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## CURRICULUM VITAE

## Gangaram S. Ladde

- Address: Department of Mathematicand Statistics University of South Florida 4202 East Fowler Avenue, CMC 342 Tampa Florida 336205700 U.S.A. E-mail: <u>gladde@.usf.ed</u>u
- Telephone: (813) 9742664- Office (813) 5319214- Home
- Date of Birth: March 9, 1940

Marital Status Married, three children: Anil, Jay and Nathand 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 St Univeits of So	atistics Programs outh Florida, Tampa	
2007-2010	Advisor, Stati University of	stics Programs South Florida, Tampa	
1983-1987	Graduate Advisor Graduate Programs in Mathematics The University of Texas at Arlington		
AWARDS AND GRANT S			
June 2015Augu	ıst 2018	US Army Office, U. S. Army Grant No: W911NF75-1-0182 Title: Network-centric Stochastic Hybrid Dynamic Tineevent Process ModelMingthods and Applications Amount: \$433,857.00 Funding Period: June 2015 to June 15, 2018	
March 2012 Jur	ne2015	US Army Office U. S. Army Grant No: W911NF72-1-0090 Title: Network DynamiccessesInderStochastic Perturbations Amou2235,65200 Funding Period: March 220/02he 6 2015	
June2007-Marc	h2010	US Army Ŏffice (with A. Korzeniowski) S. Army Grant No:W911NH7-1-0283 Title: Modeling of Netal Mathematic (0.0513.7 0 50.003 5Trde((hof):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, TResearch Foundation of State University of New
	York, Albany, New York.
Fall 1974	

- 24. Department of Mathematics, Indian Institute of Technology at Delhi, New Delho 016, India: December 18-20, 2001, (i) "Dynamic Processes under Random Environmental Perturbations" and (ii) Dynamic Processes ith Pastmemory"
- 25. Department of Mathematical Sciences, N. E. S. Science College, **Handeob**, Maharashtra State, India: January-**2**, 2002, "Dynamic Processes in Biological, physical and Social Sciences with lensery".
- 26. Department of Mathematics, Indian Institute of Technyodo Madras, Chenno 000 036, Tamil Nadu State, India: December 2426, 2002, "Stochastic Moding of Inflation-Unemployment Processes".
- 27. Department of Mathematical Sciences, N. E. S. Science College, **Handeob**, 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 Nomereditary"
- 29. Department of Mathematics, Mahatma Basweshawar Mahavidyalara **41.3 5 1 2**, 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 Mathematidslorehouse College, 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, Mocelse College, Atlanta, Georgia: Novembell 19 2012.
- 35. Department of Mathematics and Statistics, North Carolina State Universitigh Rale: March 2324, 2015.
- 36. Department of Mathematics and Statistics, North Carolina State Universite glik, NC: April 1617, 2017.
- 37. Faculty of Mathematics, Computer Science **Endo**nometrics, University of Zielona Gora, Zielona Gora, Poland: June 227, 2018.
- 38. The Linz Institute of Technology, Johannes Kepler University, Linz, Austria: Ju27, 22018.

### Keynote Speaker:

- 1. The International Conference on, "Nonlinear Systems, Modeling, Simulation and Applications", N.E.S. Science College, Nanded, Maharashtra, India: Decemb 29,28000.
- 2. 23 rd Anural Conference of Maharashtra Mathematics Teachers Association Maharashtra State,

- 22. The Second International Conference on, "Neural, Parallel, and Scientific Computations", Morehouse College, Atlanta, Georgia: Aug**u6**t **2**002.
- 23. International Conference on, Stochastic Moldgland IV International Workshop on Retrial Queues", Cochin University of Science and Technology,-682210/22, Kerala State, India: December-271, 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", **Mase**h College, Atlanta, Georgia: May221, 2003..
- 26. An International Workshop on "Stability, Complexity and Robust Control of Dynamic Systems", Santa Clara University, Santa Clarali@rnia: December 6, 2003.
- 27. Fourth World Congress of Nonlinear Analysts, Orlando, Florida, USA:: Judel 907, 2004.
- 28. 23 rd Annual Conference of Maharashtra Mathematics Teachers Association deat, Marharashtra State, India: December 2223, 2001
- 29. An International Workshop on "Differential Equations and Dynamical Systems", Guelph, Canada: July 291, 2005.
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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 District, Lakewood School, Dallas, Texas: February, 1980.
- 9. Research Conference on "Differential Equations and Applications to Ecology Epidemics and Population Problems," Claremont, California: Januar **9**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%00%/SErlington, Texas: May 1990.
- 19. An International Symposium on "Funcetial 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 System, American Mathematical Society'&nnual Meeting, Atlanta, Georgia: Jo

Mathematical Society's Annual Meeting Baltimore, Maryland: January 1138, 2019.

