



*Computing Research & Education*

**Submission data for 2023 CORE conference ranking process  
Discovery Science**

Joao Gama

**Introductory Questions**

**Conference**

Title: Discovery Science

Acronym : DS

Rank: Unranked

**Requested Rank**

Rank: A

**Conference Details**

Month: October

Publisher: LNCS Springer

Bi-annual: False

Multiconference: False

Component in a multi-conference or umbrella event: False

Colocated with other events: False

Alternative content: False

**Proceedings Publishing Style**

Proceedings Publishing: series

Link to most recent proceedings: <https://link.springer.com/book/10.1007/978-3-031-18840-4>

Further details:

**Most Recent Years**

**Most Recent Year**

Year: 2022

URL: <https://ds2022.sciencesconf.org/>

Location: Montpellier, France

Papers submitted: 56

Papers published: 27

Acceptance rate: 48

Source for numbers: [ContactSteeringCommitteeso.dzeroski@ijs.si](mailto>ContactSteeringCommitteeso.dzeroski@ijs.si)

**General Chairs**

Name: Dino Ienco

Affiliation: INRAE, France

Gender: M

H Index: 27

GScholar url: <https://scholar.google.com/citations?user=C8zfH3kAAAAJ>

DBLP url: <https://dblp.org/pid/91/6423.html>

**Program Chairs**

Name: Pascal Poncelet  
Affiliation: University of Montpellier  
Gender: M  
H Index: 33  
GScholar url: <https://scholar.google.com/citations?user=HSZYSwsAAAAJ&hl=en>  
DBLP url: <https://dblp.org/pid/68/525.html>

### Second Most Recent Year

Year: 2021  
URL: <https://ds2021.cs.dal.ca/>  
Location: Halifax, Canada  
Papers submitted: 76  
Papers published: 15  
Acceptance rate: 20  
Source for numbers: [ContactSteeringCommitteesasozeroski@ijs.si](mailto:ContactSteeringCommitteesasozeroski@ijs.si)

### General Chairs

Name: Luis Torgo  
Affiliation: Dalhousie University  
Gender: M  
H Index: 36  
GScholar url: <https://scholar.google.com/citations?user=2vyIvbsAAAAJ>  
DBLP url: <https://dblp.org/pid/60/1153.html>

### Program Chairs

Name: Carlos Soares  
Affiliation: University of Porto  
Gender: M  
H Index: 34  
GScholar url: <https://scholar.google.com/citations?user=Lw7ojGsAAAAJ>  
DBLP url: <https://dblp.org/pid/50/4846.html>

### Third Most Recent Year

Year: 2020  
URL: <http://ds2020.csd.auth.gr/>  
Location: online  
Papers submitted: 76  
Papers published: 26  
Acceptance rate: 34  
Source for numbers: [ContactSteeringCommitteesasozeroski@ijs.si](mailto:ContactSteeringCommitteesasozeroski@ijs.si)

### General Chairs

Name: Yannis Manolopoulos  
Affiliation: Open University of Cyprus, Cyprus  
Gender: M  
H Index: 60  
GScholar url: <https://scholar.google.com/citations?user=2aX1MOAAAAAJ>  
DBLP url: <https://dblp.org/pid/m/YManolopoulos.html>

### Program Chairs

Name: Annalisa Appice  
Affiliation: University of Bari Aldo Moro, Italy  
Gender: F  
H Index: 30  
GScholar url: <https://scholar.google.com/citations?user=wkeu9oZX8-EC>  
DBLP url: <https://dblp.org/pid/63/5512.html>

### Policies

Chair Selection: The Chairs are selected by the steering committee. They are selected according to their contributions to the DS community and relevance of the scientific work.

No Policies.

