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RESEARCH AREAS:

NON-ARCHIMEDEAN FUNCTIONAL ANALYSIS, GRAPH THEORY RELATED TO COMPUTER SCIENCE, LINDENMAYER SYSTEMS, COMPUTER APPLICATIONS, (IMAGE PROCESSING (WATERMARKING AND ROBUSTNESS USING WAVELETS), DATA MINING, SOFTWARE DEVELOPMENT FOR LEARNING MATHEMATICS)

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RESEARCH INTERESTS:

- Mathematical modeling of plants (Lindenmayer systems (L-systems) A language developed by Arstid Lindenmayer for explanation of the development of plants)
- Image processing (watermarking using wavelets)
- Data mining applications
- Software development for learning mathematics.

PUBLICATIONS:

1. Banach algebra of Lipschitz functions over valued valueds, Indag.Math.,40,1978, 15-26.
2. The structure of ideals in the Banach algebra of Lipschitz functions over valued fields, Compositio Math.48, 1983, 25-34.
3. Banach space of Lipschitz functions over valued fields, Bulletino U.M.I.(6), 1985, 253-260.
4. (with P.N.Natarajan) The space $Co(p)$ over valued fields, Rocky Mountain J.Math.,16,1986,129-136.
5. (with V.Karunakaran) Analytic functions over valued fields, Internat.J.Math.and Math.Sci.,13,1990,247-252.
6. On the versatility of Ramanujan's ideas, Proc.Ramanujan Centenary Symposium, Madurai Kamaraj University, DSA Report, 118-129, 1997.
7. (with V.Swaminathan and Emanuel Jebaraj) On Labelled Ramsay Numbers, Proc.of the National Seminar on Recent Trends in Algebra and its applications, 1999, 95-105.

8. (with V.Swaminathan and D.Pandiyaraja) Generalized Eulerian Graphs, Proc.of the National Seminar on "Applications of Mathematics",2000, 49-50.
9. (With Jeyabharathi Saravanan) "Tabled Matrix Parallel Communicating OL Array System", J.Applied Science Periodical, 2002, 63-68.
- 10.(with V.Senthil) Robustness towards Digital watermarking in Images using wavelet transforms, Proc.International conf. Recent Trends in Information systems (IRIS 06), National Eng.College, Kovilpatti, Tamilnadu, Jan. 8-6, 2006, pp.31-37.
- 11.(with V.Senthil) Wavelet based digital image watermarking with robustness against geometric attacks, International conf. on computational intelligence and multimedia applications, IEEE CNF, Vol.4, pp.89-93, ICCIMA, Dec. 13-15,2007
- 12.(with M.M.Ramya, R.Murugesan) GA-based image adaptive watermark embedding for optimal fidelity and robustness in medical images, International conference on Advances in Information and communication technologies (ICICOT07), 28-30 Dec. 2007 (Co sponsored by IEEE, Bangalore Chapter) held at Manipal Institute of Technology, Proceedings published by Macmillan and Co. in (Advanced Research Series), pp.304-311.
- 13.(with C.Saritha, R.Murugesan, M.Sumathi) Secure dual watermarking in the wavelet domain for teleradiology, International conference on Advances in Information and communication technologies (ICICOT07), 28-30 Dec. 2007 (Co sponsored by IEEE, Bangalore Chapter) held at Manipal Institute of Technology, Proceedings published by Macmillan and Co. in (Advanced Research Series), pp.312-316.
- 14.(with P.G.Jansirani), Extracting guidance rules to have scholastic achievement using rough set theory in data mining, International Conference on Data Management (ICDM 2008), held at Institute of Management Technology, Ghaziabad, 25th,26th Feb. 2008 Proceedings published by Macmillan in Advanced Research series pp.565-577.
- 15.(with K.Perumal) Mining framework to Mine Association rules for rural area resources, International Conference on Data Management (ICDM 2008), held at Institute of Management Technology, Ghaziabad, 25th,26th Feb. 2008 Proceedings published by Macmillan in Advanced Research series pp.93-102.
- 16.(with Medline Kiruba, Sam M. Job) On the applicability of Association and Classification Techniques in Data mining, International Conference on Data Management (ICDM 2008), held at Institute of Management Technology, Ghaziabad, 25th,26th Feb. 2008 Proceedings published by Macmillan in Advanced Research series pp.309-316.