Potential attendants:

- Preferably, students should have completed—or be doing—graduate/postgraduate studies and/or research in topics related with SPATIAL ANALYSIS: Regional Science, Urban Economics, Local Planning, International Economics, Geopolitics, Transport, Networks, Geomarketing, Epidemiology, etc.

- Experts working in regional/urban research and local planning in Governmental Agencies and Research Institutes are welcome.

- Exceptionally, undergraduate students: + 200 credits ECTS.

REGISTRATION FEES:

<table>
<thead>
<tr>
<th>Category</th>
<th>Before May 12, 2014</th>
<th>After May 12, 2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Members of the ECONRES research group and the project UAM-Santander.</td>
<td>0 €</td>
<td>0 €</td>
</tr>
<tr>
<td>Graduate and Post-graduate students from UAM.</td>
<td>75 €</td>
<td>150 €</td>
</tr>
<tr>
<td>Graduate and Post-graduate students from other Universities or Academic Institutions.</td>
<td>100 €</td>
<td>200 €</td>
</tr>
<tr>
<td>Scholars from UAM and other Universities or Academic Institutions</td>
<td>200 €</td>
<td>300 €</td>
</tr>
<tr>
<td>People from other private or public institutions</td>
<td>350 €</td>
<td>500 €</td>
</tr>
</tbody>
</table>

For ON-LINE REGISTRATION and FEE PAYMENT, select the correct option in the following webpage: http://matriculas.fuam.es/matrículauam/Convocatorias.action

SPATIAL ECONOMETRICS WITH APPLICATIONS IN GEODASPACE AND R

Place: FACULTY OF ECONOMICS AND BUSINESS ADMINISTRATION, UNIVERSIDAD AUTÓNOMA DE MADRID

Duration: From May 21 to 23, 2014 (18 hours)

Faculty:

- Dr. Dusan Paredes (UCN, Chile)
- Dr. Coro Chasco (UAM, Spain)

Maximum: 30 students

Organized and sponsored by:
The GOAL of the Seminar is to provide the participants with a sound understanding of basic and more advanced principles of spatial econometrics and to offer tools for practical application of the methodology. Commonly available software products (GeodaSpace and RStudio) will be introduced and practiced in the PC training sessions.

Program:

I PART: Basics of Spatial Regression Models (4 hours).

1st Session: Wednesday 21st May, 15:30 – 19:30 (4 hours)
I.2. Introduction to spatial dependence: the spatial autoregressive process and spatial spillovers.

II PART: Spatial Autoregressive Models (8 hours).

2nd Session: Thursday 22nd May, 9:30 – 13:30 (4 hours)
II.1. Motivation and interpretation of the Spatial Autoregressive Regressive (SAR) model.
II.2. Estimation of the SAR model with Maximum Likelihood (ML) and interpretation of the estimates.

3rd Session: Thursday 22nd May, 15:00 – 19:00 (4 hours)
II.3 Specification strategy in spatial dependence models under a ML framework: model comparison and W matrix.
II.4. PRACTICAL SESSION: Introduction to the use of RStudio and GeoDaSpace in spatial econometrics and applications to socioeconomic data.

III PART: Other Specifications and Estimation Methods of Spatial Regression Models (6 hours).

4th Session: Friday 23rd May, 9:30 – 13:30 (4 hours)
III.1. Spatial Two Stage Least Squares (S2SLS), General Moments Method (GMM) and heteroskedasticity.
III.2. Spatial heterogeneity models: spatial trend, spatial regimes and Geographically Weighted Regression (GWR).

5th Session: Friday 23rd May, 15:00 – 17:00 (2 hours)
III.3. PRACTICAL SESSION: Specification strategy in spatial dependence models in RStudio and GeoDaSpace with applications to socioeconomic data.

Organized and sponsored by: