



<i>Project Acronym</i>	<i>SoBigData</i>
<i>Project Title</i>	<i>SoBigData Research Infrastructure Social Mining & Big Data Ecosystem</i>
<i>Project Number</i>	<i>654024</i>
<i>Deliverable Title</i>	<i>Periodic dissemination and impact report and plan for following year 2</i>
<i>Deliverable No.</i>	<i>D3.5</i>
<i>Delivery Date</i>	<i>October 2018</i>
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DOCUMENT INFORMATION

PROJECT	
Project Acronym	SoBigData
Project Title	SoBigData Research Infrastructure Social Mining & Big Data Ecosystem
Project Start	1st September 2015
Project Duration	48 months
Funding	H2020-INFRAIA-2014-2015
Grant Agreement No.	654024
DOCUMENT	
Deliverable No.	D3.5
Deliverable Title	Periodic dissemination and impact report and plan for following year 2
Contractual Delivery Date	30 September 2018
Actual Delivery Date	05 October 2018
Author(s)	Beatrice Rapisarda (CNR), Vittorio Romano (CNR)
Editor(s)	Beatrice Rapisarda (CNR)
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Work Package No.	WP3
Work Package Title	NA2_Dissemination, Impact, and Sustainability
Work Package Leader	USFD
Work Package Participants	CNR, USFD, UNIPI, FRH, IMT, LUH, KCL, SNS, LUH, AALTO, ETHZ, TUDelft
Dissemination	PU
Nature	Report
Version / Revision	V1.2
Draft / Final	Final
Total No. Pages (including cover)	66
Keywords	Dissemination, scientific publications, impact activities

DISCLAIMER

SoBigData (654024) is a Research and Innovation Action (RIA) funded by the European Commission under the Horizon 2020 research and innovation programme.

SoBigData proposes to create the Social Mining & Big Data Ecosystem: a research infrastructure (RI) providing an integrated ecosystem for ethic-sensitive scientific discoveries and advanced applications of social data mining on the various dimensions of social life, as recorded by “big data”. Building on several established national infrastructures, SoBigData will open up new research avenues in multiple research fields, including mathematics, ICT, and human, social and economic sciences, by enabling easy comparison, re-use and integration of state-of-the-art big social data, methods, and services, into new research.

This document contains information on SoBigData core activities, findings and outcomes and it may also contain contributions from distinguished experts who contribute as SoBigData Board members. Any reference to content in this document should clearly indicate the authors, source, organisation and publication date.

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GLOSSARY

ABBREVIATION	DEFINITION
VRE	Virtual Research Environment
SME	Small and Medium Enterprise
NDA	Non Disclosure Agreement

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DELIVERABLE SUMMARY

This deliverable reports the description of dissemination, impact activities undertaken and scientific papers published. Furthermore, it shows all the dissemination material. In particular:

- Section 2: reports the dissemination activities set-up inside SoBigData project.
- Section 3: shows the results obtained in terms of number of publications, number of users and so on.
- Finally, the appendixes provide to the reader a useful overview about the material and the dissemination experience inside SoBigData Research Infrastructure.

EXECUTIVE SUMMARY

This second periodic report includes the description of dissemination and impact activities undertaken and scientific papers published, as well as the planning for the next period. Furthermore, It describes the efforts to be made to reach as wide an audience as possible, and the multiple strategies employed by the consortium. This deliverable covers a time period starting from March 2017 (M19) to August 2018 (M36).

1 RELEVANCE TO SOBIGDATA

One of the aims of the SoBigData project is to ensure the widest possible dissemination and use of the project results, as well as establishing collaborations with other relevant projects and initiatives and establishing and widening the SoBigData community. This makes dissemination and impact activities of vital importance to overall project success.

1.1 PURPOSE OF THIS DOCUMENT

The purpose of this document is to provide the consortium with an overview of the dissemination and impact plan up to M36. The objectives can be summarized as follows:

- Communication of project results to the general public, scientific communities, and potential adopters through various dissemination channels.
- Dissemination of the project results to the partners' research and business associates, clients and public through media and existing and future contacts.
- Identification of user communities for potential academic and commercial impact.
- Establishment of the appropriate metrics and indicators in order to assess the success of the dissemination and impact of the project results.

This deliverable contains the dissemination plan, the dissemination and communication channels, the communication material, the dissemination activities and indicators and the impact planning.

These comprise the restyling of the website for promoting and communicating the project and relevant activities and achievements, the restyling of the graphic layout of the Gateway, the main activities, among which the Tuscan Big Data Challenge, the Master in Big Data Analytics & Social Mining and the Data Science Ph.D.

The document is categorised into four different sections:

- *Section 1* gives a brief introduction, outlines the major purpose of the document and explains the relevance to SoBigData.
- *Section 2* of the document addresses the dissemination plan of the SoBigData project. It gives an overview of dissemination details, the dissemination channels and the dissemination materials and provides insight into completed and future dissemination activities. The last part of section 2 addresses project indicators, which are used to measure the progress of the dissemination activities.
- *Section 3* outlines the impact plan.
- *Section 4* concludes with consolidated findings so far.
- Finally, *Appendix A* contains images of dissemination materials (flyer, leaflet, newsletter);

1.2 RELEVANCE TO PROJECT OBJECTIVES

Dissemination of the project results and impact generation are key activities to reach the project objectives. The focus of SoBigData is on development of a research infrastructure (RI) providing an integrated ecosystem for ethic-sensitive scientific discoveries and advanced applications of social data mining on the various dimensions of social life, as recorded by “big data”. The research methods are of especial relevance to academia, but also open interesting impact opportunities aimed at diverse stakeholders. Therefore, a careful planning of the actions to be taken both for dissemination and impact generation is of the highest importance.

1.3 RELATION TO OTHER WORKPACKAGES

Dissemination and impact generation activities are horizontal activities that last for the entire duration of the project. Therefore, there is a clear interaction with all work packages.

It is worth mentioning that the relation of dissemination and impact generation with other work packages is planned as a two-way interaction. On the one hand, all work packages provide feedback, both for dissemination (partners from the networking and joint research activities work packages will provide ideas, presentations, papers, news, etc.) and impact on stakeholders (potential results of each JRA work package, licensing approaches, etc.).

On the other hand, WP3 aims to provide feedback to the rest of the work packages in order to influence their work at multiple levels: watching what is going on in the scientific and commercial spheres, to drive work in the right and timely direction, suggesting changes on the licensing of different components to ensure the complementarity of the results, offering ideas on how small enhancements could be better perceived by the stakeholders, etc.

2 DISSEMINATION PLAN

2.1 DISSEMINATION PLAN SPECIFICATION

SoBigData has adopted a multi-channel, multi-target dissemination approach. Since SoBigData is a research infrastructure, the main dissemination targets are social data scientists, which currently span multiple research communities (data mining and pattern discovery, text and social media mining, mobility analytics, social network analysis, visual analytics, etc.). Furthermore, SoBigData is also complement these channels with innovation actions and events aimed at companies in our target verticals (especially SMEs), government organisations, and policy makers. Since the project will produce a new research infrastructure, as well as new open-source tools and services, training and cross-disciplinary community building is also a target.

The SoBigData website has been redesigned in collaboration with WP7 and WP10 and it is constantly updated. For further details see Section 2.2.2. Furthermore, SoBigData actively promotes the research infrastructure and its services to the large big data research community through his social media channels.

In this context, we recall that within the limitations imposed by appropriate protection of intellectual property, all scientific results of this project will be made available to the research community. In addition, a number of big social data analytics tools and resources from SoBigData will be made available as open-source to facilitate take-up.

2.2 DISSEMINATION COMMUNICATION CHANNELS (SOCIAL, PRESS, WEB)

The project has a strong social media presence based on:

- a Twitter account: [Twitter.com/SoBigData](https://twitter.com/SoBigData)
- a Facebook page: www.facebook.com/SoBigData
- a LinkedIn profile: <https://www.linkedin.com/groups/5093052/profile>.
- A YouTube channel: <https://www.youtube.com/channel/UCRMtvc9ovcISG4EymRuczHQ>

All the partners ensure that the project has active social media engagement.

The LinkedIn profile is used mainly to promote calls, job opportunities and other types of collaborations within the project.

The Blog page, located on the web site, is constantly updated with new articles on the most relevant news of the project, such as events, talks, new publications, software releases, press releases. The same news are published in a suitable way on the social media channels. The blog page as well as the social media channels are also used to actively promote new TNA calls and local calls like the Italian Tuscan Big Data Challenge.

The Event page, located on the web site, is constantly updated with upcoming events relevant to the project. In particular, there are events organized by SoBigData, like, for instance, summers school, datathons, etc; events were SoBigData participate with a talk, a tutorial, etc.; finally, events of interest to the SoBigData community, thus promoted in the web site, even if they do not see a direct involvement of the SoBigData scientists.

SoBigData is promoted also through strong press coverage with articles and interviews talking about our research infrastructure in online newspaper as well as video and radio. The press coverage helps also to promote events organized by or related to the project. See Table 5 for a detailed list of press coverage.

2.2.1 NEWSLETTER

The project has now designed and published a traditional newsletter, to reach the vast community of SoBigData.

The newsletter is designed and built with a desktop publishing software and published on the social media channels and website of the project as a pdf format. The newsletter is also disseminated through specific mailing lists. A page on the project website has been dedicated to subscribe/unsubscribe to the newsletter, to make registration management faster and more effective (see <http://www.sobigdata.eu/newsletter>).

The WP created an Editorial Board composed by Fosca Giannotti, Kalina Bontcheva, Roberto Trasarti, Beatrice Rapisarda and an Editorial Secretariat composed by Beatrice Rapisarda and Vittorio Romano to manage the contents and the publication of the newsletter. The newsletter is published every 6 months and contains a summary of the latest news about the project, as well as the latest and most interesting publications of project partners.

The SoBigData Newsletter mailing list has been subscribed by 53 people/institutions and the first issue of the newsletter has been downloaded 81 times. Printed versions of the first issue have been distributed in several events.

For details see APPENDIX A FLYER, LEAFLET & NEWSLETTER.

2.2.2 PROJECT WEB SITE'S RESTYLING

The official SoBigData web site (<http://www.sobigdata.eu>) has been totally redesigned since the last release presented in deliverable D3.4 – “Periodic dissemination and impact report and plan for following year 2”, after an internal evaluation report that highlighted several usability issues and led to substantial improvements in the user interface of the SoBigData website as well as in the SoBigData gateway. Figure 1 shows the new home page of the site.



Figure 1. www.sobigdata.eu home page.

With respect to the old version, the user experience in the project portal has been improved and the layout is now very clear and effective. The new version of the homepage shows an overview of the website's content, thus the user can immediately see the topic of the project and what he can find on the website as well as in the research infrastructure. It is now possible to choose between three paths: explore, discover, participate. Going through the first path, the user explores the Exploratories. Every Exploratory has a full description and a link to go to the resources in the Catalogue. It is now clear how to arrive to the e-infra and the Catalogue, by clicking on the path "Discover". A new section, the third path "Participate", allows users to become Associate Members of the SoBigData Research Infrastructure.

The page "associate members" is designed to enlarge the project community giving a great opportunity to public governments, companies, international organizations, academic institutions, and the official statistics and data communities. The associate members of SoBigData will be involved more closely and officially to the SoBigData activities.

Further content on the home page is the "blog and news" section, with an overview of latest news and the "events and calls" section with an overview of the latest events and calls.

The bottom part of the page gives the user an overview of the SoBigData consortium, with a map of Europe with the distribution of the partners and the logo of each partner.

The main menu has been also redesigned and simplified in order to be more effective. More details about the review process and the innovations is reported in the deliverable D7.2

2.2.3 SOBIGDATA GATEWAY RESTYLING

As well as the Website, also the SoBigData gateway has been totally redesigned in order to improve the user experience. The "news feed" section, that before was the first thing encountered by the user, is now been moved to a secondary page. The organization of the page allows now to have an immediate vision of the research environment and its contents. Now methods and datasets and in general the content of the e-

infrastructure are accessible immediately, by visualizing the complete list or by searching for a specific keyword. A filter has been added to shows which resources are available online or on-site. Indications on how to integrate a method or a dataset have been added. Furthermore, a common project's terminology has been adopted in order to enable more uniformity among the project's requirements and technologies. Figure 2 shows the new gateway home page (see D.7.2 for more details).

Welcome to the e-infrastructure. Take a look to some analytical results in the exploratories. Find all the SoBigData community resources in the catalogue. Use the applications in your analytical process.

Exploratories

- City of Citizens**
This exploratory tells stories about cities and people living in it. Data scientists describe those territories by means of data, statistics and models. This allows citizens and local ...
Read More »
- Societal Debates**
By analysing discussions on social media and newspaper articles, in this exploratory we study public debates to understand which are the most discussed topics. We can identify themes, follo ...
Read More »
- Sports Data Science**
This exploratory tells stories about sports analytics. Sports data scientists describe performances by means of data, statistics and models. This allows coaches, fans and practitioners to ...
Read More »
- Well-being & Economy**
This exploratory uses data of purchases in supermarkets and investigates the changes in people's behavior after the economic crisis. This study allows to work out an early indicator of dis ...
Read More »

Invite Members

e-mail address

Send invite

Catalogue

Insert keywords here

157 items 1 organisation 5 groups 3 types

Applications

- TagME**
TAGME is a powerful tool that is able to identify on-the-fly meaningful short-phrases (called "spots") in an unstructured text and link them to a pertinent Wikipedia page in a fast and effe ...
Read More »
- M-ATLAS**
M-Atlas is a mobility querying and data mining system centered onto the concept of spatio-temporal data. Besides the mechanisms for storing and querying trajectory data, M-Atlas has mechani ...
Read More »
- SMAPH**
SMAPH does entity linking on web queries and very short text, meaning it disambiguates query terms linking them to their unambiguous meaning represented as an entity in a Knowledge base. To ...
Read More »

Upload your Method / Dataset

Submit your Idea

Notifications

Notification Settings

Thu, 03 May

10:41 PM

Manisha Yara posted on SMAPH: #Error Why am I getting 'HTTP Status 500 - Cannot call sendError()' for the past hours while seeking maph response from a python code? I have added required headers and checked w... See this Post.

Wed, 02 May

8:52 AM

Paolo Manghi posted on SoBigData.eu: [apologies for cross-posting] Dear Colleagues, This may be of interest to you. Best, Paolo ===== First Call for Papers ===== 1st International Workshop on Refram ... See this Post.

Wed, 11 April

5:12 PM

Tarcisio Souza Costa posted on TagMe: Dear TagMe Users, I was using

Figure 2. Gateway home page.

2.3 DISSEMINATION MATERIAL

A restyling of the corporate material has been done in the last year, in order to have the printable material always up to date and at the same time to make it more interesting with a touch of novelty.

The project flyer has been restyled and updated as well as the leaflet and the poster.

Furthermore a promotional video of the project has been designed and realized by Beatrice Rapisarda and Viola Bachini who interviewed some of the most representative people of the project. The video is available in the Youtube channel at the address <https://youtu.be/Z1wbERvIQa4>

The new flyer, leaflet and poster are available in Appendix A. FLYER, LEAFLET POSTER & NEWSLETTER

2.4 DISSEMINATION ACTIVITIES AND INDICATORS

2.4.1 PRESENCE IN CONFERENCES

SoBigData is actively planning dissemination activities such as presence in conferences, workshops, and contacts with other projects, contacts with potential customers, etc. To that extent partners regularly communicate the dissemination opportunities and report on the different activities carried out using the tables (available for the project partners in Google Drive) reproduced below including the next upcoming

dissemination opportunities related to the project. Upcoming conferences/events related to the SoBigData project.

Date	Event	Place	Description
10-14/09/2018	ECML - PKDD 2018	Dublin, Ireland	European Conference on KDD and Machine learning. It is now in its 20th edition and it is aimed at merging the two communities. In this edition is organized the 2nd International workshop on Personal Analytics and Privacy (Riccardo Guidotti). Are presented two papers at PAP (Michela Natilli and Roberto Pellungrini). Anna Monreale is invited speaker at PAP. Riccardo Guidotti is presenting a paper at the ADS.
23-28/09/2018	CCS18	Thessaloniki, Greece	This Conference is in line with the series of meetings previously held in Cancun, Mexico(2017), Amsterdam, Netherlands(2016), Tempe, Arizona,USA(2015), Lucca, Italy(2014), and more meetings in previous years. All these past meetings have delivered the highest quality of presentations, the most up-to-date findings, have been attended by the pioneers in the field of Complex Systems, as well by young aspiring students, numbering an attendance of close to one thousand.
25-28/09/2018	Social Informatics 2018	St Petersburg, Russia	Conference on the interplay between socially-centric platforms and social phenomena.
21-26/10/2018	IEEE VIS 2018	Berlin, DE	IEEE VIS
01-04/10/2018	IEEE DSAA 2018 The 5th IEEE International Conference on Data Science and Advanced Analytics	Turin	(DSAA) started in 2014 aiming to be a flagship in the data science and analytics field. Fosca Giannotti is the general chair. It has been proposed and accepted a special session on Societal Debate
31/10-4/11/2018	EMNLP 2018	Brussels	Conference on Empirical Methods in Natural Language Processing
17-20/11/2018	IEEE ICDM 2018	Singapore	The IEEE International Conference on Data Mining series (ICDM) has established itself as the world's premier research conference in data mining.
11-13/12/2018	Complex Networks 2018	Cambridge, UK	The International Conference on Complex Networks and their Applications aims at bringing together researchers from different scientific communities working on areas related to complex networks.
2019	RumourEval 2019	TBA	As part of Semeval 2019, Sheffield, in conjunction with other partners, are organizing a shared task in rumour verification.
03-07/06/2019	EuroVis 2019	Porto, Portugal	EuroVis is the annual Visualization Conference organized by the Eurographics Working Group on Data Visualization and supported by the IEEE Visualization and Graphics Technical Committee (IEEE VGTC)
11-14/06/2019	ICWSM 2019	Munich, Germany	THE 13TH INTERNATIONAL AAAI CONFERENCE ON WEB AND SOCIAL MEDIA
07/2019	Lipari Summer School 2019	Sicily, Italy	This summer school will provide opportunities to collect experience with modern data analysis, in particular, Big Data analytics. This includes subjects to mine data on the Internet of Things. Our main and special guest speakers, who are recognized authorities in this field, will address such a scope focusing on algorithms, computational models and practical results.

03-07/08/2019	SIGKDD 2019	Anchorage, Alaska	25TH ACM SIGKDD CONFERENCE ON KNOWLEDGE DISCOVERY AND DATA MINING
27-30/08/2019	ASONAM	Vancouver, Canada	The 2019 IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining
16-20/09/2019	ECML - PKDD 2019	Würzburg, Germany	The European Conference on Machine Learning and Principles and Practice of Knowledge Discovery in Databases
01-04/10/2019	DSAA 2018	Turin, Italy	5th IEEE International Conference on Data Science and Advanced Analytics. Riccardo Guidotti is presenting a paper.

Table 1. Upcoming conferences/events related to the SoBigData project.

2.4.2 PLANNING SOBIGDATA EVENTS FOR THIRD PERIOD (YEAR 4)

For the third period the SoBigData consortium has already planned a set of events. These activities are related to dissemination events just like the ones proposed into the first and second periods. At the moment, the consortium has planned the following events for the third period in line on what expected from the ones originally scheduled in the DoW:

- Soccer data challenge - October 2018
- International Workshop on Rumours and Deception in Social Media (RDSM 2018) – October 2018
- RumourEval (online competition) - Opens in 2019
- Master SoBigData 2019 - January 2019
- Ethical Social Mining and Explainability in AI (ESME Workshop) - May/June 2019
- Final conference - June 2019
- GATE Summer school - June 2019
- Summer School on Fake News – July 2019
- High-school training event in Sheffield - Jul/Aug 2019

2.4.3 ACTIVITIES CARRIED OUT

The following tables include all academic papers and/or events with a SoBigData related presence and a list of events organized by SoBigData.

Publications:

Date	Event	Type	Title	Authors
2017				
2017	JMIR Research Protocols	Journal Article	Data Collection for Mental Health Studies Through Digital Platforms: Requirements and Design of a Prototype	Aledavood, T., Hoyos, A. M. T., Alakörkkö, T., Kaski, K., Saramäki, J., Isometsä, E., & Darst, R. K
2017	Accepted in Journal of Informetric, available in arxiv	Journal Article	Stochastic Block Model Reveals the Map of Citation Patterns and Their Evolution in Time	Hric, D., Kaski, K., & Kivelä, M

2017	11TH INTERNATIONAL AAAI CONFERENCE ON WEB AND SOCIAL MEDIA	Conference paper	A motif-based approach for identifying controversy	Coletto, M., Garimella, K., Gionis, A., and Lucchese, C.
2017	GOODTECHS 2017	Conference paper	Privacy Preserving Multidimensional Profiling	Francesca Pratesi 12, Anna Monreale 2, Fosca Giannotti 1, and Dino Pedreschi 2; 1 ISTI-CNR; 2 University of Pisa
2017	ACM Intelligent Systems and Technology, Special Issue on Urban Intelligence (TIST 9:3)	Journal article	A data mining approach to assess privacy risk in human mobility data	Roberto Pellungrini 1, Luca Pappalardo 1, Francesca Pratesi 1 2, and Anna Monreale 1 2; 1 University of Pisa; 2 ISTI-CNR
2017	Journal of Geovisualization and Spatial Analysis	Journal article	An Interactive Approach for Exploration of Flows through Direction-Based Filtering	Katerina Vrotsou, Georg Fuchs, Natalia Andrienko, and Gennady Andrienko
2017	International Workshop on Complex Networks and their Applications 2017	Conference	Modeling Peer and External Influence in Online Social Networks: Case of 2013 Referendum in Croatia	M Piškorec, N Antulov-Fantulin, I Miholić, T Šmuc, M Šikić
2017	Online Social Networks and Media	Journal article	Online Social Networks and information diffusion: The role of ego networks	Valerio Arnaboldi, Marco Conti, Andrea Passarella, Robin I. M. Dunbar
2017	Journal of Computer-Mediated Communication	Journal article	Structure of Ego-Alter Relationships of Politicians in Twitter	V Arnaboldi, A Passarella, M Conti, R Dunbar
2017	Pervasive and Mobile Computing	Journal article	A communication efficient distributed learning framework for smart environments	Lorenzo Valerio, Andrea Passarella, Marco Conti
2017	WoWMoM 2017	Conference paper	Optimal trade-off between accuracy and network cost of distributed learning in Mobile Edge Computing: An analytical approach.	L. Valerio, A. Passarella and M. Conti.
2017	PAP@ECML PKDD 2017	Workshop paper	Assessing privacy risk in retail data.	Roberto Pellungrini, Francesca Pratesi, and Luca Pappalardo.
2017	TELERISE @SAFECOMP 2017	Workshop paper	Fast estimation of privacy risk in human mobility data.	Roberto Pellungrini, Luca Pappalardo, Francesca Pratesi, and Anna Monreale.
2017	International Conference on Social Informatics	Conference paper	Stance Classification in Out-of-Domain Rumours: A Case Study	Ahmet Aker, Arkaitz Zubiaga, Kalina

			Around Mental Health Disorders	Bontcheva, Anna Kolliakou, Rob Procter, Maria Liakata
2017	Web Semantics: Science, Services and Agents on the World Wide Web	Journal article	A framework for real-time semantic social media analysis	Diana Maynard, Ian Roberts, Mark A. Greenwood, Dominic Rout, Kalina Bontcheva
2016	Physics of life reviews	Journal article/comment	Cities' influence on spatial epidemics: Comment on " Pattern transitions in spatial epidemics: Mechanisms and emergent properties" by Gui-Quan Sun et al.	Boris Podobnik, Tomislav Lipic, Iva Bojic, Nino Antulov- Fantulin
2017	International ACM Web Science Conference (WebScience)	Conference article	Factors in recommending contrarian content on social media	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis
2017	International ACM Web Science Conference (WebScience)	Conference article	The effect of collective attention on controversial debates on social media	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis
2017	International ACM Web Science Conference (WebScience)	Conference article	Where could we go? Recommendations for groups in location-based social networks	Frederick Ayala- Gómez, Bálint Daróczy, Michael Mathioudakis, András Benczúr, Aristides Gionis
2017	ACM Transactions on Knowledge Discovery from Data (TKDD)	Journal article	Finding dynamic dense subgraphs	Polina Rozenshtein, Nikolaj Tatti, Aristides Gionis
2017	Data Mining and Knowledge Discovery (DMKD)	Journal article	Lagrangian relaxations for multiple network alignment	Eric Malmi, Sanjay Chawla, Aristides Gionis
2017	Data Mining and Knowledge Discovery (DMKD)	Journal article	Discovering recurring activity in temporal networks	Orestis Kostakis, Nikolaj Tatti, Aristides Gionis
2017	IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM)	Conference article	Finding topical experts in Twitter via query-dependent personalized PageRank	Preethi Lahoti, Gianmarco De Francisci Morales, Aristides Gionis
2017	ACM Conference on Knowledge Discovery and Data Mining (KDD)	Conference article	Inferring the strength of social ties: a community-driven approach	Polina Rozenshtein, Nikolaj Tatti, Aristides Gionis
2017	European Conference on Machine Learning and	Conference article	The network-untangling problem: From interactions to	Polina Rozenshtein, Nikolaj Tatti,

	Principles and Practice of Knowledge Discovery (ECML PKDD)		activity timelines	Aristides Gionis
2017	ACM International Conference on Information and Knowledge Management (CIKM)	Conference article	Fully dynamic algorithm for top-k densest subgraphs	Anis Nasir, Aristides Gionis, Gianmarco De Francisci Morales, Sarunas Girdzijauskas
2017	ACM International Conference on Information and Knowledge Management (CIKM)	Conference article	Active network alignment: A matching-based approach	Eric Malmi, Aristides Gionis, Evimaria Terzi
2017	31st Annual Conference on Neural Information Processing Systems (NIPS)	Conference article	Balancing information exposure in social networks	Kiran Garimella, Aristides Gionis, Nikos Parotsidis, Nikolaj Tatti
2017	Cornell University	Journal article	Human Perception of Performance	L. Pappalardo, P. Cintia, D. Pedreschi, F. Giannotti, A.-L. Barabasi
2017	Advances in Complex Systems	Journal article	Quantifying the relation between performance and success in soccer	L. Pappalardo, P. Cintia
2017	Proceedings of the Machine Learning and Data Mining for Sports Analytics workshop (MLSA'17) ECML/PKDD 2017, Skopje, Macedonia	Workshop paper	Who is going to get hurt? Predicting injuries in professional soccer	A. Rossi, L. Pappalardo, P. Cintia, J. Fernandez, M. F. Iai, D. Medina
2017	Pervasive and Mobile Computing	Journal Article	The Internet of People (IoP): A new wave in pervasive mobile computing	Marco Conti, Andrea Passarella, Sajal K. Das
2017	First International Workshop, PAP 2017, Series Volume 10708, 2017, Springer.	Conference paper	Personal Analytics and Privacy. An Individual and Collective Perspective	R. Guidotti, A. Monreale, D. Pedreschi, S. Abiteboul
2017	Proceedings of the IEEE International Conference on Data Mining (ICDM)	Conference paper	Market Basket Prediction using User-Centric Temporal Annotated Recurring Sequences	R. Guidotti, G. Rossetti, L. Pappalardo, D. Pedreschi, F. Giannotti
2017	GOODTECHS 2017	Conference paper	On the Equivalence Between Community Discovery and Clustering	R. Guidotti, M. Coscia
2017	GOODTECHS 2017	Conference paper	Recognizing Residents and Tourists with Retail Data Using Shopping Profiles	R. Guidotti, L. Gabrielli
2017	GOODTECHS 2018	Conference paper	The Fractal Dimension of Music: Geography, Popularity and Sentiment Analysis	L. Pollacci, R. Guidotti, G. Rossetti, D. Pedreschi, F. Giannotti
2017	Proceedings of 2017 IEEE	Conference paper	There's A Path For Everyone: A	R. Guidotti, R.

	International Conference on Data Science and Advanced Analytics (DSAA)		Data-Driven Personal Model Reproducing Mobility Agendas	Trasarti, M. Nanni, D. Pedreschi, F. Giannotti
2017	Proceedings of the 23rd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining	Conference paper	Clustering Individual Transactional Data for Masses of Users	R. Guidotti, A. Monreale, M. Nanni, D. Pedreschi, F. Giannotti
2017	Eleventh International AAAI Conference on Web and Social Media	Workshop paper	News Media Coverage of Refugees in 2016: A GDELT Case Study	E. Boudemagh, I. Moise
2017	IEEE Computer Society Signature Conference on Computers, Software and Applications (COMPSAC)	Workshop paper	Early Signals of Trending Rumor Event in Streaming Social Media	S. Wang, I. Moise, D. Helbing and T. Terano
2017	31st IEEE International Conference on Advanced Information Networking and Application	Conference article	Sensing and Mining Urban Qualities in Smart Cities	D. Griego, V. Buff, E. Hayoz, I. Moise, E. Pournaras
2017	Complex networks 2017	Conference paper	Modeling Peer and External Influence in Online Social Networks: Case of 2013 Referendum in Croatia	Piškorec, M., Antulov-Fantulin, N., Miholić, I., Šikić, M.
2017	Springer	Book chapter	The principle of purpose limitation and big data	Nikolaus Forgó, Stefanie Hännold, Benjamin Schütze
2017	Recsys 2017	Conference paper (poster)	Recommender Systems for Banking and Financial Services	Andrea Gigli and Fabrizio Lillo and Daniele Regoli
2017	https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3075019	Journal Article	Corporate payments networks and credit risk rating	Elisa Letizia and Fabrizio Lillo
2017	PhD thesis. Department of Computer Science, University of Pisa	PHD Thesis	Segregation aware data mining	A. Baroni
2017	International Workshop on Machine Learning, Optimization, and Big Data, Springer	Conference paper	Data-driven job dispatching in HPC systems	Cristian Galleguillos, Alina Sîrbu, Zeynep Kiziltan, Ozalp Babaoglu, Andrea Borghesi, and Thomas Bridi
2017	ACM CIKM	Conference Paper	Two-stage framework for computing entity relatedness in Wikipedia	Marco Ponza, Paolo Ferragina, Soumen Chakrabarti
2017	NLDB	Conference Paper	22nd International Conference on Natural Language & Information Systems	Marco Ponza, Paolo Ferragina, Francesco Piccinno
2017	Il Mulino	Book	Il Pensiero Computazionale: dagli Algoritmi al Coding	Paolo Ferragina, Fabrizio Luccio
2017	Springer	Book	Personal Analytics and Privacy. An Individual and Collective Perspective	Riccardo Guidotti, Anna Monreale, Dino

				Pedreschi, Serge Abiteboul
2017	IEEE International Conference on DSAA, 2017, Tokyo, Japan	Conference paper	NDlib: Studying Network Diffusion Dynamics	G. Rossetti, L. Milli, S. Rinzivillo, A. Sirbu, D. Pedreschi, F. Giannotti
2017	Conference of the Italian Association for Artificial Intelligence	Conference paper	Sentiment Spreading: An Epidemic Model for Lexicon-Based Sentiment Analysis on Twitter	Laura Pollacci, Alina Sîrbu, Fosca Giannotti, Dino Pedreschi, Claudio Lucchese, and Cristina Ioana Muntean
2017	IEEE Transactions on Dependable and Secure Computing	Journal Article	Authenticated Outlier Mining for Outsourced Databases	Boxiang Dong, Hui Wendy Wang, Anna Monreale, Dino Pedreschi, Fosca Giannotti, Wenge Guo
2017	Plos One		Forecasting Success via Early Adoptions Analysis: A Data-Driven Study	G. Rossetti, L. Milli, D. Pedreschi, F. Giannotti
2017	Journal of Online Social Networks and Media		Node-Centric Community Discovery: from Static to Dynamic Social Network Analysis	G. Rossetti, D. Pedreschi, F. Giannotti
2017	Journal of Complex Networks		RDYN: Graph Benchmark handling Community Dynamics	G. Rossetti
2017	Conundrum International Conference on Complex Networks and Their Applications, 2017. Lyon, France.		Information Diffusion in Complex Networks: the Active/Passive	L. Milli, G. Rossetti, F. Giannotti, D. Pedreschi
2017	ACM SIGIR 2017	Conference paper (Demo)	RankEval: An Evaluation and Analysis Framework for Learning-to-Rank Solutions	Claudio Lucchese, Cristina Ioana Muntean, Franco Maria Nardini, Raffaele Perego, and Salvatore Trani
2017	ACM SIGIR 2017	Conference paper (Demo)	Social Media Image Recognition for Food Trend Analysis	Giuseppe Amato, Paolo Bolettieri, Vinicius Monteiro de Lira, Cristina Ioana Muntean, Raffaele Perego, and Chiara Renso
2017	Online Social Networks and Media (OSNEM)	Journal Article	Perception of social phenomena through the multidimensional analysis of online social networks	Mauro Coletto, Andrea Esuli, Claudio Lucchese, Cristina Ioana Muntean, Franco Maria Nardini, Raffaele Perego,

				Chiara Renso
2017	International Conference on Computer Safety, Reliability, and Security	Conference paper	Fast Estimation of Privacy Risk in Human Mobility Data	Roberto Pellungrini, Luca Pappalardo, Francesca Pratesi, Anna Monreale
2018				
2018	Submitted to in Advances in Physics: X, available in arxiv	Journal Article	Social Physics: Uncovering Human Behaviour from Communication	Bhattacharya, K. and Kaski, K.
2018	Submitted to Journal of the Royal Society Interface, available in arxiv	Journal Article	Role of risk and information in a group formation experiment on a small-world network	Bhattacharya, K., Takko, T., Monsivais, D., & Kaski, K.
2018	Submitted to Scientometrics	Journal Article	Going below the shoulders of giants: tracking the cumulative knowledge spreading in a comprehensive citation network	della Briotta, P. , Kujala, R., Kaski, K., and Kivela, M.
2018	ACM International Conference on Web Search and Data Mining (WSDM)	Conference article	Joint non-negative matrix factorization for learning ideological leaning on twitter	Preethi Lahoti, Kiran Garimella, Aristides Gionis
2018	SIAM International Conference on Data Mining (SDM) 2018	Conference article	Reconstructing a cascade from temporal observations	Han Xiao, Polina Rozenshtein, Nikolaj Tatti, Aristides Gionis
2018	The Web Conference (WWW)	Conference article	Political discourse on social media: Echo chambers, gatekeepers, and the price of bipartisanship	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis
2018	The Web Conference (WWW)	Conference article	Computationally inferred genealogical networks uncover long-term trends in assortative mating	Eric Malmi, Aristides Gionis, Arno Solin
2018	PhD dissertation, Department of Computer Science, Aalto University	PhD dissertation	Collective entity resolution methods for network inference	Eric Malmi
2018	PhD dissertation, Department of Computer Science, Aalto University	PhD dissertation	Polarization on Social Media	Kiran Garimella
2018	ICDM	Conference Paper	Tell me something my friends do not know: Diversity maximization in social networks	Antonis Matakos, Aristides Gionis
2018	ICDM	Conference Paper	Maximizing the diversity of exposure in a social network	Cigdem Aslay, Antonis Matakos, Esther Galbrun, and Aristides Gionis
2018	ICDM	Conference Paper	Robust cascade reconstruction by Steiner-tree sampling	Hax Xiao, Cigdem Aslay, Aristides Gionis

2018	ICDM	Conference Paper	Finding events in temporal networks: Segmentation meets densest-subgraph discovery	Polina Rozenshtein, Francesco Bonchi, Aristides Gionis, Mauro Sozio, and Nikolaj Tatti
2018	ICDM	Conference Paper	Explainable time series tweaking via irreversible and reversible temporal transformations	Isak Karlsson, Jonathan Rebane, Panagiotis Papapetrou, and Aristides Gionis
2018	PhD dissertation, Department of Computer Science, Aalto University	PhD dissertation	Human behavioural patterns: A reality mining study	Daniel Monsivais (Aalto University)
2018	arXiv:1808.10166.	Journal Article	Uncovering intimate and casual relationships from mobile phone communication.	Kunal Bhattacharya, Daniel Monsivais and Kimmo Kaski (Aalto University), Mikaela Fudolig and Hang Hyun Jo (Asia Pacific Center for Theoretical Physics)
2018	Journal of Informetrics	Journal Article	Stochastic block model reveals maps of citation patterns and their evolution in time	Darko Hric, Kimmo Kaski and Mikko Kivelä (Aalto University)
2018	JMIR Research Protocols	Journal Article	Data Collection for Mental Health Studies Through Digital Platforms: Requirements and Design of a Prototype	Talayeh Aledavood, Ana Maria Triana Hoyos, Tuomas Alakörkkö, Kimmo Kaski, Jari Saramäki and Richard K Darst (Aalto University), Erkki Isometsä (University of Helsinki)
2018	Population, Space and Place	Journal Article	Migration patterns of parents, children and siblings: Evidence for patrilocality in contemporary Finland	Asim Ghosh, Kunal Bhattacharya, Daniel Monsivais, Kimmo Kaski (Aalto University), Janos Kertesz (Central European University), Venla Berg and Anna Rotkirch (Population Research Institute, Väestöliitto-Finnish Family Federation)
2018	First International Workshop on Online Social Networks and Media: Network Properties and Dynamics	Workshop paper	Twitter and the Press: an Ego-Centred Analysis.	C. Boldrini, M. Toprak, M. Conti, A. Passarella.

2018	Plos One	Journal Article	Gravity and scaling laws of city to city migration	
2018	PhD dissertation, Department of Information Engineering, University of Pisa	PhD dissertation	Harnessing the Social Sensing revolution: Challenges and Opportunities	Stefano Cresci
2018	ICWSM	Conference article	Real-World Witness Detection in Social Media via Hybrid Crowdsensing	Stefano Cresci, Andrea Cimino, Marco Avvenuti, Maurizio Tesconi, Felice Dell'Orletta
2018	ACM TIST	Journal Article	X-CLEAVER: Learning Ranking Ensembles by Growing and Pruning Trees	Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Raffaele Perego, Fabrizio Silvestri, Salvatore Trani
2018	ACM SIGIR	Conference article	Selective Gradient Boosting for Effective Learning to Rank	Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Raffaele Perego, Salvatore Trani
2018	IEEE TPDS	Journal Article	Parallel Traversal of Large Ensembles of Decision Trees	Francesco Lettich, Claudio Lucchese, Franco Maria Nardini, Salvatore Orlando, Raffaele Perego, Rossano Venturini
2018	ICWSM	Conference article	\$FAKE: Evidence of spam and bot activity in stock microblogs on Twitter	Stefano Cresci, Fabrizio Lillo, Daniele Regoli, Serena Tardelli, Maurizio Tesconi
2018	Cornell University	Journal article	Multi-dimensional and role-aware rating of soccer player performance	L. Pappalardo, P. Cintia, P. Ferragina, E. Massucco, D. Pedreschi, F. Giannotti
2018	Springer	Journal Article	Data science at SoBigData: the European research infrastructure for social mining and big data analytics	Valerio Grossi, Beatrice Rapisarda, Fosca Giannotti, Dino Pedreschi
2018	PLOS One	Article	Effective injury forecasting in soccer with GPS training data and machine learning	Alessio Rossi, Luca Pappalardo, Paolo Cintia, F. Marcello Iaia, Javier Fernández, Daniel Medina
2018	EPJ Data Science	Journal article	Discovering Temporal Regularities in Retail Customers'	R. Guidotti, L. Gabrielli, A.

			Shopping Behavior	Monreale, D. Pedreschi, F. Giannotti
2018	Complexity	Journal article	Underestimated cost of targeted attacks on complex networks	XL Ren, N Gleinig, D Tolic, N Antulov-Fantulin
2018	ICDM 2018	Conference article	Predicting short-term bitcoin price fluctuations from buy and sell orders Bitcoin Volatility Forecasting with a Glimpse into Buy and Sell Orders	Tian Guo, Albert Bifet, and Nino Antulov-Fantulin
2018	Pattern Recognition	Journal article	A nonlinear orthogonal non-negative matrix factorization approach to subspace clustering	Dijana Tolic, Nino Antulov-Fantulin, Ivica Kopriva
2018	6th International Conference on Learning Representations (ICLR)	Workshop paper	An interpretable LSTM neural network for autoregressive exogenous model	Tian Guo, Tao Lin, Yao Lu
2018	Computer Graphics Forum	Journal article	Viewing Visual Analytics as Model Building	Natalia Andrienko, Tim Lammarsch, Gennady Andrienko, Georg Fuchs, Daniel Keim, Silvia Miksch, and Alexander Rind
2018	EuroVA (best paper award)	Conference paper	Visual Exploration of Spatial and Temporal Variations of Tweet Topic Popularity	Jie Li, Siming Chen, Gennady Andrienko, Natalia Andrienko
2018	AGILE (best poster award)	Conference paper	TopicWave: Interactive Visual Analytics of Spatiotemporal Topics Distribution of People's Reactions to Events from Geo-tagged Social Media	Siming Chen, Jie Li, Gennady Andrienko, Nathalia Andrienko
2018	IEEE TVCG	Journal Article	COPE: Interactive Exploration of Co-occurrence Patterns in Spatial Time Series	Jie Li, Siming Chen, Kang Zhang, Gennady Andrienko, and Natalia Andrienko
2018	Information Visualization	Journal Article	State Transition Graphs for Semantic Analysis of Movement Behaviours	Natalia Andrienko and Gennady Andrienko
2018	Computer Graphics Forum	Journal Article	Data Abstraction for Visualizing Large Time Series	Georgiy Shurkhovetsky, Natalia Andrienko, Gennady Andrienko, and Georg Fuchs
2018	Journal of Urban technology	Journal Article	The Electric City as a Solution to Sustainable Urban Development	Iain D. Stewart, Chris A. Kennedy, Angelo Facchini & Renata Mele

2018	Scientific Reports	Journal Article	A Complex Network Approach for the Estimation of the Energy Demand of Electric Mobility	Mario Mureddu, Angelo Facchini, Antonio Scala, Guido Caldarelli, Alfonso Damiano1
2018	J. of statistical Physics	Journal article	From Ecology to Finance (and Back?): A Review on Entropy-Based Null Models for the Analysis of Bipartite Networks	Mika J. Straka, Guido Caldarelli, Tiziano Squartini, Fabio Saracco
2018	Applied Network Science	Journal Article	Entropy-based approach to missing-links prediction	F. Parisi, G. Caldarelli, Squartini T.
2018	arXiv:1805.06005v1	Journal Article	Reconstructing mesoscale network structures	Jeroen van Lidth de Jeude, Riccardo Di Clemente, Guido Caldarelli, Fabio Saracco, Tiziano Squartini
2018	arXiv:1806.06941v1	Journal Article	Reconstruction methods for networks: the case of economic and financial systems	Tiziano Squartini, Guido Caldarelli, Giulio Cimini, Andrea Gabrielli, Diego Garlaschelli
2018	arXiv:1809.03222v1	Journal Article	Colombian export capabilities: building the firms-products network	Matteo Bruno, Fabio Saracco, Tiziano Squartini, Marco Duenas
2018	SIGIR '18	Conference Paper	Selective Gradient Boosting for Effective Learning to Rank	Claudio Lucchese, Franco Maria Nardini, Raffaele Perego, Salvatore Orlando, and Salvatore Trani
2018	The Web Conference (WWW)	Conference article	User Fairness in Recommender Systems	Jurek Leonhardt, Megha Khosla, Avishek Anand
2018	Computational Management Science	Journal Article	The organization of the interbank network and how ECB unconventional measures affected the e-MID overnight market	Paolo Barucca, Fabrizio Lillo
2018	PloS One	Journal Article	Resolution of ranking hierarchies in directed networks	Elisa Letizia, Paolo Barucca, Fabrizio Lillo
2018	Quantitative Finance	Journal Article	Collective synchronization and high frequency systemic instabilities in financial markets	Lucio Maria Calcagnile, Giacomo Bormetti, Michele Treccani, Stefano Marmi, and Fabrizio Lillo,
2018	Journal of Economic Dynamics	Journal Article	Assessing Systemic Risk Due to	Domenico Di Gangi,

	and Control		Fire Sales Spillover Through Maximum Entropy Network Reconstruction	Fabrizio Lillo, Davide Pirino
2018	Journal of Financial Stability	Journal Article	Measuring the propagation of financial distress with Granger-causality tail risk networks	Fulvio Corsi, Fabrizio Lillo, and Davide Pirino, Luca Trapin
2018	https://arxiv.org/abs/1801.00185	Journal Article	A dynamic network model with persistent links and node-specific latent variables, with an application to the interbank market	Piero Mazzarisi, Paolo Barucca, Fabrizio Lillo, Daniele Tantari
2018	https://arxiv.org/abs/1804.04406	Journal Article	Cashtag piggybacking: uncovering spam and bot activity in stock microblogs on Twitter	Stefano Cresci, Fabrizio Lillo, Daniele Regoli, Serena Tardelli, Maurizio Tesconi
2018	Concurrency and Computation: Practice and Experience, 2018	Journal article	A data-driven approach to modeling power consumption for a hybrid supercomputer	Sîrbu, Alina, and Ozalp Babaoglu
2018	IEEE International Conference on Distributed Computing Systems	Conference article	Cognified Distributed Computing	O. Babaoglu (University of Bologna), Alina Sirbu (University of Pisa)
2018	ISC High Performance 2018: High Performance Computing	Conference article	Heterogeneity-Aware Resource Allocation in HPC Systems	Alessio Netti (University of Bologna), Cristian Galleguillos (University of Bologna), Zeynep Kiziltan (University of Bologna), Alina Sîrbu (University of Pisa), Ozalp Babaoglu (University of Bologna)
2018	Europar 2018 Resilience Workshop	Conference Paper	FINJ: A Fault Injection Tool for HPC Systems	Alessio Netti (University of Bologna), Cristian Galleguillos (University of Bologna), Zeynep Kiziltan (University of Bologna), Alina Sîrbu (University of Pisa), Ozalp Babaoglu (University of Bologna)
2018	Springer	Book	Computational Thinking: first algorithms, then code	Paolo Ferragina, Fabrizio Luccio
2018	Journal of Data Science and	Journal article	NDlib: a Python Library to Model	G. Rossetti, L. Milli,

	Analytics		and Analyze Diffusion Processes Over Complex Networks	S. Rinzivillo, A. Sirbu, D. Pedreschi, F. Giannotti
2018	KDD2018	Conference paper, submitted	Prediction of next career moves from scientific profiles	Charlotte James, Luca Pappalardo, Alina Sirbu, and Filippo Simini
2018	ACM CIKM	Conference paper, submitted	Meaningful Explanations of Black Box Decisions	Riccardo Guidotti, Anna Monreale, Salvatore Ruggieri, Dino Pedreschi, Franco Turini, Fosca Giannotti
2018	ACM Computing Surveys	Journal Article, submitted	A Survey Of Methods For Explaining Black Box Models	Riccardo Guidotti, Anna Monreale, Franco Turini, Dino Pedreschi, Fosca Giannotti
2018	ACM Computing Surveys (CSUR)	Journal article	Detection and Resolution of Rumours in Social Media: A Survey	Arkaitz Zubiaga, Ahmet Aker, Kalina Bontcheva, Maria Liakata, Rob Procter
2018	Journal of Technological Forecasting & Social Change.	Journal Article	What matters most to people around the world? Retrieving Better Life Index priorities on Twitter.	Giuliano Resce, Diana Maynard
2018	ICWSM	Conference article	Twits, Twats and Twaddle: Trends in Online Abuse toward UK Politicians	Gorrell, G., Greenwood, M. A., Roberts, I., Maynard, D. and Bontcheva, K.
2018	Social Informatics 2018	Conference article	Quantifying Media Influence and Partisan Attention on Twitter during the UK EU Referendum	Gorrell, G., Roberts, I., Greenwood, M. A., Bakir, M. E., Iavarone, B. and Bontcheva, K.
2018	International workshop on Mining Attributed Networks	Workshop paper	Investigating Similarity of Nodes' Attributes in Topological Based Communities	Rajesh Sharma, Danilo Montessi
2018	MSNDS 2018: THE 9TH INTERNATIONAL WORKSHOP ON MINING AND ANALYZING SOCIAL NETWORKS FOR DECISION SUPPORT	Workshop paper	Individual-level Social Capital in Weighted and Attributed Social Networks	Rajesh Sharma, Kevin McAreavey, Jun Hong and Faisal Ghaffar
2018	ICDM 2018 -- SAREC'18 workshop	Conference paper	Is Simple Better? Revisiting Non-linear Matrix Factorization for Learning Incomplete Ratings	Vaibhav Krishna, Tian Guo, and Nino Antulov-Fantulin
2018	Scientific Reports	Journal Article	Simulating SIR processes on networks using weighted shortest paths	Dijana Tolic, Kaj-Kolja Kleineberg, Nino Antulov-Fantulin

