

# ICPR 2016 Competition on Subgraph Spotting in Graph representations of Comic book Images

## Why SSGCI competition?

Graphs are a powerful relational data structure, which are very widely used in pattern recognition. Graphs provide an expressive and convenient way to represent the structure, topology and attributes of underlying information. Searching a query graph in a database of graphs is a general problem in structural pattern recognition, which has its applications in various domains including (but not limited to) computer vision, image analysis, data mining and machine learning. This problem becomes more challenging if the nodes and the arcs of the graphs contain attributes as well.

## What is SSGCI competition about?

**Challenge:** SSGCI is focused on the challenge of searching a query attributed graph in a database of attributed graphs and to provide the node correspondences between query and result graphs.

**Dataset:** The graph datasets for the competition have been constructed by representing the contents of scanned comic book images by attributed region adjacency graphs (RAGs) containing attributes on nodes. The graphs are provided in GraphML format.

**Evaluation metrics:** The evaluation metrics are based on traditional precision/recall as well as a score which is based on the quality of node correspondences between query and result graphs.

## How to participate in SSGCI competition?

1. Register your interest by writing to [ssgci.icpr@gmail.com](mailto:ssgci.icpr@gmail.com)
2. Download sample dataset and adapt your program to the input/output file formats
3. Run your program on the test dataset and submit the results in the form of an XML file

*The participants of SSGCI will be invited to submit papers for a special issue of a well reputed journal.*

## Who are the organizers of SSGCI competition?

BURIE Jean-Christophe\*, FOGGIA Pasquale+, GUÉRIN Clément\*,  
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and RIGAUD Christophe\*

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## Keywords

- Attributed graph
- Region adjacency graph
- Graph matching
- Graph isomorphism
- Subgraph isomorphism
- Subgraph spotting
- Graph indexing
- Graph retrieval

## Important dates

- ❖ Sample dataset is published: 06 June 2016
- ❖ Registration is closed: 27 June 2016
- ❖ Test dataset is published 01 July 2016
- ❖ Deadline to submit the results: 15 July 2016
- ❖ Deadline to submit description of method: 22 July 2016
- ❖ Deadline to submit paper for ICPR: 15 August 2016
- ❖ Results are announced: Dec 2016 during ICPR

