



# INSCRIPCIÓ DE TESI DE MÀSTER

MASTER'S THESIS REGISTRATION

**MÀSTER:** Artificial Intelligence



## DADES ESTUDIANT

Student's Data

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## DADES TESI DE MÀSTER

Master's Thesis Data

**TÍTOL:** Multiplicative Attribute Graph Model of Complex Networks with Resource Depletion

Title

**DIRECTOR/A:** Sergio Gomez

Supervisor

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Co-supervisor

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Tutor

**DEPARTAMENT:** URV - Universitat Rovira i Virgili

Department



**ESPECIALITZACIÓ:** Escollir Especialització / Try Specialization

Specialization



**MODALITAT:**

Modality



**Empresa (nom):**

Company (name)

**País:**

Country



**Universitat (nom):** Universitat Rovira i Virgili

University (name)

**País:** Spain

Country

**Breu descripció (ompliu en majúscules)**

Brief description (fill it in capital letters)

MANY REAL WORLD PROBLEMS DISPLAY A SPECIFIC COMPLEX NETWORK STRUCTURE, WHERE THE NODES OF THE NETWORK REPRESENT RESOURCE CENTERS AND THE EDGES OF THE NETWORK REPRESENT CONNECTION PATHS THAT CAUSE RESOURCE DEPLETION AS AN ENTITY TRAVERSES THE EDGE. THE GOAL OF THIS WORK IS TO INVESTIGATE EXPLOITABLE PATTERNS IN THE STRUCTURE OF THESE NETWORKS WITH MULTIPLICATIVE GRAPH MODELS TO DEVELOP A METHODOLOGY OF DETERMINING THE OPTIMAL GROWTH FOR THIS CLASS OF NETWORKS.

Barcelona, (date) January 15, 2017

**Signatura Estudiant**  
Student's signature

**Vist-i-plau Director/a o Ponent**  
Supervisor's or Tutor's agreement

**Vist-i-plau Coordinador Màster**  
Master Coordinator's agreement