2018	arxiv preprint	Journal Article	Generalized Network Dismantling	Xiao-Long Ren, Niels Gleinig, Dirk Helbing, Nino Antulov-Fantulin
2018	9th Conference on Complex Networks, CompleNet 2018. Boston, US	Conference article	Diffusive Phenomena in Dynamic Networks: a data-driven study	L. Milli, G. Rossetti, D. Pedreschi F. Giannotti
2018	WWW '18 Companion: The 2018 Web Conference Companion, Demo paper. Forthcoming	Conference article	NDlib: a python library to model and analyze diffusion processes over complex networks	G. Rossetti, L. Milli, S. Rinzivillo
2018	Computing Surveys		Community Discovery in Dynamic Networks: a Survey	G. Rossetti, R. Cazabet
2018	9th Conference on Complex Networks, CompleNet 2018. Boston, US		Discovering Mobility Functional Areas: A Mobility Data Analysis Approach	L. Gabrielli, D. Fadda, G. Rossetti, M. Nanni, L. Piccini, P. Lattarulo, F. Giannotti, D. Pedreschi
2018	Transactions on Data Privacy	Journal Article	PRUDENCE: a System for Assessing Privacy Risk vs Utility in Data Sharing Ecosystems	Francesca Pratesi, Anna Monreale, Roberto Trasarti, Fosca Giannotti, Dino Pedreschi, Tadashi Yanagihara
2018	ACM Transactions on Intelligent Systems and Technology (TIST)	Journal Article	A Data Mining Approach to Assess Privacy Risk in Human Mobility Data	Roberto Pellungrini, Luca Pappalardo, Francesca Pratesi, Anna Monreale
2018	International Conference on Smart Objects and Technologies for Social Good	Conference Paper	Privacy Preserving Multidimensional Profiling	Francesca Pratesi, Anna Monreale, Fosca Giannotti

Table 2. Scientific publications.

In the following list there are all the events organized or co-organized by SoBigData. Training events (*) listed here are included and described in D4.2.

Date	Event Title	Type	Description	Web	Stakeholder
2017					
19/04 - 25/05/2017	*phd+ 2017	interactive lectures	The PhD+ programme, designed and fully developed by the University of Pisa, aims at fostering innovation and entrepreneurial mind-set in Master degree students, PhD students, PhDs and academics.	https://www.unipi.it/index.php/phd	Industry

15-16/06/2017	*Computational Fake News Analysis: A Practical Workshop	workshop	The aim of this workshop is, firstly, to set out the state-of-the-art and challenges in fake news analysis, followed by hands-on practical sessions on relevant computational tools, including hyperlink crawling, network analysis, and rumour analysis.	http://www.sobigdata.eu/computational-fake-news-analysis-practical-workshop	Research
26-30/06/2017	*10th GATE Training Course: Mining social media content with GATE (Sheffield Summer School)	summer school	The focus this year will be on mining social media content with GATE. The hands-on exercises will be focused on analysing tweets, blogs, and other social media content.	https://gate.ac.uk/conferences/fig/fig10.html	Research
16-22/07/2017	*Lipari Summer School on Computational Complex and Social Systems	summer school	This summer school will provide opportunities to collect experience with modern data analysis, in particular, Big Data analytics. This includes subjects to mine data on the Internet of Things.	http://www.sobigdata.eu/events/lipari-summer-school-computational-complex-and-social-systems-0	Research
19/07/2017	*Second International SoBigData workshop: City of Citizens workshop at the Lipari International Summer School for Scientific Research	workshop	The Workshop has the aim in presenting some emergent studies in mobility data analysis and complex systems in order to raise the interests in the field.	http://www.sobigdata.eu/city-citizens-workshop	Research
08/09/2017	SoBigData conference: Data Science for Society	conference		http://www.festivalinternazionaledeellarobotica.it/it/session/data-science-for-society/	Industry
18/9/2017	PAP @ECML PKDD 2017 PERSONAL ANALYTICS AND PRIVACY	PAP 2017 – 1st International Workshop of Personal Analytics and Privacy	18/9/2017	http://ecmlpkdd2017.ijs.si/	Research
18/9/2017	DyNo 2017 @ECML– 3rd International Workshop on Dynamics in			http://ecmlpkdd2017.ijs.si/	Research

	and of Networks				
18/9/2017	MIDAS @ECML – 2nd Workshop on Mining DATA for financial applications			http://ecmlpkdd2017.ijs.si/	Research
18/9/2017	KnowMe @ECML – 1st International Workshop on Knowledge Discovery from Mobility and Transportation Systems			http://ecmlpkdd2017.ijs.si/	Research
29/09/2017	SoBigData workshop: Nowcasting Well Being in Societies	workshop	The aim of the day is, therefore, to provide a careful look at new studies related to well-being and societal debates, encouraging an exchange of ideas and promoting a creative drive towards new lines of research.	http://www.sobigdata.eu/nowcasting-well-being-societies	Research
19/10/2017	Data Science in Societal Debates (DSSD 2017)	workshop	This special session focuses on data science approaches to study, model, characterize, and propose solutions to these, and other similar, challenges related to all aspects of polarized, political, and controversial societal debates.	http://www.sobigdata.eu/events/data-science-societal-debates-dssd-2017	Research
10/11/2017	*Social Impact Data Hack 2017	hackathon	This 48-hour datathon brings together people from different fields and experiences to work on the same challenges. It is an event where political science students can work side by side with programmers, journalists can work with economists, lawyers can work with designers and so on.	http://sidh2017.ut.ee/	Research
15-17/11/2017	SoBigData @ GARR Conference, Venice	conference	The talk presents the SoBigData Vision, Goal, Organization and opportunities for researchers to be users and	https://www.eventi.garr.it/it/conf17	Research

			partners of this initiative.		
18/11/2017	DAPS2017 Data mining for the analysis of performance and success			http://kdd.isti.cnr.it/daps2017	Research
27/11/2017 - 30/05/2018	Data Science Colloquia 2017/2018			http://datasciencephd.eu/events/data-science-colloquia	Research
29-30/11/2017	DAPS2017 Data mining for the analysis of performance and success			http://archive.goodtechs.eu/2017/show/DASMI-S-2017	Research
30/11/2017	SoBigData – @ JRC Workshop: Big Data and alternative data sources on migration: from case studies to policy support.	workshop	Researchers, data holders/providers, policymakers and practitioners will gather to: Review latest concrete and innovative applications of big data and alternative data sources for a better understanding of migration-related phenomena, and practical examples of use for policymakers; Identify the most promising applications of big data and alternative sources to complement and enrich traditional data on migration; Discuss possibilities, obstacles, and requirements for more systematic use of big data in the field of migration, and for increased collaboration between researchers, data providers and policymakers; Suggest pragmatic follow-up steps to expand use of such data sources in support of migration policymaking.	https://ec.europa.eu/jrc/sites/jrcsh/files/agenda_migration_data.pdf	Policy and Law Makers
13/12/2017	Big Data e Industria 4.0: un'opportunità di sviluppo per la piccola e media impresa			Evento dorganizzato all'IMT Lucca per la presentazione della Tuscan Big Data Challenge	Industry
2018					
06/02 - 08/03/2018	*phd+ 2018	interactive lectures	The PhD+ programme, designed and fully	https://www.unipi.it/index.php/phd	Industry

			developed by the University of Pisa, aims at fostering innovation and entrepreneurial mind-set in Master degree students, PhD students, PhDs and academics.		
15/02/2018	*Master In Big Data Analytics & Social Mining 2018			https://masterbigdata.it/en	
20/02/2018	SoBigData Winter Meeting			http://www.sobigdata.eu/events/sobigdata-winter-meeting	Research
24/04/2018	SoBigData @ The www 2018 - the Web Conference	conference	Presentation of the project	https://www2018.thewebconf.org/program/international-projects/	Research
24/04/2018	OSNED 2018 (co-located with The www 2018 - the Web Conference)	Online Social Networks and Media: Network Properties and Dynamics	The OSNeD workshop aims at engaging a multidisciplinary community. The workshop also welcomes submissions applying a wide range of (computer- and network-science) techniques and tools to OSNEM for investigating the properties and roles of the network of (online) social relationships in the various sectors of the society (e.g., politics, economics, finance, health, entertainment).	https://osned.netsons.org/	Research
07-11/05/2018	*Datathon IMT Complex System: Complexity 72h	datathon	An interdisciplinary event whose aim is to bring together young researchers from different fields of complex systems. Inspired by the 72h Hours of Science, participants form working groups aimed at carrying out a project in a three-day time.	https://complexity72h.weebly.com/	Research
30-31/05/2018	SoBigData @ La Sapienza, Roma			https://docs.google.com/document/d/1c77wdUS3uor9RgiVahAxdZjSGwZLXQf0QMurCI2KM1E/edit?usp=sharing	Research
04/06-09/06/2018	*ETH CryptoDatathon 2018			https://www.cryptodathon.com/	Research

11-15/06/2018	*11th GATE Training Course: Large Scale Text and Social Media Analytics with GATE			https://gate.ac.uk/conferences/fig/fig11.html	Research
15/06/2018	SoBigData @ PSE Workshop on "Big Data and Migration" Paris School of Economics			https://www.parisschoolofeconomics.eu/en/research/seminars/migration-seminar/	Research
2-5/07/2018	Advanced School on Data Science for Big Data EAIA2018 Porto			http://eaia2018.dcc.fc.up.pt/	Research
19-25/07/2018	*Lipari Summer School: From swarm intelligence to digital democracy: new tools for a complex society	workshop	This summer school provides opportunities to collect experience with modern data analysis, in particular Big Data analytics. This includes subjects to mine data in the Internet of Things. Focus on algorithms, computational models and practical results.	https://complex.lipariscchool.it/	Research
22/07/2018	*3th SoBigData workshop "Well-being & Economy workshop @ Lipari Summer School"	Workshop	A Workshop on Wellbeing thematics for the summer school students	http://www.sobigdata.eu/well-being-economy-workshop	Research
30/07/2018 - 04/08/2018	*WWSSS'18 - WSTNET Web Science Summer School 2018	Summer School	The WWSSS'18 addresses the inter-disciplinary field of Web Science by focusing on lectures which tackle the aforementioned challenges in topics such as data science and data mining, big data processing, information retrieval, Web governance as well as the sociology and psychology of online interactions.	http://wwsss18.webscience.org/	Research
28/08/2018	SAO 2018 (co-located with ASONAM 2018)	Social Network Analysis Workshop	SAO aims to provide an interdisciplinary reference forum focusing on the use of OSNEM as a "BigData microscope" to investigate the human social behavior. SAO aims at engaging	http://cnd.iit.cnr.it/sao2018/committees.html	Research

			researchers working (i) on efficient methods, tools and techniques to search for, collect and analyze large-scale datasets from OSNEM, as well as (ii) on analyzing and characterizing human social behaviors through OSNEM.		
28/08/2018	Dyno 2018 (co-located with ASONAM 2018)	Social Network Analysis Workshop	The aim of the DYNOWorkshop is to bring together researchers interested by these questions to share their latest results and discuss on the future directions to explore. Both theoretical and applicative works are welcomed.	http://dyno.sci-web.net/	Research

Table 3. Events organized or co-organized by SoBigData.

Events with a SoBigData related presence:

Date	Event	Type	Title	Authors	Web	Stakeholder
2017						
13-17/03/2017	NTTS (New Techniques and Technologies for Statistics) 2017 - EUROSTAT, Bruxelles	Invited talk	Exploring Human Mobility and Migration with Big Data, Research at Sobigdata.eu	Dino Pedreschi	https://ec.europa.eu/eurostat/cros/ntts2017programme/	Public Administration
31/03/2017	Industria 4.0: la proposta di Competence Center della Scuola Superiore Sant'Anna, Pisa	Talk	Big data, algoritmi e strumenti di analisi dei dati per ottimizzare prodotti e processi produttivi	Paolo Ferragina	https://www.santannapisa.it/sites/default/files/incontro_i4.0_31marzo2017_programma.pdf	Industry
26/04/2017	Lezioni Lincee per le Scienze Informatiche	Invited Talk	I motori di ricerca: dalle parole ai concetti	Paolo Ferragina	http://www.unipa.it/Lezioni-Lincee-in-Scienze-Informatiche-dal-Corso-di-Laurea-in-Informatica/	High Schools
15/05/2017	International Conference	Tutorial	Polarization on Social Media	Kiran Garimella, Aris Gionis,	http://icwsm.org/2017/program/tutor	Research

	on Web and Social Media (ICWSM) 2017			Gianmarco De Francisci Morales, Michael Mathioudakis	ial/	
16/05/2017	CSH Seminar Talk	Invited talk	Social Physics – Data-Driven Discovery of Human Connectome	Kimmo Kaski	https://www.csh.ac.at/event/csh-lunch-talk-kimmokaski-social-physics-data-driven-discovery-human-connectome/	Research
14-19/05/2017	International Joint Conference on Neural Networks	workshop	Workshop on Machine Learning for Large-Scale Networks	Izabela Moise, Nino Antulov-Fantulin	http://mln-2017.inn.ac/	Research
18/05/2017	EDPS Workshop On Data Driven Life @ European Parliament	workshop	Ethical smart cities	Dino Pedreschi	https://edps.europa.eu/press-publications/press-news/blog/data-driven-life-%E2%80%93-edps-workshop-ethics_en	Public Administration
18-19/05/2017	CLARIN-PLUS workshop "Creation and Use of Social Media Resources"	Invited talk	"An Open Source GATE Toolkit for Social Media Analysis"	Diana Maynard	https://www.clarin.eu/event/2017/clarin-plus-workshop-creation-and-use-social-media-resources	Research
19/05/2017	International Joint Conference on Neural Networks Workshop on Machine Learning for Large-Scale Networks	Invited talk	Quantifying Controversy in Social Media	Michael Mathioudakis	http://mln-2017.inn.ac/	Research
19/05/2017	IBA Financial Law Conference	Invited Talk and Panel Discussion	Invited Talk and Panel Discussion: What is Big Data and AI and how it is changing our lives?	Marlon Dumas	https://www.int-bar.org/Conferences/conf773/binary/Tallinn,%20Financial%202017%20programme.pdf	Industry
15-16/06/2017	Computational Fake News Analysis: A Practical Workshop	workshop	Computational Fake News Analysis: A Practical Workshop	Kalina Bontcheva	http://www.sobigdata.eu/computational-fake-news-analysis-practical-workshop	Research

