues and ranges for perturbations of nonlinear accretive and monotone operators in Banach spaces. Abstr. Appl. Anal. 2 (1997), 197--205.
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- [155] [With Dr. D. Kerr]

- [157] [With Dr. T. Asfaw] A Browder degree theory for pseudo-monotone perturbations of maximal monotone operators, Advances in Mathematical Sciences and Applications, 22 (2012), 91-148.
- [158] [With Dr. T. Asfaw] Variational inequalities for perturbations of maximal monotone operators in reflexive Banach spaces, Tohoku Mathematical Journal, 66 (2014), 171-203..
- [159] [With Dr. T. Asfaw] New results for perturbations of locally defined generalized pseudomonotone operators in Banach spaces. Advances in Mathematical Sciences and Applications, 24 (2014), 1-10.
- [160] [With Prof. D. R. Adhikari] Invariance of domain and eigenvalues for perturbations of densely defined linear maximal monotone operators, Applicable Analysis, 94 (2015), 1-19.

BOOKS REFERRING TO THE AUTHOR'S WORK

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Controllability of Dynamical Systems, Mathematics and its Applications, Kluwer, Dordrecht, 1991.

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On Oscillatory Properties of Solutions of Functional Differential

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Nonoscillation and Oscillation: Theory for Functional Differential Equations, Marcel Dekker, New York,

PRESENTATION OF PAPERS. SPEECHES

[11] **TALLAHASSEE, FLORIDA**, Florida State Univ., 1974. Invited Colloquium lecture on the

- [20] MEXICO CITY, MEXICO, Two-Month Seminar on ‰[} /ð ^æÁU•&ð at at a factor of a factor of the seminar on ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æÁU•&ð at a factor of the seminar of ‰[} /ð ^æAU•&ð at a factor of the seminar of ‰[} /ð ^æAU•&ð at a factor of the seminar of ‰[} /ð ^æAU•&ð at a factor of the seminar of ‰[} /ð ^æAU•&ð at a factor of the seminar of ‰[} /ð ^æAU•&ð at a factor of the seminar of ‰[} /ð ^æAU•&ð at a factor of the seminar of ‰[} /ð ^æAU•&d at a factor of the seminar of water of the seminar of ‰[} /ð ^æAU•&d at a factor of the seminar of ‰[} /ð ^æAU•&d at a factor of the seminar of water of the seminar of water of the seminar of ‰[} /ð ^æAU•&d at a factor of the seminar of water of the seminar of water of the seminar of the seminar of water of the seminar of
- [22] ATLANTA, GEORGIA, Annual Meeting, American Mathematical Society, 1978. Invited lecture.
- [23] BILOXI, MISSISSIPPI, Annual Meeting, American Mathematical Society, 1979. Co-Organizer, Special Session on 2008年前回日期前的目前。
 Behavior of Ordinary Differential Equac (1) · 庄
- [24] BLACKSBURG, VIRGINIA, South Eastern-Atlantic Regional Conference on Differential Equations, 1981, Invited Lecture.
- [25] CINCINNATI, OHIO, Annual Meeting, American Mathematical Society, 1982. Invited lecture.
- [26] DENVER, COLORADO, Annual Meeting, American Mathematical Society, 1983. Co-Organizer, Special Session

Invited Lecture.

- [27] WASHINGTON, D.C., Howard University, 1984, Invited Colloquium Lecture on 编[} 為 念 AÖã-^: (*) c 羅姆 Ô č 羅爾) • Á ã @ (*) - CB&: ^ c 쥷, ÁU] ^: æ [*) 告
- [28] BIRMINGHAM, ALABAMA, International Conference on Differential Equations and Mathematical Physics, March, 1986. Organized by the University of Alabama at Birmingham. Invited Lecture. % @ AÔ[} c^¢ãt Á Á the Interior of the Domain of an m-OB&!^cãt^ÁU] ^!æ[!Á§ Á#Óæ) æ@ QÛ] æ% È
- [30] MELBOURNE, FLORIDA, Florida Institute of Technology, Department of Applied Mathematics, Colloquium Lecture on %a[} |ð ^æAOç[` at } A Inclusions Involving m-OB&/^at/AU] ^/æ[/•+Ê1990.
- [31] ORLANDO, FLORIDA, University of Central Florida, Department of Mathematics, Invited Colloquium Lecture on %问^*;^^Á/@[;^Á;) åÁp[} 資 ^æÁ Ò)(引 @AÚ;[à]^{ • 庄
- [32] TAMPA, FLORIDA, First World Congress of Nonlinear Analysts, August 19-26, 1992. Member of the Global Organizing Committee. Organizer, Special Session %J^&^} oAU^* [oAQ; [|çð * AO[{] & oAU^/c ¦à æð åAO[{] & oAU^* [|ç^} oA [AOB&' @ AU^* ['• A AO] & oAU^* [] & oAU^*]
- [33] ATHENS, OHIO, International Conference on Optimal Control of Differential Equations and Variational Inequalities, March, 1993. Organized by Ohio University. Invited lecture. Title: ²⁰/₂ /c@/ÂÜ^• č /cAÍ / Á@Á Controllability of Evolutions with Pre-Υã } ^åÂÜ^•] [} •^•È