### Program Committee

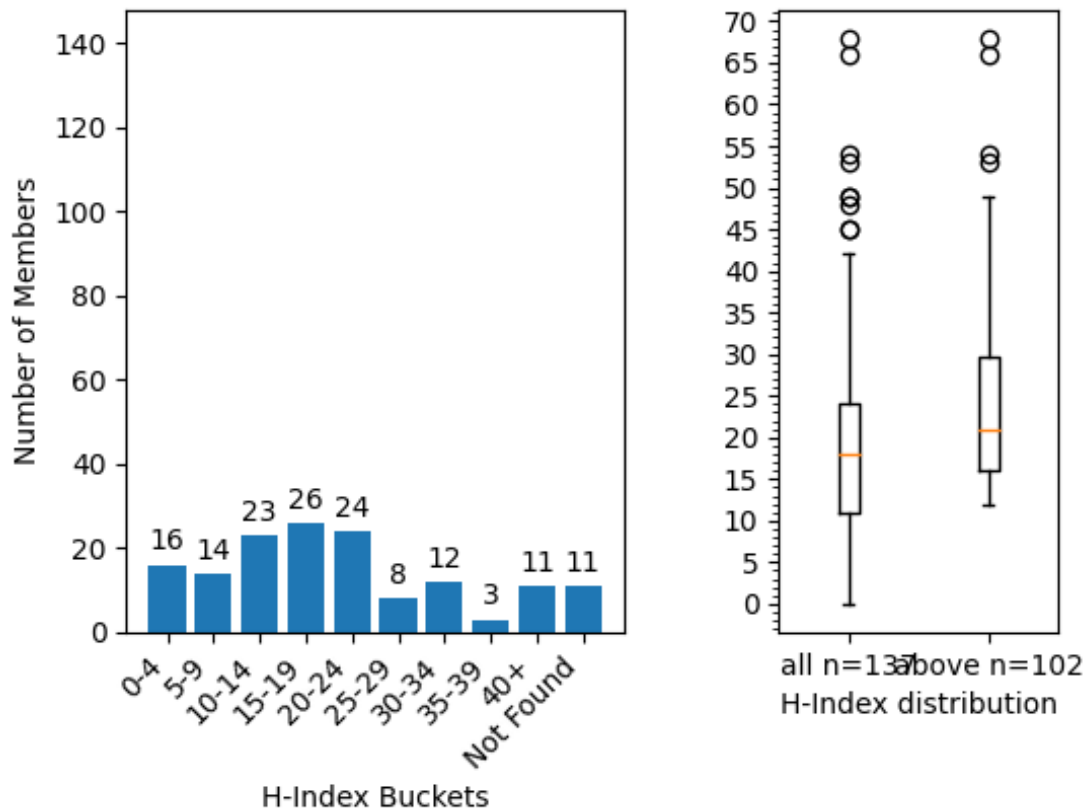
Link to pc: [https://ds2023.inesctec.pt/?page\\_id=87](https://ds2023.inesctec.pt/?page_id=87)

File: [http://portal.core.edu.au/core/media/2023/pc\\_members/DS23-PC-list\\_mPTgR9x.txt](http://portal.core.edu.au/core/media/2023/pc_members/DS23-PC-list_mPTgR9x.txt)

H-index plot: [http://portal.core.edu.au/core/media/2023/pc\\_graphs/higherrank\\_hindex\\_buckets\\_2204.png](http://portal.core.edu.au/core/media/2023/pc_graphs/higherrank_hindex_buckets_2204.png)

Information contained within these graphs is derived using the Elsevier Scopus Database 2023.

Scopus h-index is generally about 30% lower than Google Scholar h-index.



## Publishing of established researchers in the PC

[http://portal.core.edu.au/core/media/2023/conf\\_submissions\\_clean\\_spc/higherrank2204\\_spc\\_report.csv](http://portal.core.edu.au/core/media/2023/conf_submissions_clean_spc/higherrank2204_spc_report.csv)

**WPP Report:** [http://portal.core.edu.au/core/media/2023/wpp\\_reports/j3hRF17k.txt](http://portal.core.edu.au/core/media/2023/wpp_reports/j3hRF17k.txt)

### 2. International Conference on Discovery Science (DS)

Core Rank: Unranked

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This venue was published at 68 times by 29 of 84 individuals in the last 5+ years.