30/5-3/6 2016	NetSci2016	talk	Inferring the Dynamics in Complex Networks with Percolations	Nino Antulov-Fantulin	http://netsci2016.net/index.php	Research
19-23.6.2017	NetSci2017	talk	Signatures of dynamical regimes in the temporal Bitcoin transaction networks	Nino Antulov-Fantulin	http://netsci2017.net	Research
17-22/9/2017	CSS2017	talk	Time augmented bond percolation for statistical inference in complex networks	Nino Antulov-Fantulin	http://ccs17.unam.mx	Research
11-15/6/2018	NetSci2018	talk	Generalized Network Dismantling	Nino Antulov-Fantulin	https://www.netsci2018.com	Research
19/06/2017	NetSci2017	Workshop	2nd Workshop on Statistical Physics for Financial and Economic Networks	Guido Caldarelli, Tiziano Squartini, Giulio Cimini	https://2ndworkshopstatphysicfinanceconomicnetworks.wordpress.com/	Research
21/06/2017	22nd International Conference on Natural Language & Information Systems	talk at Conference	Document aboutness via sophisticated syntactic and semantic features	Marco Ponza	http://nldb2017.conferences.hec.ulg.ac.be/	Research
26-30/06/2017	10th GATE Training Course	Tutorial	Tutorial	Kalina Bontcheva, Genevieve Gorrell	https://gate.ac.uk/conferences/fig/fig10.html	Research
27/06/2017	Second Latin-American Conference on Business Process Management	Lecture series	Business Process Mining	Marlon Dumas	https://ii-las-bpm.uniandes.edu.co/iilasbpm/	Data Analysts
05/07/2017	Roundtable KI, Deutsche Medien Agentur, Berlin	Invited talk	Invited talk	Thorsten May	http://www.deutsche-medienagentur.de/	Data Analysts
06/07/2017	Data Science - 8th Workshop Computer Science Research meets Business	workshop	City of Citizens: research infrastructure and big data challenge	Roberto Trasarti	https://www.unibz.it/en/events/124472-data-science-8th-workshop-computer-science-research-meets-business	
10/07/2017	SigmaPhi-	invited	Statistical Physics	Guido Caldarelli	http://www.sigmap	Data Analysts

	Statistical Physics 2017	speaker	for the Digital Economy		hi.polito.it/index.php?option=com_content&view=article&id=105&catid=21&Itemid=232	
13-14/07/2017	Headstart Summer School 2017	Tutorial	Controlling Lego robots with GATE Cloud and tweets	Adam Funk	https://gate4ugc.blogspot.co.uk/2018/02/students-use-gate-and-twitter-to-drive.html	Teaching Institutions
19/07/2017	SoBigData Workshop @ Lipari Summer School	Workshop	SoBigData City of Citizens workshop @ Lipari Summer School	Roberto Trasarti, Fosca Giannotti, Mark Cotè, Angelo Facchini, Mirco Nanni, Dino Pedreschi	http://www.sobigdata.eu/events/2nd-sobigdata-workshop-city-citizens-lipari-summer-school	
24/07-04/08/2017	Essex University Summer School on Big Data and Analytics	Tutorials	Practical text analytics and sentiment analysis from social media, Introduction to NLP	Diana Maynard	https://www.essex.ac.uk/research/institutes-and-centres/institute-for-analytics-and-data-science/big-data-and-analytics-summer-school	
08/09/2017	SoBigData Workshop @ Festival Internazionale della Robotica	Workshop	SoBigData Workshop: DATA SCIENCE FOR SOCIETY	Paolo Ferragina, Fosca Giannotti, Dino Pedreschi, Kalina Bontcheva, Mirco Nanni, Christina Muntean, Fabrizio Lillo, Stefano Cresci, Rossano Venturini, Paolo Cintia, Raffaele Perego, Daniele Regoli, Marco Cornolti, Anna Monreale,	http://www.festivalinternazionaledellarobotica.it/it/session/data-science-for-society/	
12/9/2017	TELERISE @SAFECOMP 2017 3rd International Workshop on TEchnical and LEgal aspects of data pRivacy and SEcurity	Workshop	Fast estimation of privacy risk in human mobility data	Roberto Pellungrini, Luca Pappalardo, Francesca Pratesi and Anna Monreale	http://www.iit.cnr.it/telerise2017/#program	Research
18/9/2017	PAP @ECML	talk in	Assessing Privacy	Roberto	http://kdd.isti.cnr.i	Research

	PKDD 2017 PERSONAL ANALYTICS AND PRIVACY	Workshop	Risk in Retail Data	Pellungrini	t/pap2017/	
18/9/2017	PAP @ECML PKDD 2017 PERSONAL ANALYTICS AND PRIVACY	Workshop	PAP 2017 – 1st International Workshop of Personal Analytics and Privacy	Riccardo Guidotti, Anna Monreale, Dino Pedreschi	http://ecmlpkdd2017.ijs.si/program.html	Research
18/9/2017	ECML PKDD 2017	workshop	DyNo 2017 – 3rd International Workshop on Dynamics in and of Networks	Giulio Rossetti, Letizia Milli	http://ecmlpkdd2017.ijs.si/program.html	Research
18/9/2017	ECML PKDD 2017	workshop	MIDAS – 2nd Workshop on Mining Data for financial applicationS	Guido Caldarelli, Tiziano Squartini	http://ecmlpkdd2017.ijs.si/program.html	Research
18/9/2017	ECML PKDD 2017	workshop	KnowMe – 1st International Workshop on Knowledge Discovery from Mobility and Transportation Systems	Roberto Trasarti	http://ecmlpkdd2017.ijs.si/program.html	Research
18/9/2017	KNOWMe: 1st International Workshop on Knowledge Discovery from Mobility and Transportation Systems	invited keynote	The SobigData Research Infrastructure	Fosca Giannotti	http://kdd.isti.cnr.it/knowme.eu/	
18/9/2017	KNOWMe: 1st International Workshop on Knowledge Discovery from Mobility and Transportation Systems	invited keynote	Big Data For City Science: The Power Of Networks	Fosca Giannotti	http://kdd.isti.cnr.it/knowme.eu/	
22/09/2017	KNOWMe: 1st International Workshop on Knowledge Discovery from Mobility and Transportation	Workshop	Workshop presentation: Car sharing through the data analysis lens	Chiara Boldrini	http://kdd.isti.cnr.it/knowme.eu/	Research

	n Systems					
25/09/2017	Présentation du Diplôme et Journée thématique « Big Data »	invited talk	Big Data stories from a European perspective	Raffaele Perego	https://depinfo.u-cergy.fr/actualites/55-journee-thematique-big-data	Research, Industry
29/09/2017	SoBigData workshop	Workshop	Nowcasting Well Being in Societies	Fosca Giannotti	http://www.sobigdata.eu/nowcasting-well-being-societies	
29/09/2017	SoBigData workshop: Nowcasting Well Being in Societies	Workshop	SoBigdata: Synthesis from well-being-economy exploratory	Luca Pappalardo	http://www.sobigdata.eu/nowcasting-well-being-societies	
06/10/2017	OPA Europe, Pisa	Invited talk	SoBigData Research Infrastructure			Research
7-9/10/2017	International Conference on Computational Approaches to Diversity in Interaction and Meaning	Invited Talk	Invited Talk "Adapting NLP tools to diverse data: challenges and solutions"	Diana Maynard	https://www.essence-network.com/essence-final-conference/	Research
17/10/2017	European Institute University	Seminar	Sobigdata: Verso Un Cern Per La Data Science	Fosca Giannotti		
18/10/2017	Helsinki digital humanities summit (HELDIG) 2017	Invited talk	Network mining: Historic data analysis and online social debates	Aristides Gionis	https://www.helsinki.fi/en/helsinki-centre-for-digital-humanities/heldig-digital-humanities-summit-2017	Research
19/10/2017	DSAA2017 - Data Science and Advanced Analytics	special session in conference	Special Session on Data Science in Societal Debates (DSSD)	Stefano Cresci, Maurizio Tesconi, Kalina Bontcheva, Aristides Gionis	http://www.dslab.it.aoyama.ac.jp/dsa2017/specialsessions/	
23/10/2017	ASPEN Institute, Bologna, Italy	invited talk	Data Science And Big Data: A Game-Changer For Science And Innovation	Fosca Giannotti		
09/11/2017	CIKM 2017 International Conference on Information and Knowledge Management	talk at Conference	Two-stage framework for computing entity relatedness in Wikipedia	Marco Ponza	http://www.cikmconference.org/CIKM2017/index.html	Research

10/11/2017	Pisa Book festival	Book presentation	Il pensiero computazionale dagli algoritmi al coding	Paolo Ferragina		General Public
16/11/2017	CONFERENZA GARR 2017: the data way to science	invited talk	SoBigData: Social Mining and Big Data Ecosystem	Fosca Giannotti	https://www.eventi.garr.it/it/conf17/programma	
23/11/2017	University of Ghent Data Science Seminar	Invited talk	Active network alignment	Aristides Gionis	https://www.meetup.com/UgentDSS/events/244172728/	Research
27/11/2017	Data Science Colloquia (PhD Program in Data Science), Univ. of Pisa	Seminar	Data Science for pattern discovery and machine learning transparency	Dino Pedreschi	https://datascience.phd.eu/events/data-science-pattern-discovery-and-machine-learning-transparency	
28/11/2017	Search Solutions 2017	tutorial	Text Analysis with GATE	Diana Maynard	http://irsg.bcs.org/SearchSolutions/2017/ss2017tutorials.php	Research
29/11/2017	GOODTECHS 2017, 3rd EAI International Conference on Smart Objects and Technologies for Social Good	talk	Privacy Preserving Multidimensional Profiling	Francesca Pratesi	http://goodtechs.eu/2017/show/program-final	Research
30/11/2017	<i>European Commission Workshop: Big Data and alternative data sources on migration: from case studies to policy support.</i>	workshop	Data Science for Migration Studies: the SoBigData.eu Exploratory	Dino Pedreschi	https://bluehub.jrc.ec.europa.eu/bigdata4migration/programme-presentations	Policy and Law Makers
05/12/2017	Agcom e Garante Privacy, Italy	invited talk	Audizione: Big Data Analytics, Agcom e Garante Privacy	Fosca Giannotti		
05/12/2017	Seminario Faraday: Dagli algoritmi all'intelligenza artificiale alla robotica	Invited talk	Dagli algoritmi all'intelligenza artificiale alla robotica	Paolo Ferragina	https://www.unipi.it/index.php/unipieventi/event/3500-dagli-algoritmi-all-intelligenza-artificiale-alla-robotica-due-	General Public

					visioni-a-confronto-sul-rapporto-tra-persone-e-macchine	
9/12/2017	NIPS Workshop on Prioritising Online Content	Invited talk	Political echo chambers in social media	Aristides Gionis	http://www.k4all.org/event/prioritising/	Research
12/12/2017	Huawei, Paris	Invited Talk	The evolution of (string) search	Paolo Ferragina		Industry
13/12/2017	Data Science Colloquia (PhD Program in Data Science), Univ. of Pisa	Seminar	From ego-networks to online social networks	Marco Conti	http://datasciencephd.eu/events/data-science-colloquia	Teaching Institutions
19/12/2017	House of Commons, UK Parliament	talk	Digital, Culture, Media and Sport Committee, Oral evidence: Fake News presented at UK parliament	Kalina Bontcheva	http://data.parliament.uk/writtenevidence/committeeevidence.svc/evidence/document/digital-culture-media-and-sport-committee/fake-news/oral/74926.html	Policy and Law Makers
2018						
15/01/2018	Data to Change - Human Digital Transformation	talk	Big data, Intelligenza Artificiale, Etica	Dino Pedreschi	https://www.wired.it/attualita/media/2018/01/12/data-to-change-data-etica-convegno/ https://www.eventbrite.it/e/biglietti-data-to-change-human-digital-transformation-40981917017#	
25/01/2018	18 eme Conference Internationale Sur L'extraction Et La Gestion Des Connaissance ", Maison Des Science De L'homme De Paris Nord	Invited speech	Big Data For Understanding Human Dynamics: The Power Of Networks	Fosca Giannotti		
07/02/2018	Data Science	Seminar	Financial Networks	Guido Caldarelli	https://datascience	

	Colloquia (PhD Program in Data Science), Univ. of Pisa				phd.eu/events/financial-networks	
01/02/2018 - 31/03/2019	Alan Turing Institute	Fellowship from Rutherford foundation	Alan Turing Institute (ATI) Visiting Fellow	Kimmo Kaski (Aalto University)	https://www.turing.ac.uk/people/researchers/kimmo-kaski	research
22/02/2018	New dimensions of social capital: from big data to field experiments”	Invited talk	New dimensions of social capital: from big data to field experiments”	Andrea Passarella	http://corsi.unibo.it/redazione/SharedDocuments/Shared/Workshop_REBEL_Bologna.pdf	Research
27/02/2017	King's College London	Tutorial	Search engines from terms to concepts	Paolo Ferragina		research
01/03/2018	Workshop RDA, CNR Italy, Pisa	Invited talk	SoBigData.eu e-infrastructure	Roberto Trasarti		Research
01/03/2018	State of Sheffield module, Sheffield University	Teaching module	Tweets, Twits and Twaddle: Trends in Online Abuse towards UK Politicians	Genevieve Gorrell	http://www.dcs.shef.ac.uk/~genevieve/sos-online-abuse-politicians-v2.mp4	Teaching Institutions
02/03/2018	WDA 2018, Department of Computer Science, Italy Pisa	Invited talk	SoBigData.eu project	Roberto Trasarti	http://pages.di.unipi.it/datamod/wda-2018/	Research
05/03/2018	Exploring Media Ecosystems 2018 - MIT Media Lab	invited talk	Detecting Malicious Social Media Accounts	Stefano Cresci	https://mediacloud.org/conference/2018/	Research, Industry
06/03/2018	indagine conoscitiva sui Big Data	Indagine conoscitiva	indagine conoscitiva sui Big Data avviata dalle tre agenzie: L'Autorità Antitrust, l'Autorità per le Garanzie e nelle Comunicazioni e l'Autorità Garante per la protezione dei dati personali.	Dino Pedreschi, Fosca Giannotti	http://www.agcm.it/stampa/comunicati/8781-ic53-avviata-indagine-conoscitiva-sui-big-data.html	
12/03/2018	Machine Learning and Data Analytics Symposium	Invited talk	Computational problems in mining urban data	Aristides Gionis	http://www.mldas.org/	Research, Industry

	(MLDAS) 2018					
14/03/2018	PI-day 2018 - Matematica e Coding	Invited Talk	I motori di ricerca	Paolo Ferragina	http://www.liceosiciliani.it/index.php/bacheca/news/1020-pi-day-2018	High Schools
19/03/2018	PerCrowd Workshop	Keynote talk	The Internet of People (IoP): A New Wave in Pervasive Mobile Computing	Andrea Passarella	http://percrowd.blogspot.it/p/program.html	Research
22/03/2018	Ceremony for the Conferment as an Honorary Member of the Mexican Academy of Sciences	Honorary talk	From Solid State to Statistical to Social Physics - Computational Discoveries of Matter and Mankind	Kimmo Kaski	https://www.facebook.com/amciencias/posts/el-doctor-kimmo-kaski-es-reconocido-mundialmente-por-sus-trabajos-de-investigaci/1660515924033574/	research
24/03/2018	First International Workshop on Online Social Networks and Media: Network Properties and Dynamics (OSNED) 2018	talk	Mining temporal networks	Aristides Gionis	https://osned.netsons.org/	Research
28/03/2018	Data Science Colloquium, PhD Data Science, Univ. of Pisa	Seminar	Data Science For Nowcasting & Forecasting	Fosca Giannotti	https://datasciencephd.eu/events/data-science-nowcasting-forecasting	
04/04/2018	Data Science Colloquium, PhD Data Science, Univ. of Pisa	Seminar	Answering complex queries in near-real time: challenges and applications	Raffaele Perego	https://datasciencephd.eu/events/answering-complex-queries-near-real-time-challenges-and-applications	
05/04/2018	AISB conference workshop on Emotion Modeling and Detection in Social Media and Online Interaction	Invited Keynote	Twits, Twats and Twaddle. Analysis of hate speech towards politicians in the GATE social media toolkit.	Diana Maynard	http://collab.di.uniba.it/aisbemotions	Research
13/04/2018	Pianeta Galileo: Primo incontro con	Invited talk	Il pensiero computazionale dagli algoritmi al	Paolo Ferragina	http://www.consiglio.regione.toscana.it/pianeta-	High Schools

	la scienza		coding		galileo/default.aspx?idc=65&nome=inccontri_2018_autori	
23/04/2018	Web Conference 2017	Poster presentation	User Fairness in Recommender Systems	Avishek Anand	https://www2018.thewebconf.org/proceedings/	Research
23/04/2018	Web Conference 2018	Tutorial	Polarization on social media	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	http://gvrkiran.github.io/polarization/	Research, Industry
24/04/2018	SoBigData @ The www 2018 - the Web Conference	talks	SoBigData: Social Mining & Big Data Ecosystem	Roberto Trasarti	https://www2018.thewebconf.org/program/international-projects/	Research
02/05/2018	Data Science Colloquium, PhD Data Science, Univ. of Pisa	Seminar	Validating, reconstructing, predicting: a broad overview of network techniques	Tiziano Squartini	https://datasciencephd.eu/events/validating-reconstructing-predicting-broad-overview-network-techniques	
03/05/2018	Freewheeling on Big Data, Platforms and Data Analysis	talk in workshop	SoBigData	Fosca Giannotti	http://embeds.santannapisa.it/event/freewheeling-big-data-platforms-and-data-analysis	
03/05/2018	Freewheeling on Big Data, Platforms and Data Analysis	talk in workshop	QuantFinance	Fabrizio Lillo	http://embeds.santannapisa.it/event/freewheeling-big-data-platforms-and-data-analysis	
03/05/2018	Freewheeling on Big Data, Platforms and Data Analysis	talk in workshop	Wellbeing & Economics applications	Dino Pedreschi	http://embeds.santannapisa.it/event/freewheeling-big-data-platforms-and-data-analysis	
14/05/2018	Scuola Sant'Anna, Pisa	invited talk	The Sobigdata.it Ecosystem	Fosca Giannotti		
16/05/2018	Data Science Colloquium, PhD Data Science, Univ. of Pisa	Seminar	Financial Data Science	Fabrizio Lillo	https://datasciencephd.eu/events/financial-data-science	
15/05/2018	Univ Constance	invited talk	visual analytics	Natalia and Gennady Andrienko	-	Research

