

Dec 12, 2016 - Barcelona, Spain

# DAPS 2016

The first International workshop on  
**Data mining for the Analysis of Performance and Success**

## Call for papers

The First International Workshop on Data mining for the Analysis of Performance and Success (DAPS 2016) will be held in conjunction with The IEEE International Conference on Data Mining series (ICDM) on 12th Dec 2016, in Barcelona, Spain.

The increasing availability of Big Data, able to capture diverse collective phenomena, provides an unprecedented opportunity to explore the patterns underlying success. From the strategies followed by successful sportsmen to the emergence of runaway videos on YouTube, from popularity in social media to rising starts in the scientific enterprise, from widespread technologies to groundbreaking innovations, there is wealth of data that can be explored to answer common questions: How can we measure performance? What are the common patterns of success? How did successful individuals and products get to the top? What are the principles driving the dynamics of success? These are the challenging questions at the core of the emerging *Science of Success*, an interdisciplinary field that is attracting scientists from different scientific backgrounds.

The purpose of this workshop is to bring together researchers from a variety of areas, all working on the problem of analyzing and understanding the patterns of success, though from different angles. The aim is to discuss: 1) the recently developed machine learning and data mining techniques that can be leveraged to address challenges in analyzing performance and success, and 2) starting from challenges in analyzing performance and success, the practical research directions in the machine learning and data mining community.

The best papers of the workshop will be invited to contribute to a special issue on "Performance and Success" edited by the journal [Complexity](#).

For more information visit the workshop website: <http://kdd.isti.cnr.it/daps2016>, and the ICDM conference website: <http://icdm2016.eurecat.org/>. You can follow news about DAPS2016 on Twitter (@DAPSworkshop) and Facebook (<https://www.facebook.com/DAPSworkshop/>)

## Instructions for paper submission:

- Paper submissions should be limited to a maximum of eight (8) pages in the IEEE 2-column format, including bibliography and any possible appendices. Microsoft Word templates and LaTeX templates are available at the following web page:  
[www.ieee.org/conferences\\_events/conferences/publishing/templates.html](http://www.ieee.org/conferences_events/conferences/publishing/templates.html)
- Authors are kindly invited to submit the papers electronically in PDF format through the IEEE ICDM CyberChair online submission system (<https://wi-lab.com/cyberchair/2016/icdm16/index.php>).  
We do not accept email submissions.
- All submissions will be double-blind reviewed by the Program Committee on the basis of technical quality, relevance to the topic, originality, significance and clarity. Author names and affiliations must not appear in the submissions.
- Each submission should be regarded as an undertaking that, if the paper is accepted, at least one of the authors must register and attend the conference to present the work. No-show papers will not be included in the proceedings.
- Accepted papers will be included in the IEEE ICDM 2016 Workshops Proceedings volume published by IEEE Computer Society Press, and will also be included in the IEEE Xplore Digital Library. The workshop proceedings will be in a CD separated from the CD of the main conference. The CD is produced by IEEE Conference Publishing Services (CPS).

## Important Dates:

- **Paper Submission: August 12, 2016, 23:59 EST**
- Notification: September 13, 2016
- Camera ready: September 20, 2016
- Workshop: December 12, 2016

## **Topics of interest:**

We encourage submissions on all theoretical and practical aspects, as well as experimental studies of deployed systems. Topics of interest to the workshop include, but are not limited to, the following subject categories:

- Science of Success
- Big Data sources for performance and success
- mathematical models of success, performance and their interplay
- ranking algorithms for performance and success
- patterns of success in the scientific enterprise
- dynamics of popularity in social media (hashtags, viral videos, etc.)
- definition and analysis of success in social networks
- measures of performance and success in sports
- data mining for sports analytics
- anomaly, doping and fraud detection in sports performance
- patterns of success in visual arts, music and writing
- adoption, diffusion and success of innovations, products and technologies
- novel approaches for detecting innovators and influencers
- performance sensing and analysis
- design of predictive models for performance and success
- opinion mining and sentiment analysis to quantify success in social media
- career success and longevity in different professions
- analysis of collective success, well-being, and development
- role of networks in success

## **Contact information:**

For questions, please do not hesitate to contact the workshop organizers by email:

- Luca Pappalardo: [lpappalardo@di.unipi.it](mailto:lpappalardo@di.unipi.it)
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