The individuals that publish at this venue are: Eyke Hullermeier(6), Johannes Furnkranz(5), Panagiotis Papapetrou(5), Carlos Soares(4), Hendrik Blockeel(4), Jaakko Hollmen(4), Martin Atzmueller(4), Michelangelo Ceci(4), Siegfried Nijssen(4), Anna Monreale(3), Dragi Kocev(3), Larisa N. Soldatova(3), Andrea Tagarelli(2), Annalisa Appice(2), Colin Bellinger(2), Dino Pedreschi(2), Donato Malerba(2), Myra Spiliopoulou(2), Ruggero G. Pensa(2), Bartosz Krawczyk(1), Bernhard Pfahringer(1), Dino Ienco(1), Gianluca Bontempi(1), Kai Puolamaki(1), Marko Robnik-Sikonja(1), Matteo Zignani(1), Mohamed Medhat Gaber(1), Mykola Pechenizkiy(1), Sabrina Gaito(1)

In 2018, there were 10 publications by 10 individuals: Bartosz Krawczyk, Carlos Soares, Dragi Kocev, Eyke Hullermeier, Hendrik Blockeel, Johannes Furnkranz, Marko Robnik-Sikonja, Martin Atzmueller, Mohamed Medhat Gaber, Siegfried Nijssen

In 2019, there were 20 publications by 16 individuals: Andrea Tagarelli, Carlos Soares, Colin Bellinger, Dino Ienco, Dragi Kocev, Eyke Hullermeier, Jaakko Hollmen, Johannes Furnkranz, Kai Puolamaki, Larisa N. Soldatova, Martin Atzmueller, Michelangelo Ceci, Mykola Pechenizkiy, Panagiotis Papapetrou, Ruggero G. Pensa, Siegfried Nijssen

In 2020, there were 11 publications by 9 individuals: Anna Monreale, Eyke Hullermeier, Hendrik Blockeel, Jaakko Hollmen, Johannes Furnkranz, Larisa N. Soldatova, Michelangelo Ceci, Myra Spiliopoulou, Siegfried Nijssen

In 2021, there were 14 publications by 11 individuals: Anna Monreale, Annalisa Appice, Colin Bellinger, Donato Malerba, Eyke Hullermeier, Gianluca Bontempi, Hendrik Blockeel, Johannes Furnkranz, Martin Atzmueller, Michelangelo Ceci, Panagiotis Papapetrou

In 2022, there were 13 publications by 12 individuals: Andrea Tagarelli, Bernhard Pfahringer, Dino Pedreschi, Jaakko Hollmen, Johannes Furnkranz, Martin Atzmueller, Matteo Zignani, Michelangelo Ceci, Myra Spiliopoulou, Panagiotis Papapetrou, Sabrina Gaito, Siegfried Nijssen

29 out of the 84 individuals published at this venue in 1 or more years

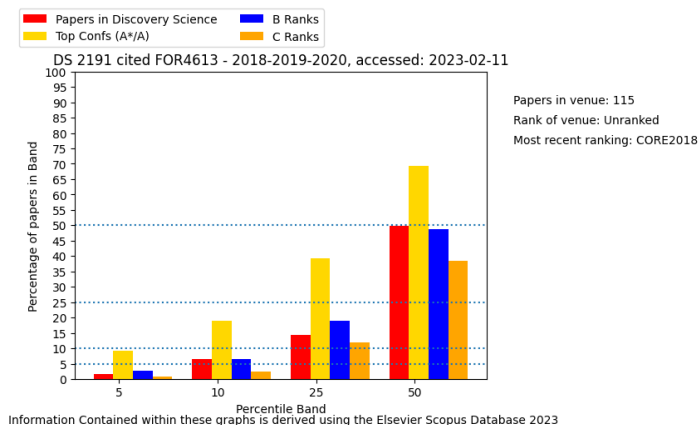
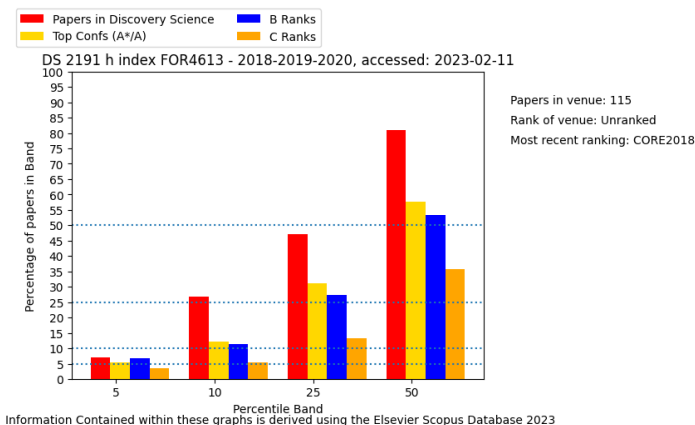
15 out of the 84 individuals published at this venue in 2 or more years