17/05/2018	KU Leuven	tutorial	Temporal Web Indexing	Avishek Anand		Research
23/05/2018	Roundtable on the Digital Economy	Roundtable	Roundtable on the Digital Economy	Fosca Giannotti	https://www.uniurb.it/comunicati/22450	Policy and Law Makers
24/05/2018	Public conference at the CSH Vienna	Invited talk	Complexity Science – en route from Data-driven Discoveries to Data-driven Societies	Kimmo Kaski	https://www.csh.ac.at/event/csh-conference-complexity-where-do-we-go-from-here/	Research
27-29/05/2018	Dortmund conference: Das nächste Level der Mobilität: Automatisierung, multimodale Services und die Rolle von Daten	Invited talk	Data privacy @ SoBigData.eu: privacy-by-design, risk assessment, personal data analytics & new deal on personal data	Fosca Giannotti	https://cps-hub-nrw.de/termine/2018-03-28-mobilitaet-zeiten-der-digitalisierung-voraussetzungen-fuer-autonomes-fahren-und	Research
30/05/2018	9th Italian Information Retrieval Workshop (IIR) 2018	Talk	Combating polarization in social media	Aristides Gionis	http://www.diag.uniroma1.it/~iir2018/	Research
30/05/2018	University of Sapienza Department of Computer Science	Seminar	The Sobigdata Research Infrastructure	Fosca Giannotti		
04/06/2018	EuroVA 2018	keynote talk	visual analytics of football	Natalia and Gennady Andrienko	http://www.eurova.org/eurova-2018/keynote-2018	Research
08/06/2018	Univ Brno	invited talk	Visual football analytics	Gennady and Natalia Andrienko		research
11/06/2018	Workshop on Quantifying success, International School and Conference on Network Science (NETSCI)	Invited Talk	Data-driven algorithms for performance evaluation of soccer players	Paolo Ferragina	https://www.netsci2018.com/	Research
11-15/06/2018	11th GATE Training Course	Tutorial	Large Scale Text and Social Media Analytics with GATE	Kalina Bontcheva, Genevieve Gorrell	https://gate.ac.uk/conferences/fig/fig11.html	Research
14-15 /06/	THATCamp	Invited	Introduction to	Diana Maynard	http://ugainvalenc	Research

2018	(The Humanities and Technology Camp)	Tutorial	GATE for text analysis		e2018.thatcamp.org/2018/05/30/introduction-to-gate-for-text-analysis/	
14-15/06/2018	Workers and firms in the platform economy	Talk		Roberto Trasarti	http://www.storep.org/wp/en/confere-nza-il-lavoro-e-limpresanelleconomia-delle-piattaforme-roma-14-15-giugno-2018/	Policy and Law Makers
15/06/2018	PSE Workshop on “Big Data and Migration” June 15, Paris School of Economics	Workshop	PSE Workshop on “Big Data and Migration” June 15, Paris School of Economics	Fosca Giannotti, Dino Pedreschi, Luca Pappalardo, Alina Sirbu	https://www.parisschoolofeconomics.eu/en/research/seminars/migration-seminar/	Research
18/06/2018	Siemens, Munich	Seminar	Data Ethics In Sobigdata	Fosca Giannotti		
19/06/2018	IEEE SmartComp 2018	Keynote talk	From people-centric computing and networking to Internet of People	Marco Conti	https://easychair.org/cfp/SMARTCOMP2018	Research
25/06/2018	DataMod Workshop, Toulouse (France)	Workshop	Analyzing Privacy Risk in Human Mobility Data	Francesca Pratesi	http://pages.di.unipi.it/datamod/editon-2018/	Research
25/06/2018	JRC Resonances Summer School on Big Data @ ISPRA	Workshop	Big Data, Opportunities, Perils & Countermeasures. Resonance_Art_Science	Fosca Giannotti	https://ec.europa.eu/jrc/en/event/other-event/resonances-summer-school-big-data	Research
28/06/2018	Generali Italia TAM TAM TALKS	Talk	Human artificial intelligence: open the black box	Dino Pedreschi	https://www.youtube.com/watch?time_continue=176&v=4qPkgASlWaM	
03/07/2018	Google	Invited Talk	Performance evaluation in soccer from data to algorithms	Paolo Ferragina	https://plus.google.com/+GoogleSwitzerland	Research
03-04/07/2018	Univ Vilnius and GIS-Centras	invited talks	visual analytics	Natalia and Gennady Andrienko	http://www.gis-centras.lt/gisweb/index.php?pageid=8	Research, Industry
05/07/2018	UCREL Summer School in Corpus-Based Natural	Summer school lecture/Invited talk	Large-scale Social media analysis	Kalina Bontcheva	http://ucrel.lancs.ac.uk/summerschool/nlp.php	Research

	Language Processing					
07/07/2018	Working class hero - Grosseto-	workshop	Data journalism and Big Data	Giulio Rossetti		Journalists
18/07/2018	IJCAI 2018	invited talk	Reducing controversy by connecting opposing views	Kiran Garimella	http://static.ijcai.org/2018-Program.html	Research
23-30/07/2018	Essex University Summer School on Big Data and Analytics	Tutorial	Tutorials on "Practical Sentiment Analysis" and "Introduction to NLP"	Diana Maynard	https://www.essex.ac.uk/research/institutes-and-centres/institute-for-analytics-and-data-science/big-data-and-analytics-summer-school	Research
19-25/07/2018	Lipari Summer School: From swarm intelligence to digital democracy: new tools for a complex society	Talk	Compression and Indexing of Big Data: what's new?	Paolo Ferragina	https://complex.liparischool.it/paolo-ferragina-abstract	research
25/07/2018	Cambridge IBSEN International Conference on Large scale Experiments	Invited talk	Network coordination: experiment and modelling	Kunal Bhattacharya, Kimmo Kaski, Daniel Monsivais	https://www.inet.econ.cam.ac.uk/our-events/cambridge-ibsen-international-conference-on-large-scale-experiments-july-2018	research
26/07/2018	University of Edinburgh	invited talk	Visual Analytics	Natalia and Gennady Andrienko	-	Research
27/07/2018	GESIS Research Institute, Cologne	Invited talk	Using language to save the world: information extraction tools for social media and medical data analysis	Diana Maynard	https://www.gesis.org/angebot/veranstaltungen/gesis-vortragsreihen/vortrags-archiv/2018/ko-20180727/	Research
30/07-4/08/2018	WSTNet Web Science Summer School	Invited Keynote and Tutorial	Social media analysis with GATE	Diana Maynard	http://wwsss18.wbscience.org/	Research
31/07/2018	WSTNET Summer School	tutorial	Temporal Information Retrieval	Avishek Anand	http://wwsss18.wbscience.org/index.php/schedule/	Research
02/08/2018	City Univ	invited talk	Visual football	Gennady and	http://www.eurova	research

	London		analytics	Natalia Andrienko	.org/eurova-2018/keynote-2022	
12/08/2017	Big Data tech	Invited Talk	Intelligent Application of Big Data: Big Opportunities and Big Risks	Anna Monreale		Research, Industry
20/08/2018	SIGKDD 2018	Tutorial	Polarization on social media	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	http://gvrkiran.github.io/polarization/	Research, Industry
20/08/2018	KDD 2018	Workshop	Opinions, Conflict, and Abuse in a Networked Society (OCeANS)	Aristides Gionis, Antonis Matakos, Panayiotis Tsaparas, Tijn De Bie, Xi Chen	https://sites.google.com/view/oceans-kdd2018/home	research
21/08/2018	Digital Methods in Humanities and Social Sciences	Workshop	Workshop on social network analysis	Rajesh Sharma	https://digitalmethods.ut.ee/	Research

Table 4. Workshop Organisation/Tutorials/Invited Talks.

2.4.4 PRESS COVERAGE

Date	Persons involved	Publication Title	Source
2017			
09/07/2017	Luca Pappalardo and Dino Pedreschi	Big data applicati al calciomercato: la rete sociale dei trasferimenti dagli anni '50 ad oggi	http://www.calciofinanza.it/2017/07/09/big-data-applicati-al-calciomercato-network-analysis/
09/07/2017	Luca Pappalardo and Dino Pedreschi	Il calciomercato fa rete	http://nova.ilsole24ore.com/nova24-tech/il-calciomercato-fa-rete/?refresh_ce=1
23/07/2017	Kalina Bontcheva	Twitter Has Suspended Another 45 Suspected Propaganda Accounts After They Were Flagged By BuzzFeed News	https://www.buzzfeed.com/tomphillips/twitter-abuse-of-mps-during-the-election-doubled-after-the
31/08/2017	Luca Pappalardo and Paolo Cintia	Lo dice la scienza	https://lucapappalardo.files.wordpress.com/2015/07/tuttosport-31-agosto-2017-wallabies.pdf
16/10/2017	Luca Pappalardo and Paolo Cintia	L'algoritmo del gol: così la scienza ha innovato il calcio	https://www.ilfoglio.it/sport/2017/10/16/news/l-algoritmo-del-gol-cosi-la-scienza-ha-innovato-il-calcio-157935/
24/11/2017	Kalina Bontcheva	This Is What The Twitter Abuse Of Politicians During The Election	https://www.buzzfeed.com/tomphillips/we-found-45-suspected-bot-

		Really Looked Like	accounts-sharing-pro-trump-pro
6/12/2017	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	Social media algorithm pops filter bubbles by presenting ideas you disagree with	https://www.digitaltrends.com/cool-tech/filter-bubble-algorithm-pop/
13/12/2017	Luca Pappalardo, Paolo Cintia, Fosca Giannotti, Dino Pedreschi	Data Mining Reveals the Way Humans Evaluate Each Other	https://www.technologyreview.com/s/609760/data-mining-reveals-the-way-humans-evaluate-each-other/
2018			
03/02/2018	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	Kyllä, algoritmit uhkaavat demokratiaa – Valta luisuu some- miljardööreille	https://yle.fi/uutiset/3-10041316
09/02/2018	Dino Pedreschi, Andrea Passarella e Raffaele Perego	Scienza dei dati per il bene comune', Big Data all'Università di Pisa	http://www.gonews.it/2018/02/09/scienza-dei-dati-bene-comune-big-data-alluniversita-pisa/
12/02/2018	Dino Pedreschi	Big Data: la nuova frontiera dell'eccellenza pisana	http://www.pisainformaflash.it/news/big-data-la-nuova-frontiera-delleccellenza-a-pisa/
12/02/2018	Fosca Giannotti	Big Data: la scienza dei dati per il bene comune	http://www.pisainformaflash.it/evento-pisa/big-data/
24/02/2018	Luca Pappalardo and Paolo Cintia	La dura legge del gol: quando un algoritmo siede in panchina	https://www.forbes.it/sites/it/2018/02/24/la-dura-legge-del-gol-quando-un-algoritmo-siede-in-panchina/#7b42db674c9b
12/03/2018	Fosca Giannotti	Putting people at the heart of big data	https://horizon.scienceblog.com/184/putting-people-at-the-heart-of-big-data/
12/03/2018	Fosca Giannotti	Putting people at the heart of big data	https://phys.org/news/2018-03-people-heart-big.html
23/03/2018	Fabrizio Lillo, Maurizio Tesconi, Stefano Cresci	Così i tweet dei robot insidiano le news dei listini di Borsa	http://www.ilsole24ore.com/art/finanza-e-mercati/2018-03-22/cosi-tweet-robot-insidiano-news-listini-220125.shtml?uuid=AEopFvLE&refresh_ce=1
29/03/2018		The Potential and Practice of Data Collaboratives for Migration	https://ssir.org/articles/entry/the_potential_and_practice_of_data_collaboratives_for_migration
31/03/2018	Fosca Giannotti	Big data, opportunità e rischi secondo Fosca Giannotti	https://www.lettera43.it/it/articoli/cronaca/2018/03/31/cambridge-analytica-big-data-fosca-giannotti-sobigdata/219051/
01/04/2018	Luca Pappalardo and Paolo Cintia	Nicola, l'allenatore che spiega il calcio con i Big Data: «Tutto (o quasi) è prevedibile coi numeri»	https://www.corriere.it/tecnologia/cyber-cultura/18_aprile_01/nicola-l-allenatore-che-spiega-calcio-big-data-

			tutto-o-quasi-prevedibile-coi-numeri-2c36494c-35ca-11e8-b2e5-b255d4399dd5.shtml
04/04/2018	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	Pop Goes the Filter Bubble? Algorithms may be able to help us step out of our echo chambers.	https://slate.com/technology/2018/04/personalization-algorithms-could-actually-help-pop-filter-bubbles.html?via=gdpr-consent
12/04/2018	Dino Pedreschi, Paolo Ferragina, Fosca Giannotti, Paolo Cintia, Luca Pappalardo	Macchine e algoritmi a caccia del nuovo Ronaldo	http://www.ilsole24ore.com/art/notizie/2018-04-08/macchine-e-algoritmi--caccia-nuovo-ronaldo-150154.shtml?uuid=AEw8fVQE
24/04/2018	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	Comment les réseaux sociaux accentuent l'enfermement dans ses idées	https://mobile.lemonde.fr/pixels/article/2018/04/24/comment-les-reseaux-sociaux-accentuent-l-enfermement-dans-ses-idees_5289874_4408996.html
29/04/2018		Il lato oscuro dei listini: così gli algoritmi manipolano i mercati	http://www.ilsole24ore.com/art/finanza-e-mercati/2018-04-27/il-lato-oscuro-listini-cosi-algoritmi-manipolano-mercati-183257.shtml?uuid=AE1qK3eE
01/05/2018	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	Social Media 'Echo Chambers' Reinforce Political Partisanship	https://www.tun.com/blog/social-media-echo-chambers-reinforce-political-partisanship/
01/05/2018	Stefanie Hänold, Jan Klemmer	Free GDPR Online Course by SoBigData	http://blog.iri.uni-hannover.de/index.php/page/2/
01/05/2018	Stefanie Hänold; Avishek Anand	Online-Kurs zur Datenschutzgrundverordnung	https://www.l3s.de/de/content/online-kurs-zur-datenschutzgrundverordnung
03/05/2018	Eric Malmi, Aristides Gionis	Tekoäly kävi läpi miljoonia suomalaisia – Yllättävä havainto: Yhteiskunta jämahti 150 vuodeksi tiukkaan luokkajakoon	https://www.uusisuomi.fi/kotimaa/247755-tekoaly-kavi-lapi-miljoonia-suomalaisia-yllattava-havainto-yhteiskunta-jamahti-150
05/05/2018	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	Use Twitter regularly? You might be in an echo chamber	http://www.digitaljournal.com/tech-and-science/technology/research-confirms-echo-chambers-on-twitter-exist/article/521413
09/05/2018	Kiran Garimella, Gianmarco De Francisci Morales, Aristides Gionis, Michael Mathioudakis	Molempia osapuolia ymmärtäviä ihmisiä rangaistaan sosiaalisessa mediassa – Aalto-yliopiston analyysi miljardeista twiiteistä todistaa sen minkä sisimmässä jo tiesitkin	https://www.hs.fi/nyt/art-2000005673179.html

