CURRICULUM VITAE

Gangaram S. Ladde

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Date of Birth: March 9, 1940

Marital Status Married, three children: Anil, Jay and Nathamd Grand Childen Lincoln, Mia and Benjamin

Citizenship Status: U. S. Citizen

EDUCATION

Ph.D. Mathematics03 Tw c.2ene2trh()Tj EMCTw c.2nKa ()Tjg-2.8 -24 w1o-2.8 2.8 (nR)01 5/.8 ((Tj EMC)Tj E I/2z)Tj -203

ADMINISTRATIVE EXPERIENCE

2015Present Director of Statistics Programs

Univerty of South Florida, Tampa

20072010 Advisor, Statistics Programs

University of South Florida, Tampa

1983-1987 Graduate Advisor

Graduate Programs in Mathematics The University of Texas at Arlington

AWARDS AND GRANTS

June 2015August 2018 US Army Office, U. S. Army Grant No: W911Nff5-1-0182

Title: Network-centric Stochastic Hybrid Dynamic Timevent Process

Modelinethods and Applications

Amount: \$433,857.00

Funding Period: June 2015 to June 15, 2018

March 2012 June2015 US Army Office U. S. Army Grant No: W911Nff2-1-0090

Title: Network Dyna Priocesse Under Stochastic Perturbations

Amou 21275,65200

Funding Period: March 2001 Lane 6 2015

June2007-March2010 US Army Office (with A. Korzeniows, V) S. Army Grant No:W911N+7-1-0283

Title: Modeling of NetBladge Fazer Zionilg 0.0513.7 0 50.003 5 Trate (flod: 051k1)-4.1 v]TJ -0.0003 5

Fall 1976	Faculty Research Fellowship, The Research Foundation of State University of New York, Albany, New York.
Fall 1975	Faculty Research Fellowship, T Re search Foundation of State University of New York, Albany, New York.
Fall 1974	

- 24. Department of Mathematics, Indian Institute of Technology at Delhi, New Delhi 016, India: December 18-20, 2001, (i) "Dynamic Processes under Random Environmental Perturbations" and (ii) Dynamic Processes ith Pastmemory"
- Department of Mathematical Sciences, N. E. S. Science College, 4310605, Maharashtra State, India: January-2, 2002, "Dynamic Processes in Biological, physical and Social Sciences with Processes in Biological, physical and Processes in Biological, physical and Processes in Biological, physical and Processes in Biological and Processes in Biologic
- Department of Mathematics, Indian Institute of Teclogyodo Madras, Chenne 00 036, Tamil Nadu State, India: December 2426, 2002, "Stochastic Moding of Inflation-Unemployment Processes".
- 27. Department of Mathematical Sciences, N. E. S. Science College, 4310605, Maharashtra State, India: January 3, 2003, "Dynamic Processes in Social Sciences with Random Perturbations".
- 28. Department of Mathematical, Goa University, Panji, India: December 13, 2005: "Hereditary and Stochastic Versus Ordinary Nombereditary"
- 29. Department of Mathematics, Mahatma Basweshawar Mahavidyalara 413 15/12, Maharashtra State, India: December 27, 2005: "A Few Illustrations in Competitive Processes in Biological, Physical and Social Sciences"
- 31. Department of Mathematics, Indian Institute of Technology at Bombay, Powai, India: December 29, 2005: "Variational Comparison Theorem: Stochastic Approximations of Dynamic Processes"
- 32. Department of Mathematics Gollege, Atlanta, Georgia, April 275, 2007: Mathematics Colloquium: Dansby Guest Lecture
- 33. Department of Chemistry, University of South Florida, Tampa, Florida: March/April 2009.
- 34. Department of Mathematics, Moœlse College, Atlanta, Georgia: Novembell 19 2012.
- 35. Department of Mathematics and Statistics, North Carolina State Universiting hRME: March 2324, 2015.
- 36. Department of Mathematics and Statistics, North Carolina State University R. NC: April 1617, 2017.
- 37. Faculty of Mathematics, Computer Science **Erod**nometrics, University of Zielona Gora, Zielona Gora, Poland: June **227**, 2018.
- 38. The Linz Institute of Technology, Johannes Kepler University, Linz, Austria: Ju26,22018.

