

INVITATION & CALL FOR PAPERS

SECOND  
NATIONAL CONFERENCE ON  
UNCERTAINTY: A MATHEMATICAL APPROACH  
(UAMA-2008)

September 23-24, 2008

AT

M.U.C.Women's College



Organized by  
Department of Mathematics  
M.U.C Women's college, Burdwan

Sponsored by  
University Grants Commission  
Kolkata Office

## **OBJECTIVES:**

One of the major advancements in science and mathematics in the last century was the concept of uncertainty. According to the traditional view, science should strive for certainty in all its manifestations such as precision, vagueness, inconsistency, nonspecificity etc was regarded as unscientific. But according to the modern view, uncertainty is considered not only essential to science but, in fact, a great utility.

There are several forms of uncertainty prevailing in the real world. One of the oldest concepts is the *probability theory*, a theory whose very purpose is to capture uncertainty of a certain type. Later in 1965, L.A.Zadeh published his revolutionary work on *fuzzy sets*. This theory challenged not only probability theory as the sole agent for uncertainty, but the very foundations upon which probability theory is based. And the concept of *fuzzy logic* is born. In 1982 Pawlak gave another concept of uncertainty, and it is called *Rough set theory*. Later years the combination of fuzzy set and rough set was introduced by Dubois & Parde (1990 &1992), which have distinct domain of applicability. The theory of rough sets has proved very useful in the study of intelligent systems characterized by insufficient & incomplete information.

At the beginning of this century many branches of Fuzzy Mathematics, such as Fuzzy functional analysis, fuzzy topology, fuzzy OR, Possibility theory, Fuzzy logic etc have emerged and flourished, keeping in view its immense possibilities. Few of the emerging areas of application are fuzzy pattern recognition, fuzzy systems and different areas of engineering. Also fuzzy set theory is being applied to Medicine, Economics, Statistics and many more. Our aim is to supply information and share knowledge about these sophisticated areas of modern mathematics among young researchers, teachers & students of this country.

## **KEY-AREAS:**

The key areas of the conference but not limited to:

Fuzzy Set Theory & Analysis, Fuzzy Logic, Rough Set Theory, Soft Set Theory, Probability Theory, Possibility Theory, Fuzzy Pattern Recognition, Soft computing etc and their Applications.

## **DURATION:**

The duration of the conference will be for two days: September 23<sup>rd</sup> &24<sup>th</sup>, 2008, from 9:00 AM to 5:30 PM. Registration will start at 8:30 A.M. on 23<sup>rd</sup> September 2008.

A pre-conference tutorial for students and other who are interested in doing research in these areas, will held on 22<sup>nd</sup> September from 1:00 P.M. onwards.

## **VANUE:**

M.U.C Women's College, B.C.Road, Burdwan, West-Bengal

The college campus is about 2 Km from Burdwan Jn Railway Station on Eastern Railway (about 100 Km. from Kolkata).

## COLLEGE AT A GLANCE

M.U.C Women's college, Burdwan located in the Queen's palace of the erstwhile Maharajadhiraj Uday Chand Mahatab was established in 1955 for spreading the light of higher education among women of Burdwan & the neighbouring districts. Started as a Govt. Sponsored General Degree college this institute of higher studies has expanded over the years. At present it caters to the needs of over two thousand students offering Honours Courses in fourteen subjects in Humanities & Science streams and studying General Degree Course in two shifts-Day & Morning. Recently M.A. course in English has started in the college. The first NAAC accredited (B++) college under the University of Burdwan; MUC Women's College has already made a name for itself for quality education & can boast of producing a great number of University toppers in different subjects during the eventful 50 years of its life. Departmental Seminars are a regular feature of this college. The college is never complacent in its attitude for it knows that excellence is no destination but a progress forwards.

The Department of Mathematics started its journey in the year 1968. Today it runs Honours & General courses in mathematics having over 150 students. The students have consistently shown good results in University examinations. Besides the college library, it also has a departmental library having a modest collection of books. It also has a computer laboratory of its own.

### **NATIONAL ADVISORY COMMITTEE**

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13. PROF. A.P.BAISNAB, (Retired) Department of Mathematics, University of Burdwan.
14. PROF. M.SAHA, Department of Mathematics, University of Burdwan.



## **ELIGIBILITY:**

The conference is intended to benefit scientists, college and university faculty members and students and is likely to have a positive impact on all the different fields where probability factor and fuzzy sets are applied. Women participants are specially encouraged to apply.

## **SUBMISSION OF ABSTRACTS:**

Registered participants are entitled to submit an abstract as presenting author and may be co-author of further abstracts. The Abstract may be submitted electronically through e-mail: ([uama\\_2008@rediffmail.com](mailto:uama_2008@rediffmail.com), [uama\\_2008@yahoo.co.in](mailto:uama_2008@yahoo.co.in), [pmajumdar2@rediffmail.com](mailto:pmajumdar2@rediffmail.com)) followed by a hard copy on A4 size paper. The Abstract should preferably be within 300 words covering 240× 160mm space with 1.5-line spacing, Times New Roman font with 12 pts size in order to ensure uniformity and legibility. The last date for submission of Abstract is June 15, 2008. The full paper must reach within July 15, 2008. Acceptance of the paper for presentation will be notified after expert review by 30<sup>th</sup> July.

Papers may be submitted directly to the conference website:  
[www.mucwc.org](http://www.mucwc.org)

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