07/05/2018	IMT	Complexity72h, alla scuola IMT un incontro tra studiosi di vari settori per tre giorni di ricerca, nel segno dell'interdisciplinarietà	https://www.lagazzettadilucca.it/cultura-e-spettacolo/2018/05/complexity72h-alla-scuola-imt-un-incontro-tra-studiosi-di-vari-settori-per-tre-giorni-di-ricerca-nel-segno-dellinterdisciplinarieta/
08/05/2018	IMT	Workshop sperimentale a Imt - Denominato Complexity72h, coinvolge 40 ricercatori da tutta Europa	http://iltirreno.gelocal.it/lucca/cronaca/2018/05/08/news/workshop-sperimentale-a-imt-1.16810334
14/05/2018	Luca Pappalardo and Paolo Cintia	I numeri del calcio	https://www.youtube.com/watch?v=RaXT05y829w&t=3485s
06/06/2018	Luca Pappalardo and Paolo Cintia	Sports performance evaluation	https://www.youtube.com/watch?v=ixs9XutuOSA&t=8s
25/06/2018	Beatrice Rapisarda, Stefano Cresci	Digital DNA: How to map our online behavior	https://ocean.sagepub.com/blog/2018/6/22/digital-dna-how-to-map-our-online-behavior
02/07/2018	Fosca Giannotti	Nasce il laboratorio nazionale sull'intelligenza artificiale	https://www.industriaitaliana.it/nasce-il-laboratorio-nazionale-sull-intelligenza-artificiale/
05/07/2018	Giulio Rossetti	Data Journalism e Big Data'. La rivoluzione dell'informazione giornalistica nell'era di Internet e delle Reti Sociali.	https://www.maremanews.it/index.php/attualita/54954-data-journalism-e-big-data-la-rivoluzione-dell-informazione-giornalistica-nell-era-di-internet-e-delle-reti-sociali?jjj=1532072552278
06/07/2018	UNIVERSITY COLLEGE LONDON, Luca Pappalardo	City size plays crucial role in migration patterns	https://eurekaalert.org/pub_releases/2018-07/ucl-csp070518.php
06/07/2018	Dino Pedreschi	Human Artificial Intelligence	https://www.youtube.com/watch?v=4qPkGASiWaM&t=663s
22/07/2018	Dino Pedreschi	Una chiave per la scatola nera dell'IA	http://www.sobigdata.eu/blog/open-black-boxes-ai
23/07/2018	Dino Pedreschi	The Black Box Society: come fanno le imprese a fidarsi dei loro prodotti?	http://www.ilsole24ore.com/art/tecnologie/2018-07-23/the-black-box-society-come-fanno-imprese-fidarsi-loro-prodotti--085843.shtml?uid=AEC7FIJF&refresh_ce=1
27/07/2018	Alessio Rossi, Luca Pappalardo, Paolo Cintia	L'intelligenza artificiale aiuta i calciatori a evitare gli infortuni	https://www.wired.it/lifestyle/sport/2018/07/27/intelligenza-artificiale-aiuta-calciatori-evitare-infortuni/
09/08/2018	Luca Pappalardo, Paolo Cintia	"Your muscle is due!" Prophesied the artificial intelligence	https://nzzas.nzz.ch/wissen/muskel-ist-faellig-prophezeit-die-kuenstliche-intelligenz-ld.1418042?reduced=true
24/08/2018	Dino Pedreschi	Sarzana: gli scienziati ospiti della XV edizione del Festival della Mente parlano di comunità	http://www.meteoweb.eu/2018/08/sarzana-gli-scienziati-ospiti-della-xv-edizione-del-festival-della-mente-parlano-di-comunita/1141880/

31/08/2018	Kalina Bontcheva, Genevieve Gorrell, Diana Maynard, Mark Greenwood, Ian Roberts	Abusive tweets to MPs 'more than double' between elections	https://www.bbc.co.uk/news/uk-politics-45363720
31/08/2018	Dino Pedreschi, Paolo Ferragina, Luca Pappalardo, Paolo Cintia	Un algoritmo per l'azienda calcio: valutare un giocatore come se fosse un'azione	http://www.ilsole24ore.com/art/tecnologie/2018-08-31/un-algoritmo-l-azienda-calcio-valutare-giocatore-come-se-fosse-un-azione-104104.shtml?uuid=AEi1kzeF&fromSearch

Table 5. Press and news articles from the Consortium.

2.4.5 TUSCAN BIG DATA CHALLENGE

The Tuscan Big Data Challenge is a national initiative devoted to Tuscan SMEs interested in exploring the potential of big data in improving the production processes, their market or their interaction with customers and suppliers. This event is organized in collaboration of WP5. The SoBigData.it lab offers the support of his scientists to analyse companies' data and to produce a proof of concepts to be further developed. The analysis of such data can help the SMEs to improve efficiency, predict failures and reduce the number of defective parts brought on the market.

In Autumn 2017 started the second edition of the Tuscan Big Data Challenge. More details are available in Appendix B. TUSCAN BIG DATA CHALLENGE.

2.4.6 MASTER IN BIG DATA ANALYTICS & SOCIAL MINING

The Post-Graduate Master in Big Data Analysis and Social Mining is a post-graduate master course that takes place at the University of Pisa, Italy and is organised by the University of Pisa, the Istituto di Informatica e Telematica of the Italian National Research Council and the Istituto di Scienza e Tecnologie dell' Informazione of the Italian National Research Council.

The Post-Graduate Master has a one-year duration and its attendance is worth 60 European Credit Transfer and Accumulation System points. This post-graduate master has an interdisciplinary approach, focusing on the diverse skills needed to interact with the technological, analytical, narrative and ethical aspects of Big Data. More details are available in D4.2 "Training Activities: planning, material and reports 1" and in the dedicated website <https://masterbigdata.it/>.

2.4.7 DATA SCIENCE PH.D.

The Data Science Ph.D. is a joint initiative by SoBigData and five of the most important research institutions in the Tuscan area: Scuola Normale Superiore, University of Pisa, National Research Council, Sant'Anna School of Advanced Studies and IMT Lucca.

The Ph.D. in Data Science is aimed at educating the new generation of researchers that combine their disciplinary competences with those of a "data scientist", able to exploit data and models for advancing

knowledge in their own disciplines, or across diverse disciplines. To this purpose, the Ph.D. in Data Science develops a mix of knowledge and skills on the methods and technologies for the management of large, heterogeneous and complex data, for data sensing (how to harvest data), for data analysis and mining (how to make sense of data), for data visualization and storytelling (how to narrate data), for understanding the ethical issues and the social impact of Data Science.

The duration of the Data Science Ph.D. program is three years and is open to students from all disciplines that want to study the Data Science tools for applications in different fields of research. More details are available in D4.2 “Training Activities: planning, material and reports 1” <https://www.unipi.it/index.php/english>.

3 DISSEMINATION IMPACT

In Deliverable 3.3 - “Initial Dissemination and Impact Plan” we have defined a set of indicators in order to monitor the success of the communication activities. In more detail, the success indicators, detailed in the next sections are assessed continuously and reported annually.

3.1 PROJECT DISSEMINATION INDICATORS

Table 6 reports the indicators defined in Deliverable 3.3. The following indicators represent some metrics in order to evaluate the dissemination activities. Several components have been defined such as the “number of publications”, “the number of interviews”, or “the size of the community”.

Component	Metrics	Target Y1	Target Y2	Target Y3	Target Y4
Publications	Number of published / submitted (i.e. peer-reviewed) publications in journals or conferences	15	15	15	15
Reported presentations	Number of presentations	5	10	10	15
Press releases	Number of press releases	5 (General press release in English. Individual releases in several project languages)	5	5	5
Interview / Meeting request	Number of interviews and/or requests for establishing contact to SoBigData	4 (1 with academic background and 3 industrial background)	5	10	15
Size of the end-user community	Number of individuals/organisations in the SoBigData community	100	150	200	250

Table 6. Project dissemination indicators.

3.1.1 DISSEMINATION INDICATORS: RESULTS

This section reports the results considering the dissemination indicators introduced above. In particular, we compute the aggregates from M19 to M36. So the target result for the second period has to be considered as half of the second year plus the one of the third year. For example the target for the number of presentations is 5 for Y2 and 10 for Y3.

Table 7 reports that all the indicators have been addressed during M19 to M36 of the project.

Component	Metrics	Target (M36)	Result
Publications	Number of published / submitted (i.e. peer-reviewed) publications in journals or conferences	22	99
Reported presentations	Number of presentations	15	91
Press releases	Number of press releases	7	36
Interview / Meeting request	Number of interviews and/or requests for establishing contact to SoBigData	12	42
Size of the end-user community	Number of individuals/organisations in the SoBigData community	200	2333

Table 7. Project dissemination indicators results.

3.2 SOCIAL CHANNELS INDICATORS

Since SoBigData has a pervasive presence on social media, such as Facebook, Twitter, LinkedIn, Table 8 reports all the indicators related to social media activities expected in this reporting period.

Channel	Objective	Indicators			
		Y1	Y2	Y3	Y4
News/blog posts	News/blog entries on the project web site	10 Posts	12	12	12
Twitter	Short project updates	20 tweets, 100 followers	40/200	40/300	50/350
Facebook page	Informal project updates and links to the RSS Web site	To be created	30/100	30/100	30/100
Project Web site	Number of visits	100			
	Page views	200	20% growth	20% growth	20% growth
	Pages/Visit	1.5			

Table 8. Social channels indicators.

3.2.1 SOCIAL CHANNELS: RESULTS

Table 9 reports all the results obtained considering the period from M19 to M36 of the project. The indicators show the success of the project and the activities related to SoBigData. In this context, we have to highlight that the Twitter and Facebook channels do not consider only the project activities but all the activities along the project related to dissemination, e.g. presentation to conference or release of paper.

Channel	Objective	Target (M36)	Result
News/blog posts	News/blog entries on the project web site	18	44
Twitter	Short project updates	60 Tweets 400 Followers	562 Tweets 1013 Followers
Facebook page	Informal project updates and links to the RSS Web site	45 Posts 150 Followers	593 Posts 382 Followers 125 Likes
Project Web site	Number of visits	204	20931

	Page views	408	52723
	Pages/Visit	2.16	2.51

Table 9. Social channels indicators results.

For additional information, we show in Fig.3 the complete statistics and the visits timeline.

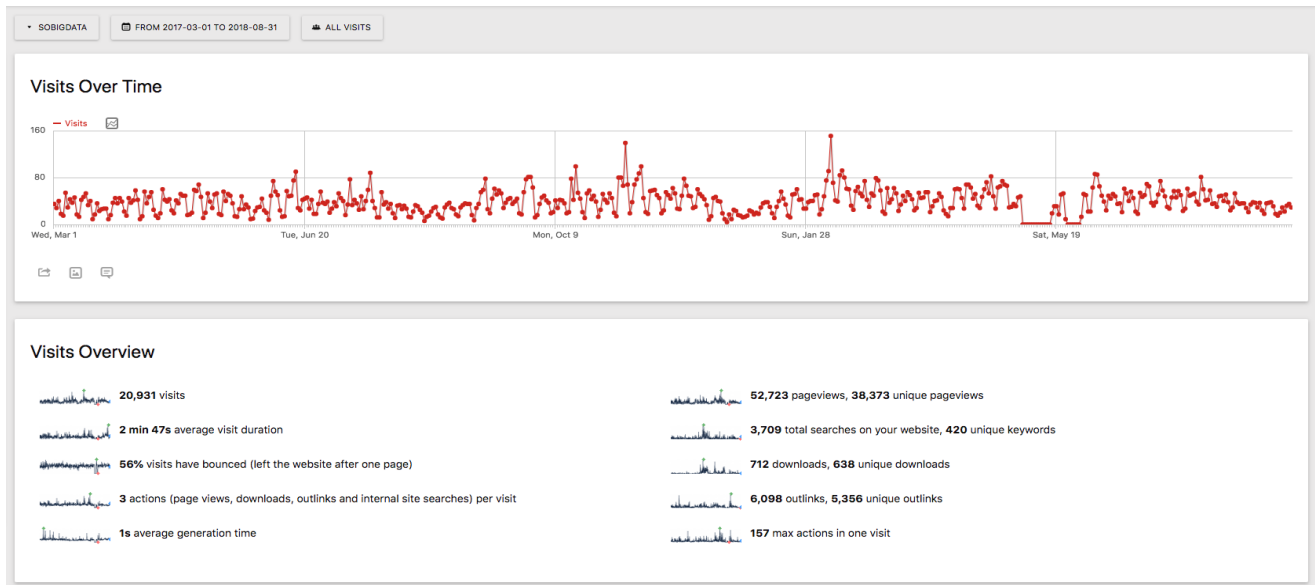


Figure 3. Project Web Site Statistics.

4 CONCLUSIONS

This deliverable shown all the dissemination channels and tools set-up from M19 to M36 of the project. It represents an integration of deliverable “D3.4 - Periodic dissemination and impact report and plan for following year 1” about dissemination and impact plan of SoBigData.

APPENDIX A. FLYER, LEAFLET POSTER AND NEWSLETTER

A.1 Flyer

The flyer produced by SoBigData is freely available at the following link: <https://goo.gl/CRNS9x>

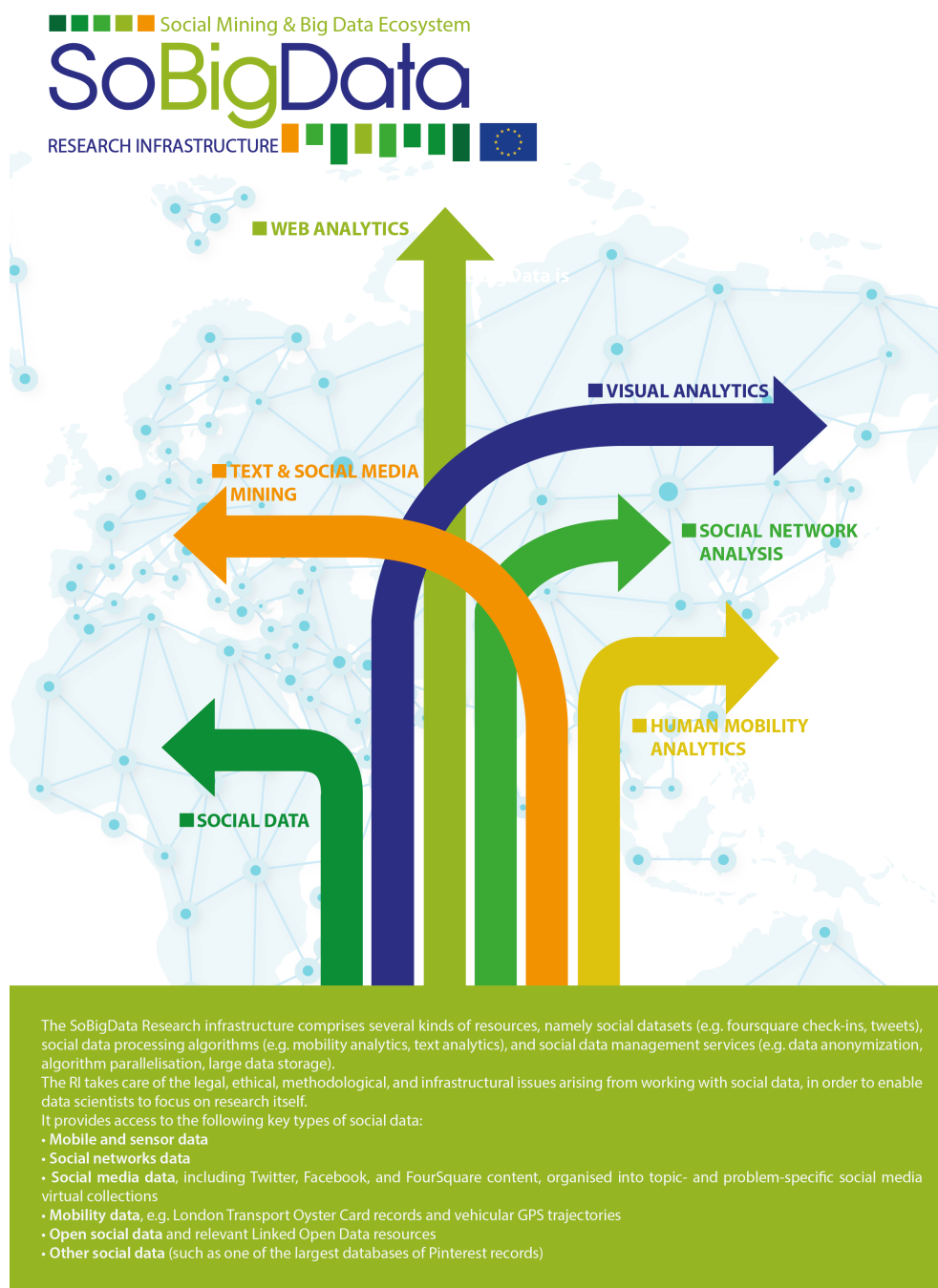


Figure A 1. Front overview of the SoBigData flyer.

