

## SSGCI-3CG : Classification of Comic Character Graphs

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### Keywords

- Attributed graph
- Region adjacency graph
- Graph clustering
- Graph classification
- Graph matching
- Graph isomorphism
- Subgraph isomorphism
- Subgraph spotting

### Important dates

- Registration is opened: 16 February 2018
- Training set is released: 16 March 2018
- Registration is closed: 30 March 2018
- Test set is released: 02 April 2018
- Deadline to submit the results: 15 April 2018
- Deadline to submit description of method: 22 April 2018
- Results are announced: 20-24 August during ICPR 2018

### 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, pattern recognition and machine learning. This problem becomes more challenging if the nodes and the arcs of the graphs contain attributes as well. After successful organization of SSGCI competition during ICPR-2016 we are proposing a new challenge for the second edition of SSGCI competition in conjunction with ICPR-2018.

### What is ICPR-2018's edition of SSGCI competition about?

**Challenge:** The challenge of ICPR-2018's edition of SSGCI is "3CG: Comic Character Classification" i.e. classification of attributed-region-adjacency-graph representations of pre-segmented comic characters.

**Dataset:** The graph datasets for the competition have been constructed by representing the pre-segmented comic-characters from scanned comic book images by attributed-region-adjacency-graph. The graphs are provided in GraphML format.

**Evaluation metrics:** The evaluation metrics are based on traditional metrics for measuring the quality of classification results.

### How to participate in SSGCI competition?

1. Register your interest by writing to [ssgci.icpr@gmail.com](mailto:ssgci.icpr@gmail.com)
2. Download training set and adapt your program to the input/output file formats
3. Run your program on test set
4. Submit the results in XML format

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

### Who are the organizers of ICPR-2018's edition of SSGCI competition?

**Organizing Committee:** DUTTA Anjan, LE Thanh Nam, LUQMAN Muhammad Muzzamil, RIBA Pau and RIGAUD Christophe

**Scientific Committee:** ADAM Sébastien, BURIE Jean-Christophe, FOGGIA Pasquale, HEROUX Pierre, LLADOS Josep and OGIER Jean-Marc



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