Keynote Speaker:

- 1. The International Conference on, "Nonlinear Systems, Modeling, Simulation and Applications", N.E.S. Science College, Nanded, Maharashtra, India: Decemb2928000.
- 23 rd Anual Conference of Maharashtra Mathematics Teachers Associativamded, Maharashtra State.

- The Second International Conference on, "Neural, Parallel, and Scientific Computations", Morehouse College, Atlanta, Georgia: August 2002.
- 23. International Conference on, Stochastic Modelland IV International Workshop on Retrial Queues", Cochin University of Science and Technology, 63326022, Kerala State, India: December-27, 2002.
- 24. International Conference Operations Research for Development", Anna University, Cheonoai 025, Tamil Nadu State, India: December 22002
- 25. The Fourth International Conference on, "Dynamical Systems and Applications", **Musre**h College, Atlanta, Georgia: May221, 2003..
- An International Workshop on "Stability, Complexity and Robust Control of Dynamic Systems", Santa Clara University, Santa Clar
- 27. Fourth World Congress of Nonlinear Analysts, Orlando, Florida, USA:: Judel § 07, 2004.
- 28. 23 rd Annual Conference of Maharashtra Mathematics Teachers Associatiodeat, Nearharashtra State, India: December 2223, 2001
- 29. An International Workshop on "Differential Equations and Dynamical Systems", Guelph, Canada: July 291, 2005.
- as, 30. The 3rd Nation

- City, New York: April, 1976.
- 3. The International Conference on "Nonlinear Systems and Applications," Arlington, Texas: July, 1976.
- 4. The Initiation Ceremony of New York Phi Chapter of Pu Mu Epsilon at Potsdam, New York: October, 1976.
- 5. Mathematics Club at SUPotsdam, Ptsdam, New York: October, 1976.
- 6. The International Conference on "Applied Nonlinear Analysis," Arlington, Texas: April, 1978.
- 7. Middle School Mathematical Instructional Seminar at J. L. Long Middle School, Dallas, Texas: November, 1979.27.
- 8. Mathematics Personnel Development, Northeast Statutict, Lakewood School, Dallas, Texas: February, 1980.
- 9. Research Conference on "Differential Equations and Applications to Ecology Epidemics and Population Problems," Claremont, California: Januar §81.
- 11. The Vth International Conference on "Trends in Theory and Practice of Nonlinear Differential Equations," Arlington, Texas: June, 1982.
- 13. An Interdisciplinary Workshop at the Bishop College, Dallas: December 1982.
- 15. Twenty-third Annual Allerton Conference on Communication, Control, and Computing, Monticello, Illinois: October, 1985.
- 16. A Conference on "30 Years of Modern Optimal Control," The University of Rhode Island, Kingston, Rhode Island: June, 1988.
- 17. Fifteenth NAFEO/DOD Annual Coefence, Washington, D.C.: March-28, 1990, Panelist for NAFEO/DOD Educational Seminar.
- 18. Second International Conference on "Integral Methods in Science and Engineering (III) SErlington, Texas: May 1990.
- 19. An International Symposium on "Funotial Differential Equations and Related Topics," Kyoto, Japan: August 30-September 2, 1990.
- 20. An International Conference on "The Theory and Applications of Differential Equations," Edinburg, Texas: May 15-

35. Special Session oßtöchastic Larg&cale, and Hybrid SysterfisAmerican Mathematical Society'Annual Meeting, Atlanta, Georgia: Jo

Mathematical Society's Annual Meetin, Baltimore, Maryland: January 418, 2019.

RESEARCH SUPERVISION

Undergraduate Research Supported by the US Army Research OffideRAP:

- (a) Honors BA/BS Degree:
 - 1. Andrew J. Reilly: Mathematical ModelingMethods, and Analysis of Native Language Learning Dynamic Processes

- 2. Ongard Sirisaengtaksin: Multitime-scale Singlarly Perturbed Stochastic Systems with Application 1986.
- Janusz Golec: Approximations of Solutions of Stochastic Differential Equations88.
 Mailvaganam Kathirkamanayagan: Study of Singularly Perturbed System1988.
- 5. Michael S. Smith:

283-289. MR 47 #3777.

10. On the classes of Differential Systems with the Desired Behavior, (with S. Bernfeld and V. Lakshmikantham), Rendiconti del Circolo Matematica di Palermo, Vol. XXI (1972), pp. 8597. MR 48 #2505.

11.