How SoBigData can help you:

The SoBigData RI underpins three different types of activities:

- **Virtual Access:** The Virtual Access is realized thanks the e-Infrastructure which offers a web front-end comprising of a catalogue of SoBigData resources (both data and services) and a set of SoBigData Virtual Research Environments dynamically created to address the requirements of specific research experiments. Virtual Research Environments are web-based working environments equipped with a number of applications, enabling scientists to have access to the set of data, services, and algorithms needed to perform their investigation in a collaborative way.
- **Transnational Access:** on-site access services granted by seven national infrastructures, offering world-leading research expertise from multiple disciplines, as well as big data computing platforms, big social data resources, and cutting-edge computational methods. The access is granted through project calls.
- **Networking:** the set of community building activities, which enables SoBigData RI users and developers to co-operate on different analytical approaches, share methods and data resources and achieve a truly multi-dimensional, distributed social mining infrastructure in the European Research Area.

EXPLORATORIES

City of Citizens Human Migration

Well-being & Economic Performance Societal Debates Sports Data Science

www.sobigdata.eu
 SoBigData SoBigData
 info@sobigdata.eu

Consiglio Nazionale delle Ricerche UNIVERSITÀ DI PISA SCUOLA NORMALE SUPERIORE IMT INSTITUTE FOR ADVANCED STUDIES LUCCA The University of Sheffield KING'S COLLEGE LONDON

Fraunhofer FHR Leibniz Universität Hannover Aalto University ETH Zürich TU Delft Delft University of Technology

SoBigData.eu receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 654024

Figure A 2. Back overview of the SoBigData flyer.

A.2 Leaflet

The leaflet produced by SoBigData is freely available at the following link: <https://goo.gl/JQa3UL>

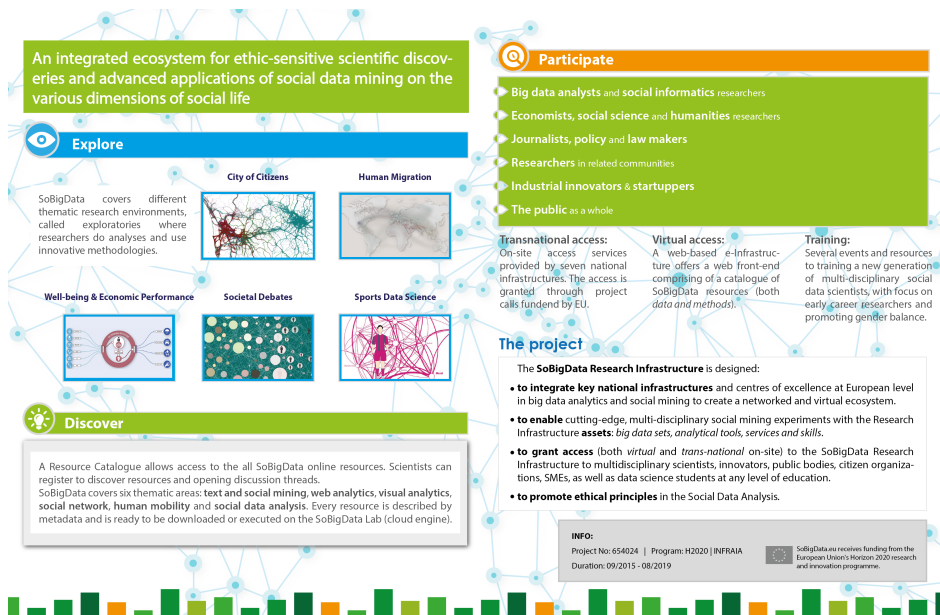
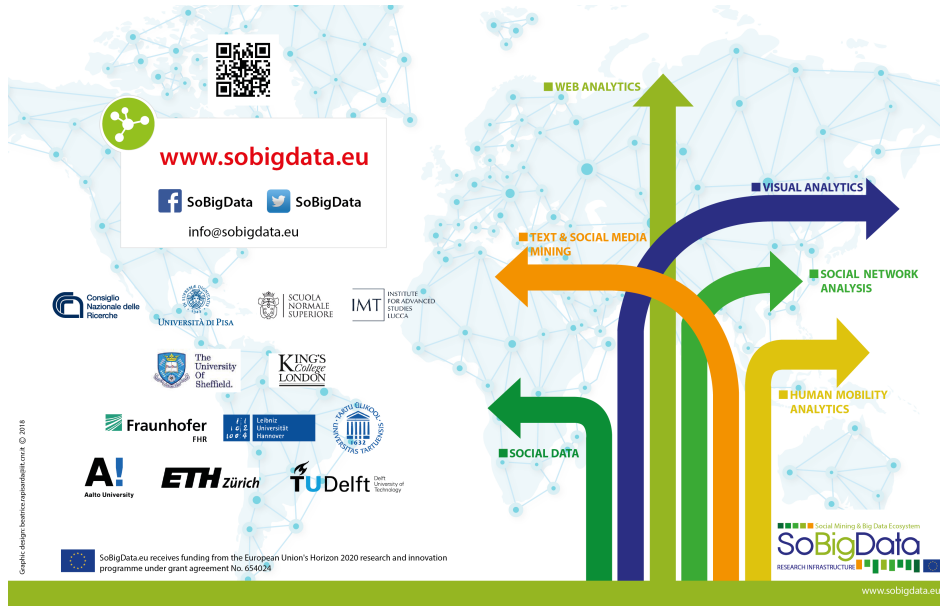


Figure A 3. Overview of the SoBigData leaflet.

A.3 Poster

The poster produced by SoBigData is freely available at the following link: <https://goo.gl/1iauGD>

WEB ANALYTICS

Visual Analytics

TEXT & SOCIAL MEDIA MINING

SOCIAL NETWORK ANALYSIS

HUMAN MOBILITY ANALYTICS

SOCIAL DATA

Social Mining & Big Data Ecosystem
SoBigData
 RESEARCH INFRASTRUCTURE

A Multidisciplinary European Infrastructure on Big Data and Social Data Mining providing an integrated ecosystem for ethic-sensitive scientific discoveries and advanced applications of social data mining on the various dimensions of social life, as recorded by "big data".

www.sobigdata.eu

Facebook SoBigData
 Twitter SoBigData

Exploratories

- City of Citizens
- Human Migration
- Well-being & Economic Performance
- Societal Debates
- Sports Data Science

The SoBigData stakeholders:

- Big data analysts and social informatics researchers
- Economists, social science and humanities researchers
- Journalists, policy and law makers
- Researchers in related communities
- Industrial innovators & start-uppers
- The public as a whole

What SoBigData can offer you:

The SoBigData Research Infrastructure provide access to the following key types of social data:

- Mobile and sensor data
- Social networks data
- Social media data, including Twitter, Facebook, and FourSquare content, organized into topic- and problem-specific social media virtual collections
- Mobility data, e.g. London Transport Oyster Card records and vehicular GPS trajectories
- Open social data and relevant Linked Open Data resources
- Other social data (such as one of the largest databases of Pinterest records)

3 types of access to R.I.

- Virtual Access:** A web-based infrastructure offers a web front-end comprising of a catalogue of SoBigData resources (both data and services).
- Transactional Access:** On-demand services granted by seven national infrastructures. The access will be granted through project calls.
- Networking:** The set of community building activities, which enable SoBigData to achieve its distributed social mining infrastructure in the European Research Area.

UNIVERSITÀ DI PISA
 SCUOLA NORMALE SUPERIORE
 Consiglio Nazionale delle Ricerche
 IMT - ISTITUTO PER AVANZATI STUDI LUCCA
 Fraunhofer
 ETH zürich
 TU Delft

SoBigData receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 654024

Graphic design: beatrice.eparandini@unipi.it © 2018

Figure A 4. Project poster.

A.4 Newsletter

The newsletter produced by SoBigData is freely available at the following link: <https://goo.gl/zEqDi5>

Issue 1 / May 2018

SOBIGDATA RESEARCH INFRASTRUCTURE



Editorial

One of the most pressing and fascinating challenges scientists face today is understanding the complexity of our globally interconnected society.

The big data arising from the digital breadcrumbs of human activities have the potential of providing a powerful social microscope, which can help us understand many complex and hidden socio-economic phenomena. Such challenge requires high-level analytics, modelling and reasoning across all the social dimensions above. There is a need to harness these opportunities for scientific advancement and for the social good, compared to the currently prevalent exploitation of big data for commercial purposes or, worse, social control and surveillance. The main obstacle to this accomplishment, besides the scarcity of data scientists, is the lack of a large-scale open ecosystem where big data and social mining research can be carried out.



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Figure A 5. Cover of the SoBigData newsletter.

APPENDIX B. TUSCAN BIG DATA CHALLENGE

B.1 Description of the Challenge

The Tuscan Big Data Challenge is an initiative devoted to Tuscan SMEs interested in exploring the potential of big data for improving the production processes, their market or their interaction with customers and suppliers.

The Tuscan Data Challenge gives the opportunity to Tuscan SMEs, which usually do not use their data, to enter into the world of Big Data and exploit its potential. The challenge consists in the free involvement of SoBigData.it laboratory, formed by researchers of Tuscan universities and research centres such as CNR in Pisa, the IMT Studies Lucca, the Scuola Normale Superiore, and the University of Pisa.

In November 2017 started the second edition of the challenge.

The challenge was launched by means of the web sites SoBigData.eu, SoBigData.it as well as a dedicated Facebook page (www.facebook.com/tuscanchallenge). Presentation events have been organized in Pisa, Siena and Lucca involving the network of the innovation hubs. SMEs taking part in the challenge had to describe their project and the data they wish to analyse with the support of SoBigData.it Infrastructure, possibly adding to it all with a solution for developing an idea.

B.1.1 Tuscan Big Data Challenge: promotion and dissemination

The challenge has been promoted by using of the following means:

- 1) News on web sites related to SoBigData.it
- 2) News on web sites related to SoBigData.eu
- 3) Posts on twitter and Facebook (<https://www.facebook.com/tuscanchallenge>)
- 4) Mailing list available at the innovation hubs present in Tuscany
- 5) Press (local newspapers)
- 6) A road show where people from SoBigData.it meet the SMEs and presented the challenge.

Location	Date	People Involved	Number of Participants
Research to Business – Regione Toscana (Pisa)	18/12/2017	Viola Bachini, Beatrice Rapisarda, Salvatore Rinzivillo	40 (all from companies)
SpazioSiena (Siena)	06/12/2017	Angelo Facchini, Viola Bachini, Beatrice Rapisarda	30 (all from companies)

IMT School for Advanced Studies Lucca	13/12/2017	Angelo Facchini, Viola Bachini, Beatrice Rapisarda	10 from companies; 5 from institutions
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Figure B 1. Dissemination Events.

B.1.2 Tuscan Big Data Challenge: activities

The call has been launched in November 15th, 2017. In **January 2018** researchers of SoBigData.it selected 4 (out of 13) of the most interesting projects and started supporting for free the selected companies in the creation of a Proof of Concept. The selected companies operate in different sectors: energy, manufacturing, bank and finance, software and system engineering, e-commerce.

From **January 2018** the winning companies started working together with researchers from the SoBigData.it and started using the methodologies and software tools in the big-data analysis platform in the laboratory itself.

Each selected project has a total duration of two months (for a total of 1P/M), during which one or more researchers join a team providing the knowledge and the required ICT support to develop the activities. In line with the legal and ethical aspects related to data and algorithms use, and in accordance to the aims of the SoBigData Research Infrastructure, the researchers and the companies involved in the challenge signed of a confidentiality agreement (NDA) to protect information and data that the companies share with researchers.

B.1.2.1 Time schedule of the activities

- 15 November 2017 publication of the call
- 15 November / 31 December 2017: Submission of project proposals
- 2 January / 15 January 2018: stage of evaluation of proposals and selection of the winning projects
- February 2018 / September 2018: Development of the winning projects in collaboration with researchers from the SoBigData.it
- Winter 2018/2019: presentation of the results

B.1.2.2 Tuscan Big Data Challenge selection criteria

The scientific committee, composed by members of SoBigData.it Lab defined the following guidelines for the selection of the submitted projects:

- 1) Feasibility in the time span of 1 P/M
- 2) Coherence with SoBigData main topics
- 3) Scientific impact
- 4) Sector innovation
- 5) Relevance for the development of the applicant enterprise
- 6) Potential impact on Media
- 7) Sustainability of the project in the medium term

A score of 0-5 points has been assigned to each criterion, while the final ranking has been obtained by summing-up all the points assigned by the members of the committee.

B.1.3 Tuscan Big Data Challenge impact figures

During the dissemination period of the Challenge more than 200 SMEs have been contacted through mailing list and Facebook page, while about 30 SMEs have been directly involved in the road show during the three event organized.

B.1.3.1 Tuscan Big Data Challenge results

Participants: 13 Tuscan SMEs

Selected: 4

Type:

- Public administrations
- Life science
- Banking and financial services
- ICT
- Coworking services

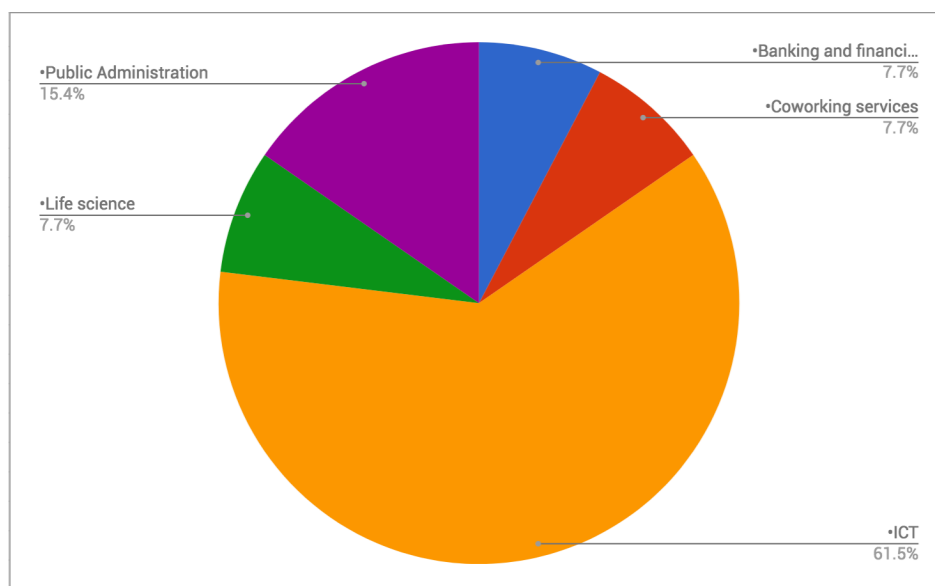


Figure B 2. Results of the second edition of the Tuscan Big Data Challenge.

B.1.3.2 Tuscan Big Data Challenge: person involved

The whole organization of the Tuscan Big Data Challenge has been undertaken by Beatrice Rapisarda (CNR) Viola Bachini (UNIFI) Angelo Facchini (IMT), with the supervision of Fosca Giannotti, (CNR) and Paolo Ferragina (UNIFI).