8 out of the 84 individuals published at this venue in 3 or more years

5 out of the 84 individuals published at this venue in 4 or more years

1 out of the 84 individuals published at this venue in 5 or more years

## Centile graphs of paper metrics



## Top People Involvement

name: Saso Dzeroski

h-index: 72

Google Scholar URL: [https://scholar.google.com/citations?user=\\_aIV-aEAAAJ&hl=en](https://scholar.google.com/citations?user=_aIV-aEAAAJ&hl=en)

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 7 Nr. associate editor: 3 Nr. prizes and awards: 2

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	1	2	0	2

Attendance: Almost always (>80% of the time)

name: João Gama

h-index: 69

Google Scholar URL: <https://scholar.google.com/citations?user=jjoTZfoAAAAJ&hl=en>

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 12 Nr. associate editor: 5 Nr. prizes and awards: 5

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
0	1	1	2	2

Attendance: Often (50-80% of the time)

name: Eyke Hüllermeier

h-index: 67

Google Scholar URL: <https://scholar.google.com/citations?hl=en&user=usVJeNN3xFAC>

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 16 Nr. associate editor: 3 Nr. prizes and awards: 5

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
0	1	2	0	1

Attendance: Often (50-80% of the time)

name: Albert Bifet

h-index: 50

Google Scholar URL: <https://scholar.google.com/citations?user=UYvAL8EAAAJ&hl=en>

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 12 Nr. associate editor: 3 Nr. prizes and awards: 5

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	1	2	0	0

Attendance: Often (50-80% of the time)

name: André Carlos Ponce de Leon Ferreira de Carvalho

h-index: 62

Google Scholar URL: [https://scholar.google.com.vn/citations?user=Jx\\_5GrgAAAAJ&hl=en](https://scholar.google.com.vn/citations?user=Jx_5GrgAAAAJ&hl=en)

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 7 Nr. associate editor: 6 Nr. prizes and awards: 9

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
0	0	0	1	1

Attendance: Sometimes (20-50% of the time)

name: Nathalie Japkowicz

h-index: 39

Google Scholar URL: <https://scholar.google.ca/citations?user=U884avUAAAAJ&hl=en>

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 3 Nr. associate editor: 4 Nr. prizes and awards: 2

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	4	1	0	0

Attendance: Often (50-80% of the time)

name: Dino Pedreschi

h-index: 63

Google Scholar URL: <https://scholar.google.com/citations?user=5efz6osAAAAJ&hl=en>

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 16 Nr. associate editor: 5 Nr. prizes and awards: 4

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
2	0	0	0	0

Attendance: Sometimes (20-50% of the time)

name: Indre Zliobaite

h-index: 35

Google Scholar URL: <https://scholar.google.com/citations?user=yyXBot4AAAAJ>

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 16 Nr. associate editor: 4 Nr. prizes and awards: 3

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	0	0	0	0

Attendance: Sometimes (20-50% of the time)

name: Jaakko Hollmén

h-index: 34

Google Scholar URL: <https://scholar.google.com/citations?user=PSxBcWwAAAAJ>

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 5 Nr. associate editor: 3 Nr. prizes and awards: 2

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
2	0	1	0	0

Attendance: Sometimes (20-50% of the time)

name: Martin Atzmueller

h-index: 37

Google Scholar URL: <https://scholar.google.com/citations?user=PSxBcWwAAAAJ>

Justification: (Numbers in the last 5 years) Nr. Keynote speaker: 6 Nr. associate editor: 5 Nr. prizes and awards: 4

Paper counts:

Most Recent:	Second most recent:	Third most recent:	Fourth most recent:	Fifth most recent:
1	1	0	0	1

Attendance: Sometimes (20-50% of the time)