- 25. Existence of Solutions of Two Point Boundary Value Problems for Nonlinear Systems, (with S. Bernfeld and V. Lakshmikantham). *Journal of Differential Equations*, Vol. 18 (1975), pp. 10310. MR 51 #6017.
- 26. Systems of Differential Inequalities and Stochastic Differential Equations II, *Journal of Matical Physics*, Vol. 16 (1975), pp. 894900. MR 55 #1463.
- 27. Differential Inequalities and Differential Games III, *Journal of Mathematical Analysis and Application Mol.* 51 (1975), pp. 36**8**-76. MR 58 #26077.
- 28. Variational Comparison Theorem and Perturbations of Nonlineaurbah1WBd [(J)4.2 (2.4 (om)21 (Td [(53E)2.5

- 58. A Stochastic Version of Turing's Cell Morphogenetic Model (with J. V. Robin Storing and Cell Kinetics (Editor: M. Rotenberg). Elsevier/Northolland: Biomedical Press, Amsterdam, The Netherlands, (1981), pp. 349356.
- 59. Competitive Processes and Comparison Differential Systems II, *Journal of Mathematical and Physical Sciences*, Vol. 15 (1981), pp. 43**8**54. MR 83g: 34086.
- 60. Feasibility Constraints on the Elastic Expansions of Model Ecosystems, (with J. V. Rob*inson), of Theoretical Biology*, Vol. 97 (1982), pp. 27**2**87. MR 84d: 92041.
- 61. The Method of Upper, Lower Solutions and Volterra Integral Equations, (with V. Lakshmikantham and B. G. Pachpatte) *Journal of Integral Equations*, Vol. 4 (1982), pp. 35**3**60. MR 84c45001.
- Existence and Asymptotic Behavior of React Diffusion Systems via Coupled Quassilutions, (with V. Lakshmikantham and A. S. Vatsa Nanihantham Phenomena in Mathematical Science Editor: V. Lakshmikantham), Academic Press, New York, (1)982. 619628. MR 85b: 35026.
- 63. Existence Theorems for a Class 28 of FURA of the control of th

- 74. On Roughness Effects in a Compressible Lubrication Problem, (with J. Chandray, Developments in Applied Mathematics, Rensselaer Press, New York, (1983/84), pp28-
- 75. Existence of Coupled Quassolutions of Systems of Nonlinear Reaction Equations, (with V. Lakshmikantham and A.S. Vatsala), *Journal of Mathematical Analysis and Application* 108 (1985), pp. 249-266. MR 86j: 35098.
- 76. Diagonalization and Stability of Multitime Scale Singularly Perturbed Linear Systems, (with S. G. Rajalakshmi), *Applied Mathematics and Computation*, Vol. 16 (1985), pp. 11540. MR 86d: 34090.
- 77. Random Difference Inequalities, (with M. Sambandham), Trends in Italiany and Practice of Notinear Analysis, (Editor: V. Lakshmikantham), Volume No. 110 orth-Holland, Amsterdam, (1985), pp. 2340. MR 87c:39004.
- 78. System of First Order Partial Differential Equations and Monotone Iterative Technique, (with atsala),
 Trends in the Theory and Practice of Nimear Analysis (Editor: V. Laksh: (. L, (. Laolume110, North-Holland, A

- 89. Oscillation of Even Order Delay Differential Equations, (with B. G. Zhang), *Journal of Mathematical Analysis and Applications*, Vol. 127 (1987), pp. 14**0**50. MR 88k: 34076.
- 90. Singular Perturbations of Linear Syste with Multi-parameter and Multiple Time Scales, (with S. G. Rajalakshmi), *Journal of Mathematical Analysis and Applications*, Vol. 129 (1988), pp. 45**4**81. MR 89a: 34062.
- 91. NearOptimum Regulators for Stochastic Singularly Perturbed Systems, (wariaaengtaksin), *Stochastic Analysis and Applications*, Vol. 6 (1988), pp. 179. MR 89b: 93117.
- 92. On Multitime Method for Large Stalled Filter (1868), (which J. Chandra and O. Sirisaengtaksin), International Journal J. 0 Tc63 T

Journal

105 Itô-Type systems of Stochastic Inte**®** ifferential Equations (with S. Sathananth<u>an, Integral Metho</u>ds in Science and Engineerin (Editors: A. HajiSheikh, Constantin Corduneanu, John L. Fry, Tseng Huang, and

