

Dear TC15 members,

Welcome to the **springer 2023 edition of the TC15 newsletter**. All the chairs of the TC15 hope this newsletter finds you in good health.

After several months of absence, this edition provides a lot of interesting information about our community from now and until 2023.

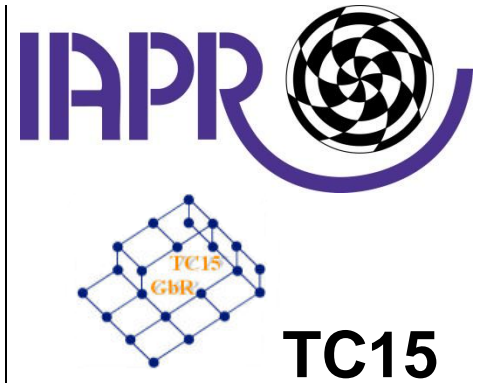
Some updated Calls for Papers are also included below with information about the new web site and request for your help.

Do not hesitate to send us (jyramel@univ-tours.fr) brief abstracts, we will be pleased to include them in the next TC15 newsletter

Best regards,

Jean-Yves Ramel

TC15 newsletter editor



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## TC15 Chairs' Message

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We are pleased to announce two important news in this newsletter:

- **A new website has been created**, with a specific domain for TC15. We tried to revamp the old site with new graphics. Content porting is in progress. We also plan to add new features throughout the year: an announcements page, an archive of the most significant datasets for our community, a page with member publications, etc. We expect to have some resources to implement these features between September and December. We also search for a new TC15 logo, if you have any graphic talent, you are welcome to propose something about it
- The **call for Papers GbR 2023** has been already announced, but now we encourage you to publicize the event so that we can, after last year's stop, again offer a nice opportunity for meeting, networking, and research exchanges. You will find the CfP in this newsletter and all the detail in the website.

Best regards,

Donatello and Vincenzo

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## New website published

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We are pleased to announce the new website at: <https://iapr-tc15.org>. Please do not hesitate to send us your remarks or suggestions for improvement. We plan to add some new features to the website, such as an announcements page, and so on. On that as well, if you have any suggestions or if you want to contribute or help us to manage the website, do not hesitate to contact us.

And last, but not least, we announce a **Call for Logo!** Use your talents to create a new TC15 logo: if you have any proposal, please contact us (Donatello and Vincenzo).

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## Call for Contributions

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To contribute news items, please send a short email to the editor, JY RAMEL (jyramel@univ-tours.fr). Contributions might include conference and workshop announcements or reports, career opportunities, book reviews, or anything else of interest to the TC15 community.

## Upcoming conferences & Call for papers

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### GBR 2023, Vietri sul Mare, Italy (on September 6 - 8, 2023)

Our next GbR workshop is back again. Save the date and spread the news everywhere.

#### Preliminary Call For Papers

GbR is a biennial workshop organized by the 15th Technical Committee of IAPR, aimed at encouraging research works in Pattern Recognition and Image Analysis within the graph theory framework. This workshop series traditionally provides a forum for presenting and discussing research results and applications in the intersection of pattern recognition, image analysis on one side and graph theory on the other side.

In addition, given the avenue of new structural/graphical models and structural criteria for solving computer vision problems, GbR2023 organization encourages researchers in this more general context to actively participate in the workshop. Furthermore, the application of graphs to pattern recognition problems in other fields like computational topology, graphic recognition systems and bioinformatics is also highly welcome at the workshop.

<p><i>Important dates</i></p> <ul style="list-style-type: none"><li>• Paper submission – April 14, 2023</li><li>• Notification of acceptance – June 2, 2023</li><li>• Camera Ready – July 7, 2023</li><li>• Early Registration – June 30, 2023</li><li>• Workshop – September 6-8, 2023</li></ul> <p><i>Topics of interest</i></p> <ul style="list-style-type: none"><li>• Graph based methodologies for pattern recognition</li><li>• Graph representation of images and shapes</li><li>• Graph neural networks</li></ul>	<ul style="list-style-type: none"><li>• Graph matching and classification</li><li>• Graph distance and similarity measures Graph based learning and clustering</li><li>• Graph kernels and graph embeddings</li><li>• Graphs in bioinformatics</li><li>• Graph in social network analysis</li><li>• Other graph based applications in pattern recognition</li></ul> <p><i>General Chairs</i></p> <ul style="list-style-type: none"><li>• Mario Vento, University of Salerno (Italy)</li><li>• Pasquale Foggia, University of Salerno (Italy)</li><li>• Donatello Conte, Université de Tours (France)</li></ul>
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Web site: <https://gbr2023.unisa.it/>

### SSPR 2022, Montreal, Canada (August 26-27, 2022)

The Joint International Workshops on Statistical Techniques in Pattern Recognition (SPR) and Structural and Syntactic Pattern Recognition (SSPR) will be held in person, right after ICPR 2022. However, remote presentations and attendance can be accommodated.

<p><i>Important dates</i></p> <ul style="list-style-type: none"><li>• Paper Submission: May 31</li><li>• Acceptance notification: July 11</li><li>• Camera ready papers + Copyright Form: September 12</li></ul> <p><i>Topics</i></p> <ul style="list-style-type: none"><li>• Structural Matching</li><li>• Structural Complexity</li><li>• Syntactic Pattern Recognition</li><li>• Graph-theoretic Methods</li><li>• Graphical Models</li><li>• Structural Kernels</li></ul>	<ul style="list-style-type: none"><li>• Spectral Methods</li><li>• Spatio-Temporal Pattern Recognition</li><li>• Structured Text Analysis</li><li>• Stochastic Structural Models</li><li>• Intelligent Sensing Systems</li><li>• Multimedia Analysis</li><li>• Multimedia Retrieval</li><li>• Image Document Analysis</li><li>• Image Understanding</li><li>• Shape Analysis</li><li>• ...</li></ul>
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Web site: <https://sspr2022.encs.concordia.ca/>

### ICPRAI 2022, Paris (1-3 June 2022)

#### Special Session on “Graphs for Pattern Recognition: Representations, Theory and Applications”

Graphs have gained a lot of attention in the pattern recognition community thanks to their ability to encode both topological, geometrical, and semantic information. Despite their invaluable descriptive power and their invariance to diverse geometric deformations, their arbitrarily complex structured nature poses serious challenges when they are involved in Pattern Recognition and Artificial Intelligence. Some challenging problems are: a non-unique representation of data, heterogeneous attributes (symbolic, numeric, etc.), highly complex algorithms like (sub-) graph matching. This Special Session intends to focus on all aspects of graph-based representations in Pattern Recognition and Artificial Intelligence, from theoretical to applications concerns

<p><i>Important dates</i></p> <ul style="list-style-type: none"><li>• <i>Conference: June 1-3, 2022 (Paris)</i></li><li>•</li></ul> <p><i>Topics</i></p> <ul style="list-style-type: none"><li>• Dynamic, spatial and temporal graphs</li><li>• Graph representations and methods in computer vision</li><li>• Geometry and Topology in Graphs</li></ul>	<ul style="list-style-type: none"><li>• Graph Neural Networks Benchmarks for Graphs in Pattern Recognition</li><li>• Graph Learning and Classification</li><li>• Graph Matching</li><li>• Social Networks Analysis</li><li>• Graph Representation Learning</li><li>• ...</li></ul>
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Web site: <https://icprai2022.sciencesconf.org/>