## Area Leaders publishing

Method of selection: We selected the top-20 researchers accordingly to the number of citations in google scholar attending to the

keywords: Machine Learning, Data Mining, Data Sciences

Keyword: Machine Learning, Data Mining, Data Sciences

name	h-index	gscholar url
Geoffrey Hinton	177	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=JicYPdAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=JicYPdAAAAAJ</a>
Yoshua Bengio	220	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=kukAOLcAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=kukAOLcAAAAAJ</a>
Robert Tibshirani	172	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=ZpG_cJwAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=ZpG_cJwAAAAAJ</a>
Kaiming He	66	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=DhtAFkwAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=DhtAFkwAAAAAJ</a>
Ilya Sutskever	75	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=x04W_mAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=x04W_mAAAAAJ</a>
Andrew Zisserman	189	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=UZ5wscMAAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=UZ5wscMAAAAAAJ</a>
Ross Girshick	77	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=W8VIEZgAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=W8VIEZgAAAAAJ</a>
Trevor Hastie	143	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=tQVe-fAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=tQVe-fAAAAAJ</a>
Yann LeCun	140	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=WLN3QrAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=WLN3QrAAAAAJ</a>
Vapnik	98	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=vttegaJgAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=vttegaJgAAAAAJ</a>
Jiawei Han	196	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=Kv9AbjMAAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=Kv9AbjMAAAAAAJ</a>
Philip S. Yu	183	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=D0L1rOAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=D0L1rOAAAAAJ</a>
Sergey Senkin	178	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=UdqIdckAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=UdqIdckAAAAAJ</a>
Rakesh Agrawal	107	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=4XSG7v4AAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=4XSG7v4AAAAAJ</a>
Vipin Kumar	133	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=BnxU9TEAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=BnxU9TEAAAAAJ</a>
Jure Leskovec	134	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=Q_kKkIUAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=Q_kKkIUAAAAAJ</a>
Francisco Herrera	170	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=HULIk-QAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=HULIk-QAAAAAJ</a>
Ian H. Witten	85	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=BSFDgW0AAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=BSFDgW0AAAAAJ</a>
Jeffrey Ullman	112	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=wUJ2bXgAAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=wUJ2bXgAAAAAJ</a>
Francisco Matorras	287	<a href="https://scholar.google.com/citations?hl=pt-PT&amp;user=q_wYjF8AAAAAJ">https://scholar.google.com/citations?hl=pt-PT&amp;user=q_wYjF8AAAAAJ</a>

**WPP Report:** [http://portal.core.edu.au/core/media/2023/wpp\\_reports/f7XvmkTb.txt](http://portal.core.edu.au/core/media/2023/wpp_reports/f7XvmkTb.txt)

Error: dis not found in WPP report

### Additional Data

#### Google Scholar Data

Sub-category url: [https://scholar.google.com.au/citations?view\\_op=top\\_venues&hl=en&vq=eng\\_datamininganalysis](https://scholar.google.com.au/citations?view_op=top_venues&hl=en&vq=eng_datamininganalysis)

Position in sub-category: 20+

h5 index of 20th item in category: 29

No Google Scholar h5 index available for this conference

Potential reason for no h5 index: The 20th place of this ranking is occupied by the PAKDD conference which is a very mature conference that encompass a very high number of researchers of the area. We are working to include DS in such prestige ranking in the near future.

#### Relationship to similar conferences

Partial ordering of similar conferences in the area, with argument as to where the current venue fits and why:

Intelligent Data Analysis -IDA- is a conference with similar dimension as DS. It focus on more practical applications.

European conference on AI - ECAI, is a generic conference of AI, covering all the areas of AI.

Internacional Conference on Computational Science - ICCS. Covers all topics in computer science.

IEEE Symposium on Computational Intelligence and Data Mining, focusing on topics related to computational intelligence field.

IEEE Symposium on Computational Intelligence and Data Mining -ADMA- Similarly to IDA, ADMA is more focused on practical applications.

Intelligent Data Analysis -IDA- is a conference with similar dimension as DS. It focus on more practical applications.

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IEEE Symposium on Computational Intelligence and Data Mining, focusing on topics related to computational intelligence field.

IEEE Symposium on Computational Intelligence and Data Mining -ADMA- Similarly to IDA, ADMA is more focused on practical applications.

DSAA- IEEE International Conference on Data Science and Advanced Analytics is a conference with strong interdisciplinary with data analytics topics similar to DS conference.

However, the focus of DS is more on scientific discovery, including data mining, and cognitive science, psychology, neurosciences, brain, etc.

#### Other Information

#### Attachments

N/A

#### Proposers

First name: Joao

Last name: Gama

Affiliation: INESC TEC - LIAAD

Email: [jgama@fep.up.pt](mailto:jgama@fep.up.pt)

**Submitted By**

Name: Gama João

Email: [jgama@fep.up.pt](mailto:jgama@fep.up.pt)