## RESEARCH SUPERVISION

Undergraduate Research Supported by the US Army Research Offide RAP:

- (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 19986.
- 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 beMatical Physics*, Vol. 16 (1975), pp. 89400. MR 55 #1463.
- 27. Differential Inequalities and Differential Games III, *Journal of Mathematical Analysis and Applicationkol.* 51 (1975), pp. 368-76. MR 58 #26077.
- 28. Variational Comparison Theorem and Perturbations of Nonlineaurbah1WBd [(J)4.2 (2.4 ( om)21 ( Td [(53E)2.5

42.

- 58. A Stochastic Version of Turing's Cell Morphogenetic Model (with J. V. Robin <u>Stormathematics and C</u>ell <u>Kinetics</u> (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. 43454. MR 83g: 34086.
- 60. Feasibility Constraints on the Elastic Expansions of Model Ecosystems, (with J. V. Robinson) of *Theoretical Biology*, Vol. 97 (1982), pp. 27287. 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.
- 62. Existence and Asymptotic Behavior of ReactDiffusion Systems via Coupled Quassilutions, (with V. Lakshmikantham and A. S. VatsaNajanlinear Phenomena in Mathematical Science, €ditor: V. Lakshmikantham), Academic Press, New York, (1)98/2. 619628. MR 85b: 35026.
- 63. Existence Theorems for a Classistor fruits as to a Classistor of the crue of the crue

- 74. On Roughness Effects in a Compressible Lubrication Problem, (with J. Charten *Applied Mathematics*, Rensselaer Press, New York, (1983/84), pp28-
- 75. Existence of Coupled Quasolutions of Systems of Nonlinear ReactDiffusion Equations, (with V. Lakshmikantham and A.S. Vatsala), *Journal of Mathematical Analysis and Applicatiol* of 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), <u>Trends in Itbery and Practice of Neimear</u> <u>Analysis</u> (Editor: V. Lakshmikantham), Volume No. 1100 orth-Holland, Amsterdam, (1985), pp. 23240. MR 87c:39004.
- 78. System of First Order Partial Differential Equations and Monotone Iterative Technique, (with/atsaa), Trends in the Theory and Practice of Nomear 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. 14050. 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. 457481. MR 89a: 34062.
- 91. NearOptimum Regulators for Stochastic Singularly Perturbed Systems, (wahrisaengtaksin), *Stochastic Analysis and Applications*, Vol. 6 (1988), pp. 179. MR 89b: 93117.
- 92. On Multitime Method for Larg Scale Filtering), (with J. Chandra and O. Sirisaengtaksin), International Journal J 0 Tc63 T

Journal

105 Itô-Type systems of Stochastic IntegDifferential Equations (with S. Sathananthan, Integral Methods in Science and EngineerirgQ), (Editors: A. HajiSheikh, Constantin Corduneanu, John L. Fry, Tseng Huang, and

Computations, Vol. 1 (1995), pp. 25246.