- Computations, Vol. 1 (1995), pp. 2546.
- 122. Numerical Treatment of Random Population Models, (with S. Sathananthan and R. Pirapakaran), Proceedings of Neural, Parallel and Scientific Computations, Vol. 1 (1995), pp.22607.-
- 123. Itô-type Stochastic Differential Systems with Abstract Volterra Operators (with Zephyrinus C. Okonkwo). *Dynamic Systems and Applications*, Vol. 6 (1997), pp.46468.
- 124. Application of Neural Network Methodology for Approximation of Certain Extremum Problems (with N. G. Medhin and M. Sambandham), Computional Methods and Neural Networks: Parallel, Systolic and Neurocomputing (Editors: M. P. Bekakos and M. Sambandham), Dynamic Publishers, Atlanta, GA (1999), pp 267-287.
- 125. Convergence and Stability Analysis of Largeele Parabid Systems under Markovian Structural Perturbations (with M. J. Anabtawi and S. Sathananthan) *International Journal of Applied Mathematiko*l. 2 (2000), pp. 5785.
- 126. Convergence and Stability Analysis of Largue-le Parabolic Systems under Markami Structural Perturbations (with M. J. Anabtawi and S. Sathananth para) rnational Journal of Applied Mathematics, Vol. 2 (2000), pp. 87-11.
- 127. Convergence and Stability Analysis of System of Partial Differential Equations under Markovian Structural Perturbations I: Vector Lyapunovike Functions (with M. J. Anabtawi) *Stochastic Analysis and Applications*, Vol. 18 (2000), pp. 49**5**24.
- 128. Convergence and Stability Analysis of System of Partial Differential Equations under Markovian Structural Perturbationsll: Vector Lyapunovlike Functionals (with M. J. Anabtawi) *Stochastic Analysis and Applications*, Vol. 18 (2000), pp. 67696.
- Large Scale Integr**D**ifferential Systems under Structural Perturbations (with S. Sathananthan and S. Suthanaran), *Communications in Applied Analysis*, Vol. 4 (2000), pp. 459-74.
- 130. Stability and Convergence of Stochastic Approximation Procedures under Markovian Structural Perturbations (with Bonita A. Lawrence), *Dynamic Systems and Applications*Vol. 10 (2001), pp. 14**5**75.
- Block Systems of Parabolic Differential Inequalities and Comparison Theorems (with M. J. Anabtawi), <u>Proceedings of Dynamic Systems and Application</u> (Esslitors: G. S. Ladde and M. Sambandham), Vol. 3, Dynamic Publishers, Inc., Atlanta, Gejta (2001), pp. 2334.
- 132. Problem Solving Process, *The Bulletin of the Marathwada Mathematical Sociat***9**l. 2 (2001), pp. 90104.
- 133. Qualitative Analysis of Discrete Iterations and Automata Networks, *Proceedings of Neural, Parallel, and Scientific Computations*, Vol. 2 (2002), pp. 25**1**56.
- 134. Stability of Larg Scale Distributed Parameter Systems (with Ling Li), *Dynamic Systems and Applications* Vol. 11 (2002), pp. 31323.
- 135. Hybrid Systems: Convergnce and Stability Analysis of Alege Scale Approximation Schemes, *International Journal of Hybrid Systems*, Vol. 2 (2002), pp. 237262.
- 136. A Few RecentAdvancement in the Study of Hybrid System Acceedings of ICNPAA 2002: IVth International Conference on Nonlinear Problems in Aviation and Aerospace (Editor: Seenita Sivasundaram), Eu.

