

Joint Conference on Data Science 2018

Deepening the role of data science as a transformational force for innovation, discovery, and societal benefit

Date: 22. -23. May 2018

Website: <http://jcds2018.ftk.de>

Location: Edinburgh, UK

The aim of the Joint Conference on Data Science 2018 (JCDS18) is to bring together academics, policy-makers, and business people passionate about the emergent field of data science as a force for strategic transformation in an academic and professional context. JCDS18 arises out of a series of successful predecessor conferences; the JCDS series has been created to foster a vital exchange between parties from industry and academia interested in the wide field of data science. Essentially, the increasing availability of vast libraries of digitised information influences the ways in which we comprehend and analyse our environment, and realise businesses for our societal benefit. In this situation, data science creates a transformational force with impact on current innovation potential in industry and academia. Given this transformational potential, it is inevitable that new teaching activities will play a significant role in realising this potential.

JCDS18 will be the first conference of this annual series of international conferences. The guiding theme of the conference series is *deepening the role of data science as a transformational force for innovation, discovery, and societal benefit*. JCDS18 therefore takes up topics that support this grand challenge, that are based around recent data science research and innovation trends besides teaching and training. The conference will realise this concern in an integrated programme of lightning workshops and scientific/technical conference tracks, invited talks from renowned speakers, along with network events, as well as accompanying demo sessions. Essentially, the conference will focus on two tightly connected but distinct subject areas:

Establishing the profession of a Data Scientist is the consequent conclusion from the present situation and JCDS18 will have a focus on the acquisition of skills and competences that individuals need in the new data science era, and how best to address the growing demand from organisations for individuals at all levels to be suitably equipped to thrive in the digitised economy. The challenge is that both work and the research environment are transforming into interdisciplinary environments, so data-related skillsets have to be harmonised in order to foster collaboration.

Data Science is an interdisciplinary scientific and technical research and development field that amalgamates techniques and approaches for efficient and effective data management, integration, analysis, visualisation, and interaction with vast amounts of data, all as a critical prerequisite for a successful digitised economy. JCDS18 will therefore have a focus on the demonstration, presentation and discussion of innovative research and development results from related topics around machine learning, information visualisation, big data management, analysis, reproducibility, and ethics.

Topics of Interest

Topics of interest include, but are not limited to support for Data Science components, tools and applications solutions, in the following areas:

- Big Data Management and Analytics
- Data Mining and Machine Learning
- Visual Analytics and Information Visualisation
- Reproducibility, Archival, and Digital Preservation
- Ethics and Legal Frameworks
- Education and Training, Continuous Professional Education

Committee

Conference Co-Chairs

- Wouter Los, Universiteit van Amsterdam (NL)
- Matthias Hemmje, University of Hagen (DE)

PC Co-Chairs

- Dominic Heutelbeck, Research Institute for Telecommunications and Cooperation (DE)
- Yuri Demchenko, Universiteit van Amsterdam (NL)

Workshop & Tutorial Co-Chairs

- Adam Belloum, Universiteit van Amsterdam (NL)
- Tomasz Wiktorski, Universitetet I Stavanger (NO)

Industrial Co-Chairs

- Andrea Manieri, Engineering Ingegneria Informatica Spa Sapienza Università di Roma (IT)
- Ruben Riestra, INMARK (ES)

Organisation Chairs

- Steve Brewer, University of Southampton (UK)
- Jana Mertens, Research Institute for Telecommunications and Cooperation (DE)

Scientific and Technical Poster & Demo Co-Chairs

- Felix Engel, University of Hagen (DE)
- Marco Bornschlegl, University of Hagen (DE)

Scientific and Technical Program Committee Members

- Paul Walsh, Cork Institute of Technology (IRL)
- Jane Zheng, Ulster University (UK)
- Haiying Wang, Ulster University (UK)
- Tiziana Catarci, Sapienza Università di Roma (IT)
- Massimo Mecella, Sapienza Università di Roma (IT)
- Yuri Demchenko, Universiteit van Amsterdam (NL)
- Wouter Los, Universiteit van Amsterdam (NL)
- Adam Belloum, Universiteit van Amsterdam (NL)
- Paolo Buono, University of Bari Aldo Moro (IT)
- Antonio Piccinno, University of Bari Aldo Moro (IT)
- Paolo Bouquet, OKKAM srl (IT)
- Andrea Molinari, University of Trento (IT)
- Ingo Frommholz, University of Bedfordshire (UK)

Submission of Contributions

Lightning Workshops, Tutorials, and Demos

We invite lightning workshop, tutorials, and demo proposals (max. 6 pages) from researchers and practitioners working in the area of Data Science.

Lightning workshop, tutorials proposals must at least provide details about the foreseen content, scope and a general description of the programme. Lightning workshops should be planned for about two hours. All submitted proposals will be reviewed by the Programme Committee Members. If you expect to contribute we recommend to register at your earliest convenience please send an email to: felix.engel(AT)fernuni-hagen.de

Demo proposals must at least provide details about the foreseen content and focus, required technical and non-technical infrastructure and designated audience. All submitted proposals will be reviewed by the Programme Committee Members. If you expect to contribute we recommend to register at your earliest convenience please send an email to: felix.engel(AT)fernuni-hagen.de

Important Dates

- Workshop, tutorial, and demo proposal submission deadline: 18.02.2018
- Notification of acceptance: 04.03.2018

Scientific and Technical Papers

We invite scientific and technical contributions from researchers, developers, and practitioners working in the area of Data Science. We invite the submission of full papers (max. 12 pages) in the scientific and technical conference tracks. Instructions for authors could be found on: <http://www.springer.com/gb/computer-science/lncs/conference-proceedings-guidelines>. We recommend to register at your earliest convenience please send an email to felix.engel(AT)fernuni.hagen.de

All contributions will be extensively reviewed by at least three independent reviewers. EasyChair will be used as submission system.

Important Dates

- Papers submission deadline: 18.03.2018
- Notification of acceptance: 16.04.2018
- Submission deadline for camera-ready contributions: 04.05.2018

Conference Proceedings

All scientific and technical conference contributions will be published in a special issue of *Lecture Notes in Computer Science* (LNCS) by Springer. More information about Springer's LNCS series can be found on: <http://www.springer.com/gb/computer-science/lncs>.