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#### Actions

**On-line Registration**  
[Registration Fees](#)  
[Deadlines and Policies](#)

#### Submit Paper

[Guidelines](#)  
[Templates](#)  
[Glossary](#)

#### Author's Login

**Reviewer's Login**  
[Ethics of Review](#)

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##### Conference Details

[Important Dates](#)  
[Program Committee](#)  
[Event Chairs](#)  
[Keynote Lectures](#)  
[Best Paper Awards](#)

##### Satellite Events

[Workshops](#)  
[Special Sessions](#)  
[Tutorials](#)  
[Demos](#)  
[Panels](#)  
[Doctoral Consortium](#)  
[Open Communications](#)  
[Industrial Track](#)

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[Academic Partners](#)  
[Industrial Partners](#)  
[Institutional Partners](#)  
[Media Partners](#)  
[Partner Events](#)  
[Publication Partners](#)

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[Events](#)  
[Abstracts](#)  
[Invited Speakers](#)  
[Awards](#)  
[Books Published](#)

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[Scope](#) | [Conference Areas](#) | [Keynote Lectures](#) | [Paper Submission](#)  
[Publications](#) | [Important Dates](#) | [Secretariat](#) | [Venue](#)  
[Conference Chair](#) | [Program Chair](#) | [Program Committee](#)

DATA is sponsored by INSTICC – Institute for Systems and Technologies of Information, Control and Communication

### SCOPE

The purpose of the 9th International Conference on Data Science, Technology and Applications (DATA) is to bring together researchers, engineers and practitioners interested on databases, big data, data mining, data management, data security and other aspects of information systems and technology involving advanced applications of data.

Papers describing advanced methodologies, prototypes, systems, tools and techniques and general survey papers indicating future directions are also encouraged. Papers describing original work are invited in any of the areas listed. Accepted papers, presented at the conference by one of the authors, will be published in the conference proceedings. Acceptance will be based on quality, relevance and originality. Both full research papers and work-in-progress are welcome. There will be both oral and poster sessions.

Special sessions, dedicated to case-studies and commercial presentations, as well as demos or tutorials dedicated to technical/scientific topics are also envisaged: companies interested in presenting their products/methodologies or researchers interested in holding a tutorial, workshop or special session are invited to contact the conference secretariat or visit the conference website.

### CONFERENCE AREAS

Each of these topic areas is expanded below but the sub-topics list is not exhaustive. Papers may address one or more of the listed sub-topics, although authors should not feel limited by them. Unlisted but related sub-topics are also acceptable, provided they fit in one of the following main topic areas:

1. BUSINESS ANALYTICS
2. DATA SCIENCE
3. DATA MANAGEMENT AND QUALITY
4. BIG DATA
5. DATABASES AND DATA SECURITY

#### AREA 1: BUSINESS ANALYTICS

- Business Intelligence
- Statistics Exploratory Data Analysis
- Text Analytics
- Web Analytics
- Change Detection
- Data Analytics
- Data Warehouse Management
- Decision Support Systems
- Dimensional Modelling
- Information Integration
- Information Retrieval
- Semi-Structured and Unstructured Data
- Data Governance

#### AREA 2: DATA SCIENCE

- Data Fusion
- Pattern Recognition
- Predictive Modelling
- Support Vector Machines
- Data Science
- Data Mining
- Deep Learning
- Evolutionary Computing and Optimization
- Feature Selection
- Fuzzy Computing
- Hybrid Methods
- Neural Network Applications
- Process Mining
- Granular Computing

#### AREA 3: DATA MANAGEMENT AND QUALITY

- Architectural Concepts
- Mobile Data Management
- Modeling and Managing Large Data Systems
- Open Data
- Organizational Concepts and Best Practices
- Smart Cities and Urban Data Analytics
- Transparency in Research Data
- City Data Management
- Data and Information Quality
- Data Management for Analytics
- Data Modeling and Visualization
- Data Structures and Data Management Algorithms
- Data Virtualization
- Industry 4.0
- Management of Sensor Data
- Linked Data
- Semantic Web Technologies for Data Management

#### AREA 4: BIG DATA

- Big Data Applications
- New Computational Models for Big Data
- New Data Standards
- Social Data Analytics
- Social Web Search and Mining
- Big Data as a Service
- Big Data Infrastructure
- Big Data Search and Mining
- Big Data Security, Privacy and Trust
- Cloud/Grid/Stream Computing for Big Data

- Data and Information Quality for Big Data
- Deep Learning and Big Data
- Information Visualization
- Edge Computing
- In-Network Data Processing
- Energy-Efficient Computing
- In-Memory Databases

#### AREA 5: DATABASES AND DATA SECURITY

- Data Integrity
- WWW and Databases
- Data Privacy and Security
- Database Architecture and Performance
- Large Scale Databases
- Mobile Databases
- NoSQL Databases
- Object-Oriented Database Systems
- Open Source Databases
- Query Processing and Optimization

#### KEYNOTE SPEAKERS

**Wil van der Aalst**, RWTH Aachen University, Germany  
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#### PAPER SUBMISSION

Authors should submit a paper in English, carefully checked for correct grammar and spelling, addressing one or several of the conference areas or topics. Each paper should clearly indicate the nature of its technical/scientific contribution, and the problems, domains or environments to which it is applicable. To facilitate the double-blind paper evaluation method, authors are kindly requested to produce and provide the paper WITHOUT any reference to any of the authors, including the authors' personal details, the acknowledgments section of the paper and any other reference that may disclose the authors' identity.

Only original papers should be submitted. Authors are advised to read INSTICC's ethical norms regarding plagiarism and self-plagiarism thoroughly before submitting and must make sure that their submissions do not substantially overlap work which has been published elsewhere or simultaneously submitted to a journal or another conference with proceedings. Papers that contain any form of plagiarism will be rejected without reviews.

Authors can submit their work in the form of a Regular Paper, representing completed and validated research, or as a Position Paper, portraying a short report of work in progress or an arguable opinion about an issue discussing ideas, facts, situations, methods, procedures or results of scientific research focused on one of the conference topic areas. All papers must be submitted through the online submission platform PRIMORIS and should follow the instructions and templates that can be found under Guidelines and Templates. After the paper submission has been successfully completed, authors will receive an automatic confirmation e-mail.



#### PUBLICATIONS

All accepted papers will be published in the conference proceedings, under an ISBN reference, on paper and on digital support. SCITEPRESS is a member of CrossRef (<http://www.crossref.org/>) and every paper on our digital library is given a DOI (Digital Object Identifier).

The proceedings will be submitted for indexation by Thomson Reuters Conference Proceedings Citation Index (CPCI/ISI), DBLP, EI (Elsevier Engineering Village Index), Scopus, Semantic Scholar, Google Scholar and Microsoft Academic.

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**DATA Secretariat**  
 Address: Avenida de S. Francisco Xavier, Lote 7 Cv. C  
 2900-616 Setúbal - Portugal  
 Tel.: +351 265 520 185  
 Fax: +351 265 520 186  
 e-mail: [data.secretariat@insticc.org](mailto:data.secretariat@insticc.org)  
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