- 152. LargeScale Stochastic Hereditary Systems Under Markovian Structental Pations III: Qualitative Analysis, Journal of Applied Mathematics and Stochastic Analysis, Vol. 2006 (2006), Article ID 24643, 10 pages: JAMSA/24643.
- 153. Dynamic Processes Under Random EnvirorathPetturbation (with A. G. Ladde) *Bulletin of the Marathwada Mathematical Society*, Vol. 8, No. 2 (2007), pp. 9623.
- 154. Using Frequency Analysis to Determine Wetland Hydroperiod (with Lisaster, Nirzhar Saha, Mark Ross, and P. Wang), *Neural, Parallel, and Scientific Computation*, Vol. 16 (2008), pp. 1734.
- Dynamic Modeling of Root Water Uptake Using Soil Moisture Data (with Nirzhar Saha and Mark Ross), *Neural, Parallel, and Scientific Computations*, Vol. 16 (2008), pp. 10**5**24.
- 156. Modeling Hybrid Network Dynamics under Random Perturbations (with Andrzej Korzeniowski), *Nonlinear Analysis: Hybrid Systems*, Vol. 3 (2009), pp. 143-49.
- 157. Stochastic Modeling and Statistical Analysis on the Stock Price Processes (with Ling Wu), *Nonlinear Analysis: Theory and Methods*, Vol. 71(2009), pp. e12081208.
- 158. Collective Behavior of Multagent Network Dynamic Systems Under Internal and External Random Perturbations with J. Chandra Nonlinear Analysis: Real World Applications, Vol. 11 (2010), pp. 1330344.
- 159. Determinant Functions and Applications to Stochastic Differential Equations (A. G. Cadde)nications in Applied Analysis, Vol. 14 (2010), pp409-434.
- 160. Energy Function Method for Solving Nonlinear Differential equations (Rogerriby, Kaind A. G. Ladde), *Dynamical Systems and Applications*, Vol. 19 (2010), pp. 33**5**52.
- 161. Development of Nonlinear Stochastic Models by using Stock Price data and Basic Statistics (with Ling Wu), *Neural, Parallel and Scientific Computations*, Vol. 18 (2010), pp. 26982.
- Random Networks with Interacting Nodes (with Korzeniowski), *Neural, Parallel and Scientific Computations*, Vol. 18 (2010), pp. 33**3**42.
- 163. Stochastic Laplace Transform with Applications (Roger D. Kirby, and Aacde), *Communications in Applied Analysis*, Vol. 14 (2010), pp. 373992.
- Generalized Variational Comparison Theorems and Nonlinear Iterative Process under Random Parametric Perturbations (with M. Sambandha@m)munications in Applied Analysis, Vol. 14 (2010), pp. 273300.
- 165. Stochastic Modeling Analysis and Applicati**(wist**h Anil G. Ladde) *International Encyclopedia of Statistical Sciences*, (Edited: Miodrag Lovric), Springer, 2010, pp. 152631.
- Stabilization of Stochastic Systems under Markovian Switchingith S. Sathanantha6, arlos Bean and L. H. Keel), *Nonlinear Analysis: Hybrid Systems*, Vol. 4(2010), pp. 80&17.
- 167. A Twoscale Network Dynamic Model for Human Mobility Processith Divine Wanduku), *Mathematical Biosciences*, Vol. 229(2011), pp. 11-5.
- 168. Stochastic Hybrid Systems with Nonmogeneous and Boundary Jumps (With Siu), *Nonlinear Analysis: Hybrid Systems* Vol. 5(2011), pp.591602.