- 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 Langerale Parabid Systems under Markovian Structural Perturbations (with M. J. Anabtawi and S. Sathananthan) *International Journal of Applied Mathematical*. 2 (2000), pp. 5785.
- 126. Convergence and Stability Analysis of Langerale Parabolic Systems under Markerwi Structural Perturbations (with M. J. Anabtawi and S. Sathananthermatical Journal of Applied Mathematics, Vol. 2 (2000), pp. 87-11.
- 127. Convergence and Stability Analysis of System of Partial Differential Differential Equations under Markovian Structural Perturbations I: Vector Lyapunovlike Functions (with M. J. Anabtawi) *Stochastic Analysis and Applications*, Vol. 18 (2000), pp. 49**3**24.
- 128. Convergence and Stability Analysis of System of Partial Differential Differential Equations under Markovian Structural PerturbationsII: Vector Lyapunovlike Functionals (with M. J. Anabtawi) *Stochastic Analysis and Applications*, Vol. 18 (2000), pp. 67696.
- 129. Large Scale IntegrDifferential Systems under Structural Perturbations (with S. Sathananthan and S. Suthanaran), *Communications in Applied Analysis*, Vol. 4 (2000), pp. 4594-74.
- 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.
- 131. Block Systems of Parabolic Differential Inequalities and Comparison Theorems (with M. J. Anabtawi), <u>Proceedings of Dynamic Systems and Applicatio</u>(Escitors: G. S. Ladde and M. Sambandham), Vol. 3, Dynamic Publishers, Inc., Atlanta, **Graia** (2001), pp. 2334.
- 132. Problem Solving Process, The Bulletin of the Marathwada Mathematical Societgl. 2 (2001), pp. 90-04.
- 133. Qualitative Analysis of Discrete Iterations and Automata Networks, *Proceedings of Neural, Parallel, and Scientific Computations*, Vol. 2 (2002), pp. 25156.
- 134. Stability of Large cale Distributed Parameter Systems (withslung Li), *Dynamic Systems and Applications* Vol. 11 (2002), pp. 31323.
- 135. Hybrid Systems: Converge and Stability Analysis of alige Scale Approximation Schemes, *International Journal of Hybrid Systems*, Vol. 2 (2002), pp. 237262.
- 136. A Few RecentAdvancement in the Study of Hybrid System *Receedings 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 Environatheetturbation (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.
- 155. 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). *Vol. 11 (2010)*, pp. 1330344.
- 159. Determinant Functions and Applications to Stochastic Differential Equations (A. G. Cadde)*nications in Applied Analysis*, Vol. 14 (2010), pp409434.
- 160. Energy Function Method for Solving Nonlinear Differential equations (Rogerrb), Kaind A. G. Ladde), *Dynamical Systems and Applications*, Vol. 19 (2010), pp. 335-52.
- 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. 269282.
- 162. 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 Aa@de), *Communications in Applied Analysis*, Vol. 14 (2010), pp. 373392.
- 164. Generalized Variational Comparison Theorems and Nonlinear Iterative Process under Random Parametric Perturbations (with M. Sambandha@mmunications in Applied Analysis, Vol. 14 (2010), pp. 27**3**00.
- 165. Stochastic Modeling Analysis and Applicati(with Anil G. Ladde) *International Encyclopedia of Statistical Sciences*, (Edited: Miodrag Lovric), Springer, 2010, pp. 152531.
- 166. Stabilization of Stochastic Systems under Markovian Switchingith S. Sathanantha@arlos Beaneand L. H. Keel), *Nonlinear Analysis: Hybrid Systems*, Vol. 4(2010), pp. 804817.
- 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 Nonomogeneous and Boundary Jumps (With P. 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 Jumputic®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-tsoale 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 (Glaude 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), *Vonlinear Analysis: Real World Applications*, Vol. 13 (2012), pp. 794816.
- 174. Generalize Network Externality Function (with Arnut Paothong), *Economic Analysis and Policy*, Vol.42, (2012), pp. 363387.
- 175. A Classof Higher Order Stochastic Differential Equations (Jeanude Pedjeu)Dynamical Systems and Applications, Vol. 21 (2012), pp. 607630.
- 176. Global Stability of Twscale Network SIR Delayed Epidemic Dynamic Mo( Delvine Wanduku) Proceedings of Dynamic Systems and Applications, Vol. 6 (2012), pp437441.
- 177. MultiType Consumer Interactions under Local Network Extern**(aviity)** Arnut Paothong *American Journal Algorithm and Computing*, (2013) 1:1637, doi:10.7726/ajac.2013.1002.
- 178. Numerical Methods for Stochastic Fractional Differential Equat(with JeanClaude Pedje), *Neural, Parallel* and Scientific Computations, Vol. 21(2013), pp. 1??.
- 179. An Epidemiological Growth Model: Derivation, Properties and Parameter Esti(matioR. M. Thurman), *Neural, Parallel and Scientific Computations*, Vol. 21(2013), pp. 543552.
- 180. Fundamental Properties of Solutions of Stochastic equations And Method of Variation Constants Parameters (Tadesse Zerihun), *Dynamical Systems and Application* (12 (2013), pp. 433-58.
- 181. Adaptive Expectations a Domamic Models for Network Good (with Arnut Paothong), *Economic Analysis and Policy*, Vol. 43 (2013), pp353-373.
- 182. AgenBased 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. 53762.
- 184. Second Order State and Covariance Estimation for Non Steahastic System (Slusegun 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. Stochastid Modeling of Energy Commodity Spot Price Processids Delay in Volatility (Olusegun M. Otunuga), American International Journal of Contemporary Research, Vol. 4 (2014), pp.-20.
- 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 72.
- 188. Threshold Network Dynamic Systems and Applications, *Mathematics in Engineering, Science and Aerospace,* Vol. 7, No. 2, (2016), p**2**87-311.
- 189. Dynamic and Static Processes,

- 1. Network Dynamic Processesder Stochastic Perturbations, Contract Nernb/911NF12-1-0090, 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 DynamicSystems 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 DynamicPublishers, Inc. Atlanta, Georgia, 2008.
- 8. *Proceedings of Neural, Parallel, and Scientific Computations* (with M. P. Bekakos, G. Medhin and M. Sambandhan) Ol. 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.