

# CONFIGURATION SPACES AND APPLICATIONS

Centre International de Mathématiques Pures et Appliquées (CIMPA)  
National Center for Mathematics & School of Mathematical Sciences  
Lahore

announce the winter School on Configuration Spaces and Applications. The School will take place in the city of Lahore, the heart of old civilizations, cultural hub of the Indian subcontinent and renowned for its unique exclusive cuisine.



**Applicants from outside Pakistan may register online at:**

<http://www.cimpa-icpam.org/Anglais/Registration/applicationformcimpa.php>

For more information please visit the CIMPA website:  
<http://www.cimpa-icpam.org>

**Applicants from Pakistan should send their applications to the local coordinator:**

Dr. A.D.R. Choudary,  
Director General,  
School of Mathematical Sciences, GC University,  
Lahore, Pakistan.  
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**Applications Deadline:**  
**December 20, 2006**

**Date: 12 –18 February 2007**

**Location:**

School of Mathematical Sciences, 68-B, New Muslim Town, Lahore, Pakistan.

**Objectives of the School:**

The aim of this School is to introduce the students to the theory of configuration spaces, some classical and new results in this field. The mini courses at the School will also address the numerous applications of these results in real life. In the same time the School is meant to expose to the Ph.D students new important areas of research in Geometry and Topology.

**Organizers:**

B. Berceanu (Institute of Mathematics, Bucharest, Romania), A.D.R. Choudary (School of Mathematical Sciences, Lahore, Pakistan), A. Dimca (Université de Nice, France), S. Kallel (Université de Lille, France).

**Working Language:** English

**Scientific Programme:**

Our preliminary plan contains five mini-courses:

1. Basic properties of configuration spaces
2. Configuration spaces and algebraic varieties
3. Mixed Hodge structures and fundamental groups
4. Configuration spaces and persistent homology
5. Algebraic geometry and robotics

**Prerequisites:**

The school is open to all mathematicians working in pure and applied mathematics. A previous familiarity with algebraic topology and algebraic geometry would be very useful.