- 169. Global Stability of Twscale Network Human Epidemic Dynamic Model (with Divine Wanduku), *Neural, Parallel and Scientific Computations*, Vol. 19 (2011), pp. 6590.
- 170. A Multivariate Stochastic Hybrid Model with Switching Coefficients and Jumpstic@cand Distribution (with D. P.Siu), *Journal of Probability and Statistics*, Volume 2011 ID 720614, 20 pages 11. Doi:10.1155/2011/720614.
- 171. Fundamental Properties of a-tswale Network Stochastic human Epidemic Dynamic Model (with Divine Wanduku), *Neural*, *Parallel and Scientific Computations*, Vol. 19 (2011) pp. 229270.
- 172 Stochastic Fractional Differential Equations: Modeling, Method and Analysia Claude Pedjeu) Chaos, Solitons and Fractals: Nonlinear Sciences and Non-equilibrium and Complex Phenomena, Vol. 45 (2012), pp.279-293.
- 173. Global Properties of a two ale Network Stochastic Delayed human Epidemic Dynamic Model (with Divine Wanduku), *Nonlinear Analysis: Real World Applications*, Vol. 13 (2012), pp. 794816.
- 174. Generalize detwork Externality Function (with Arnut Paothong), *Economic Analysis and Policy*, Vol.42, (2012), pp. 363387.
- 175. A Class of Higher Order Stochastic Differential Equations (Jeanude Pedjeu) Dynamical Systems and Applications, Vol. 21 (2012), pp. 607630.
- 176. Global Stability of Twocale Network SIR Delayed Epidemic Dynamic Mc(Delvine Wanduku) *Proceedings* of Dynamic Systems and Applications, Vol. 6 (2012), pp437441.
- 177. MultiType Consumer Interactions under Local Network Extern(with) Arnut Paothong. *Algorithm and Computing*, (2013) 1:1637, doi:10.7726/ajac.2013.1002.
- 178. Numerical Methods for Stochastic Fractional Differential Equat(winth JeanClaude Pedje) *Neural, Parallel and Scientific Computations*, Vol. 21(2013), pp. 1??.
- 179. An Epidemiological Growth Model: Derivation, Properties and Parameter Esti**(matio**R. M. Thurman), *Neural, Parallel and Scientific Computations*, Vol. 21(2013), pp. 54**3**52.
- 180. Fundamental Properties of Solutions of Stochastic equations And Method of Variation Constants Parameters (Tadesse Zerihun), *Dynamical Systems and Application* Jol. 22 (2013), pp. 43358.
- 181. Adaptive Expectations and Policy, Vol. 43 (2013), pp353-373.
- 182. Agen Based Modeling simulation under LadoNetwork Externality(with Arnut Paothong), *Journal of Economic Interaction and Coordination*, Vol. 9 (2014), pp126.
- 183. Method of Generalized Variation of Constants Formula: Relative Stability (Tadesse Zerihun), *Communications in Applied Analysis*, Vol. 18 (2014), pp. 53**7**62.
- 184. Second Order State and Covariance Estimation for NonlSteahastic System(Susegun M. Otunuga), *Dynamical Systems and Applications*, Vol. 22 (2014), pp. 8926.
- 185. Multi-Cultural Dynamics on Social Networks under External Random Perturbational, International

- *Journal of Communications, Network and System Science*, Vol. 7 (2014), pp. 1811-95. DOI:10.4237/ijcns.2014.76020.
- 186. Stochasti Modeling of Energy Commodity Spot Price Processids Delay in Volatility (Olusegun M. Otunuga), *American International Journal of Contemporary Research*, Vol. 4 (2014), pp.-20.
- 187. Option Pricing with a LevyType Stochastic Dynamic Model for Stock Price Process under Semi-Markovian Structural Perturbations (Patrick Assonken), *International Journal of Theoretical and Applied Finance*, Vol. 18 (2015), pp **7**2.
- 188. Threshold Network Dynamic Systems and Applications, *Mathematics in Engineering, Science and Aerospace*, Vol. 7, No. 2, (2016), pp87-311.
- 189. Dynamic and Static Processes,

- 1. Network Dynamic Processes der Stochastic Perturbations, Contract Nerm W911NF12-1-0090, US Army Research Office, Research Triangle Park, North Carolina 22207, USA, August 31, 2015, pp.88.
- 2. Network-centric Stochastic Hybrid Dynamic TimeEvent Processes Modeling, Methods and Analysis, 0090

- Atlanta, Georgia, 1996.
- 4. *Proceedings of Dynami&ystems and Applications* (with N. G. Medhin and M. Sambandham) Vol. 3, Dynamic Publishers, Inc., Atlanta, Georgia, 2001.
- 5. *Proceedings of Neural, Parallel, and Scientific Computations* (with M. P. Bekakos, G. Medhin and M. Sambandham), Vol. 2, Dynamic Publishers, Inc., Atlanta, Georgia, 2002.
- 6. *Proceedings of Dynamic Systems and Applications*(with N. G. Medhin and M. Sambandham) Vol.4, Dynamic Publishers, Inc. Atlanta, Georgia, 2004.
- 7. *Proceedings of Dynamic Systems and Applications*(with N. G. Medhin Chuang Pengnd M. Sambandham) Vol.5 Dynamic Publishers, Inc. Atlanta, Georgia, 2008.
- 8. *Proceedings of Neural, Parallel, and Scientific Computations* (with M. P. Bekakos, G. Medhin and M. Sambandhan Mol. 3, Dynamic Publishers, Inc., Atlanta, Georgia, 2010.
- 9. *Proceedings of Dynamic Systems and Applications* (with N. G. Medhin, Chuang Peng and M. Sambandham) Vol.6, Dynamic Publishers, Inc. Atlanta, Georgia, 2012.