**An overview of Variable precision rough sets**

**G.Ganesan**

Professor, Department of Mathematics, Adikavi Nannaya University, Rajahmundry, Andhra Pradesh, India

Email: [prof.ganesan@yahoo.com](mailto:prof.ganesan@yahoo.com)

The inception approach of Pawalk on rough sets yields Two way approximations of a given concept with the available knowledge. This approach is limited in quantifying the importance of any basic granule involved in approximation. Hence, in early nineties, Wojciech Ziarko generalized the theory of rough sets into VPRS [Variable Precision Rough Sets]. This theory has been obtained by replacing the conventional inclusive relation by almost inclusive relation. In this lecture, the definitions, properties and some of the applications of VPRS will be demonstrated.

**Prof.G.Ganesan *M.Sc.,M.Phil.,Ph.D.,M.Tech[CSE],FIETE***

**Professor & Head Department of Mathematics**

**Adikavi Nannaya University Rajahmundry [A.P]-533105 India**

Email: [PROF.GANESAN@YAHOO.COM](mailto:PROF.GANESAN@YAHOO.COM)

**I. Affiliation** Working as Professor in Adikavi Nannaya University, Rajahmundry, Andhra Pradesh since November 2008

**II. Experience** Teaching : Since June, 1992 Administration: Since November, 2005 **III. Administrative Responsibilities & Academic Outreach**

Head, Department of Mathematics, Adikavi Nannaya University, Rajahmundry from February 2010-Till Date

Principal, University College, Adikavi Nannaya University, Rajahmundry from December 2008-December 2009

Member, Central Purchase Committee, Adikavi Nannaya University, Rajahmundry from December 2008-Till Date

Member, Tuition Fee & Scholarship Monitoring Cell, Adikavi Nannaya University, Rajahmundry from August 2009-Till Date

Convener, PG Admissions-2009, Adikavi Nannaya University, Rajahmundry

Convener, Research Admissions-2009, Adikavi Nannaya University, Rajahmundry

Coordinator, MS Maths & Computing, Adikavi Nannaya University, Rajahmundry from November 2009-February 2010

**IV. Area of Research:** Soft Computing, Discrete Mathematical Structures

**V. Membership in Societies/Institutions**

**National --- 5**

**International --- 6**

**VI. Awards/Honours - 5**

**VII. Conferences/Workshops organized - 80 VIII. Research Publications - 45 IX. Editorial Board Activities in Research Journals - 10 X Academic Outreach**

1) Member, Board of Studies, Department of Mathematics, Adikavi Nannaya University, Rajahmundry Since August, 2012

2) Member, PG Board of Studies in Mathematics, Jawaharlal Nehru Technological University, Anantapur from April 2010 to September , 2012

3) Member, Board of Studies of School of Mathematical and Information Sciences, Adikavi Nannaya University, Rajahmundry from May 2010 to July, 2012

4) Member, Board of Studies of Common Science for 5-yr Integrated Courses, Adikavi Nannaya University, Rajahmundry from May 2010 to July, 2012

5) Member, Board of Research Studies, Adikavi Nannaya University, Rajahmundry since September 2010