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

<table>
<thead>
<tr>
<th>Institution</th>
<th>Field of Study</th>
<th>Degree, Date</th>
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<tbody>
<tr>
<td>University of Athens, Greece</td>
<td>Mathematics</td>
<td>Diploma, 1965</td>
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<tr>
<td>University of Athens, Greece</td>
<td>Mathematics</td>
<td>Doctorate, 1970</td>
</tr>
</tbody>
</table>

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: “Solvability of Essentially Nonlinear Parabolic Initial-Boundary Value Problems and Problems Involving Nonlinear Maximal Monotone and M-Accretive Operators”. Year 1996.

AWARDS

USF Provost’s Pool Outstanding Professor award, 1996.
Distinguished Teacher Award of the Florida Section of the Mathematical Association of America, 2003.

CREATIVE ACTIVITIES


ASSOCIATE EDITOR: Advances in Mathematical Sciences and Applications,
Functional Differential Equations,
Panamerican Mathematical Journal.

REFEREE: Numerous Mathematical Journals.
REVIEWER: Mathematical Reviews.

ARTICLES IN REFEREED PUBLICATIONS


[67] Mapping theorems involving compact perturbations and compact resolvents of nonlinear operators in Banach spaces, *Journal of
Some mapping theorems for accretive operators in Banach spaces, 


[70] On the nonoscillation of a nonlinear equation with certain discontinuities, 


[72] Mapping theorems involving ranges of sums of nonlinear operators, 
*Nonlinear Analysis, TMA*, **6** (1982), 271-278.


[79] [With Prof. M. E. Parrott] A simplified approach to the existence and stability problem of a functional evolution equation in a general Banach


[With Prof. D. R. Kaplan] Ranges of sums and the control of nonlinear


[109] [With Prof. Z. Guan] Ranges of perturbed maximal monotone and $m$-accretive operators in Banach spaces, *Transactions of the American


[126] [With Prof. J. Lin] Homotopy invariance of parameter-dependent domains and perturbation theory for maximal monotone and m-accretive operators, Advances in Differential Equations, 8 (2003), 129-160.


[129] [With Prof. I. V. Skrypnik] Topological degree theories for densely defined mappings of type (S+), *Advances in Differential Equations*, **4** (1999), 413-456.


[140] [With Dr. Z. Guan and Prof. I. V. Skrypnik] Ranges of densely defined generalized pseudomonotone perturbations of maximal monotone operators. *Journal of Differential Equations*, 188 (2003), 332-351.


[144] [With Prof. V. Kurta] On blow-up results for solutions of inhomogeneous evolution equations and inequalities. II. *Differential Integral Equations*, 18 (2005), 1427-1435.


[152] [With Dr. Ibrahimou] The Leray-Schauder approach to the degree theory for (S+)-perturbations of maximal monotone operators in separable reflexive Banach spaces, *Nonlinear Analysis*, 70 (2009), 4350--4368.


[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

[1] G. E. O. Giacaglia,


[2] S. R. Bernfeld and V. Lakshmikantham,


[4] V. Lakshmikantham and S. Leela,

[5] H. O. Fattorini,

[6] N. H. Pavel,

[7] G. F. Webb,

[8] N. H. Pavel,

[9] G. S. Ladde, V. Lakshmikantham and B. G. Zhang,


[14] **J. Klamka**,  


[16] **R. Koplatadze**,  
*On Oscillatory Properties of Solutions of Functional Differential Equations*, Memoirs on Differential Equations and Mathematical

[17] **J. Wu,**


[18] **U. Elias,**


[19] **S. Hu and N. S. Papageorgiou,**


[21] **C. Avramescu,**


[22] **V. Lakshmikantham and S. G. Deo**


[23] **M. Schechter,**

[24] D. Pascali,


[26] R. P. Agarwal, S. R. Grace and D. O'Regan,


[27] M. Kamenskii, V. Obukhovskii, P. Zecca,


[28] R. P. Agarwal, S. R. Grace and D. O'Regan,


[29] Y. Hino, T. Naito, N. V. Minh, J. S. Shin,


[31] **K. S. Ha,**

*Nonlinear Functional Evolutions in Banach spaces,*

[32] **A. Granas and J. Dugundji,**

Fixed Point Theory, Springer Monographs in Mathematics,

[33] **R. P. Agarwal, M. Bohner, W.-T. Li,**


[34] **J. Appel, E. De Pascale, A. Vignoli,**


[37] **Y. Alber and I. Ryazantseva,**


[38] **D. O’Regan, Y.-J. Cho and Y.-Q. Chen,**

PRESENTATION OF PAPERS. SPEECHES


[32] **TAMPA, FLORIDA**, First World Congress of Nonlinear Analysts, August 19-26, 1992. Member of the Global Organizing Committee. Organizer, **Special Session** on “Accretive and Monotone Operator Theory.” Title: “Recent Results Involving Compact Perturbations and Compact Resolvents of Accretive Operators in Banach Spaces.”

[34] **GUANGZHOU, CHINA**, International Conference on Functional Differential Equations, May, 1993. Organized by the Mathematics Institute of the Chinese Academy of Sciences and several universities including: Anhui University, Fudan University, Hunan University, Qingdao Ocean University and Zhongshan University. **Plenary lecture.** Title: “*Compactness Methods and Methods of Lines in the Theory of Functional Differential Equations.*”


[38] **IOANNINA, GREECE**, University of Ioannina, Department of Mathematics, Invited Colloquium lecture, May 19, 1995. Title: “*Accretivity and Monotonicity in Nonlinear Evolution Equations and Elliptic Problems in Banach Spaces.*”


Second invited lecture for the special session on “Topological Methods” of Professor Y. G. Borisovich. Title: “P-Regular Mappings and Control Theory Involving Accretive and Monotone Operators”.


[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: “*New Eigenvalue Results for Perturbations of Nonlinear Maximal Monotone and m-Accretive Operators in Banach Spaces*”.


[52] **CHIBA, JAPAN**, Chiba University, Department of Mathematics. Mathematics Seminar of Professor Nobuyuki Kenmochi, May 24, 1999. Invited lecture. Title of lecture: “*Topological Degree Theories for Densely Defined Mappings Involving Operators of Type (S+).*”

[54] **FUKUOKA, JAPAN**, Fukuoka University, Department of Mathematics, Mathematics Seminar of Professor Takasi Kusano, May 28, 1999. Invited lecture. Title of lecture: “Topological Degree Theories for Densely Defined Mappings Involving Operators of Type (S+).”


[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: “Topological Degree Theories for Densely Defined Mappings Involving Operators of Type (S+).”


[63] ORLANDO, FLORIDA, USA, World Congress of Nonlinear Analysts, Invited 1-hour speaker and special session organizer. Title of the special session: “Topological Degree Theory and Its Applications”.

PH.D. STUDENTS AT USF

MAJOR PROFESSOR OF THE FOLLOWING PH.D. STUDENTS AT USF


15. **Zouhua Ding, 1996**, “Contributions to the theory of the existence of zeros of perturbations of m-accretive operators in Banach spaces”.


19. **Joseph Quarcoo, 2006,** “Contributions to the degree theory for perturbations of maximal monotone operators”.

20. **Dhruba R. Adhikari,** “Applications of degree theories to nonlinear operator equations in Banach spaces”.

21. **Ibrahimou Boubakari,** “The Leray-Schauder approach for the topological degree of perturbed maximal monotone operators”.

22. **Teffera M. Asfaw,** “Topological Degree and Variational Inequality Theories for Pseudomonotone Perturbations of Maximal Monotone Operators”.

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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