- [48] ORLANDO, FLORIDA, "Mathematics Today and Tomorrow", International Conference to Celebrate the 20th Anniversary of the Founding of the International Journal of Mathematics and Mathematical Science Information, sponsored by the University of Central Florida and the Calcutta Mathematical Society, University of Central Florida, March 13-15, 1997. One of the eight invited speakers for the Special Session on Analysis. Title of lecture k@u/\/c /àaæa \ A/@[/^A[/AT æd a @AT [} [d }^A@ a/ -Accretive U] ^/æ[/•+
- [49] TBILISI, REPUBLIC OF GEORGIA, International Symposium on Differential Equations and Mathematical Physics, June 21-25, 1997. The symposium was organized by the A. Razmadze Institute of the Georgian Academy of Sciences. Invited lecture. There were 4 invited lectures from the US. Title of lecture:

- [53] YOKOHAMA, JAPAN, Yokohama University, Department of Mathematics. Mathematics Seminar of Professor Norimichi Hirano, May 26, 1999. Invited lecture. Title of lecture: ŵa? > çæ? ^ ÁÚ![à|^{ • ÁQ; c[|çã] * ÁT æéã[æ¦ÁT [] [d] } ^ Á and m-OB&!^a@;^ÁU] ^!æ[!• Á§ ÁÓæ) æ&@Û] æ? • È
- [54] FUKUOKA, JAPAN, Fukuoka University, Department of Mathematics, Mathematics Seminar of Professor Takasi Kusano, May 28, 1999. Invited lecture. Title of lecture: %/[][/[* 28æ4Ö^* /^^ Á/@[/ 20^ + 4]^ AÖ^ - 3 ^ å Á Tæ]] 3 * • Á9ç[/ç3 * ÁU] ^ /æ[/• Á Á/^] ^ ÁQÉDE
- [55] PUSAN, REPUBLIC OF KOREA, International Conference of Functional Differential Equations and Related Topics, June 1, 1999. Invited plenary lecture. Title of lecture: %/[][/[* & ###Ö^*;^^Á/@[/ & •Á[/ ÄÖ^} •^]^ÁÖ^-] ^ A T a]]] * •ÁQç[/ç] *ÁJ] ^/a [/•Á[Á/^] ^ ÁQÉDE
- [56] BEIJING, CHINA, Institute of Mathematics of the Chinese Academy of Sciences, Professors Shujie Li and Bingren Li, June 7, 1999. Invited lecture. Title of lecture: %/[][/[* & ##Ö^* : ^^Á/@[: * + A[: AÖ^} • ^] ^ AÖ^ - A ^ A ^ A T a]] ã * • ÁQç[/çã * ÁU] ^ : a [: • Á · Á/] ^ ÁQ ÉDE
- [57] SHANGHAI, CHINA, Jiao Tong University, Department of Mathematics, Seminar of Professor Shunian Zhang. June 17, 1999. Invited lecture. Title of lecture: ‰[][[[*&æ¢/Ö^*;^^Á/@[['æ •Á['AÖ^} •^|^AÖ^-ð]^åAT æ]]ð] *•Á Qç[[çð] *ÁU]^;æ[['•Á[Á/^]^ÁQÙÉDÈ-
- [58] LVIV, UKRAINE, International Conference on Partial Differential Equations in Honor of Juliusz P. Schauder, August 26, 1999. Invited lecture. Title of lecture: % Jæ) *^• Á AÛ { • ÁU { AÛ } • ^/ AÔ^ 3 • ^/ AÔ Ú•^ * å[{ [} [d } ^ ÁÚ^ ; c ; à æð } • Á AT æð a æð [] [d } ^ ÁU] ^ ; æ [;• +È

- [60] TAIYUAN, CHINA, ICM Satellite Conference on Nonlinear Functional Analysis, August 14-18, 2002. Invited lecture. Title of lecture: %/[] [[[* 28:24Å Degree Theory and Applications to Various ProbP

3. Terry J. Walters, 1978, *ŵ*

- Lubomir Markov, 1998. ⁽^A) → ⁽C) A⁽G-approach to second order functional evolutions in Banach s] æ⁽A⁽) → ⁽L)
- Joseph Quarcoo, 2006, Contributions to the degree theory for perturbations of maximal monotone operators+È
- 20. **Dhruba R. Adhikari,** "Applications of degree theories to nonlinear operator equations in Banach spaces+È
- 21. **Ibrahimou Boubakari,** The Leray-Schauder approach for the topological degree of perturbed maximal monotone operators
- 22. **Teffera M. Asfaw,** \mathcal{Z} opological Degree and Variational Inequality Theories for Pseudomonotone Perturbations of Maximal Monot[} \hat{AU}] \hat{z}

I have been the major professor of 22 Ph.D. students. I was the major professor of the first Ph.D. student of the department of mathematics at USF in 1975.

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