



## CALL FOR PAPERS

**LATE BREAKING PAPERS, POSITION PAPERS, ABSTRACTS, POSTERS**

**Paper Submission Deadline (Extended): June 20, 2019**

## The 2019 (15th) International Conference on Data Science (ICDATA)

(former International Conference on Data Mining, DMIN;  
merged with ABDA, Int. Conf. on Advances on Big Data Analytics)

<https://icdata.org>

July 29-August 1, 2019, Luxor (MGM), Las Vegas, USA

Part of CSCE'18

<http://www.americancse.org/events/csce2019>

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This announcement is ONLY for those who MISSED the opportunity to submit their papers in response to earlier "Call For Papers". Therefore, authors who have ALREADY submitted papers in response to earlier "Call For Papers" should IGNORE this announcement. (Those who have been notified that their papers have been accepted, should still follow the instructions that were emailed to them; including meeting the deadlines mentioned in the notifications that were sent to them. Those who have not yet received a notification, will soon receive one).

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You are invited to submit a "LATE BREAKING PAPER" (LBP), "POSITION PAPER" (PP), or "ABSTRACT/POSTER PAPER" (APP) for consideration. All accepted papers will be published in printed conference books/proceedings (each with a unique international ISBN number) and will also be made available online. The proceedings will be indexed in science citation databases that track citation frequency/data. In addition, like prior years, extended versions of selected papers (about 40%) will appear in journals and edited research books; publishers include, Springer, Elsevier, BMC, and others). The Congress is composed of a number of tracks (joint-conferences, tutorials, sessions, workshops, poster and panel discussions); all will be held simultaneously, same location and dates: July 29-August 1, 2019. The complete list of CSCE joint conferences can be found [here](#). ICDATA is part of the Congress.

## IMPORTANT DATES for LBP, PP, APP:

- June 20, 2019: [Submission of papers](#)
- LATE BREAKING PAPERS (max. 7 pages)  
POSITION PAPERS (max. 4 pages)  
ABSTRACT/POSTER PAPERS (max. 2 pages)
- June 27, 2019: Notification of acceptance (+/- two days)
- July 07, 2019: Registration due  
<https://americancse.org/events/csce2019/registration>
- July 20, 2019: Final Camera-Ready paper due  
The final papers should be uploaded to the publication portal - the URL of the portal appears in the notification of acceptance that such authors will receive.
- July 29-Aug 2, 2019: The 2019 International Conference on Data Science ([ICDATA'19](#))  
World Congress in Computer Science, Computer Engineering, and Applied Computing (CSCE'19: Las Vegas, USA); Including all affiliated federated/joint conferences  
<http://www.americancse.org/events/csce2019>

**SCOPE:** Submitted papers should be related to Data Mining, Data Science, Machine Learning, Big Data and similar topics. Please note, that the formerly held Conference on Advances in Big Data Analytics (ABDA) is now part of the ICDATA.

Topics of interest include, but are not limited to, the following:

- **Data Mining/Machine Learning Tasks**
  - Regression/Classification
  - Time series forecasting
  - Segmentation/Clustering/Association
  - Deviation and outlier detection
  - Explorative and visual data mining
  - Web mining
  - Mining text and semi-structured data
  - Temporal and spatial data mining
  - Multimedia mining (audio/video)
  - Mining "big data"
  - Others
  
- **Data Mining Algorithms**
  - Artificial neural networks / Deep Learning
  - Fuzzy logic and rough sets
  - Decision trees/rule learners
  - Support vector machines
  - Evolutionary computation/meta heuristics
  - Statistical methods
  - Collaborative filtering
  - Case based reasoning
  - Link and sequence analysis
  - Ensembles/committee approaches
  - Others

- **Data Mining Integration**
  - Mining large scale data/big data
  - Distributed and grid based data mining
  - Data and knowledge representation
  - Data warehousing and OLAP integration
  - Integration of prior/domain knowledge
  - Metadata and ontologies
  - Agent technologies for data mining
  - Legal and social aspects of data mining
  
- **Data Mining Process**
  - Data cleaning and preparation
  - Feature selection and transformation
  - Attribute discretisation and encoding
  - Sampling and rebalancing
  - Missing value imputation
  - Model selection/assessment and comparison
  - Induction principles
  - Model interpretation
  - Others
  
- **Data Mining Applications**
  - Bioinformatics
  - Medicine Data Mining
  - Business/Corporate/Industrial Data Mining
  - Credit Scoring
  - Direct Marketing
  - Database Marketing
  - Engineering Mining
  - Military Data Mining
  - Security Data Mining
  - Social Science Mining
  - Data Mining in Logistics
  - Others

We particularly encourage submissions of industrial applications and case studies from practitioners. These will not be evaluated using solely theoretical research criteria, but will take general interest and presentation into consideration.

- **Data Mining Software**
  - All aspects, modules, frameworks
  
- **Alternative and additional examples of possible topics include:**
  - Data Mining for Business Intelligence
  - Emerging technologies in data mining
  - Big Data
  - Computational performance issues in data mining
  - Data mining in usability
  - Advanced prediction modelling using data mining
  - Data mining and national security
  - Data mining tools
  - Data analysis
  - Data preparation techniques (selection, transformation, and preprocessing)
  - Information extraction methodologies
  - Clustering algorithms used in data mining
  - Genetic algorithms and categorization techniques used in data mining

- Data and information integration
- Microarray design and analysis
- Privacy-preserving data mining
- Active data mining
- Statistical methods used in data mining
- Multidimensional data
- Case studies and prototypes
- Automatic data cleaning
- Data visualization
- Theory and practice - knowledge representation and discovery
- Knowledge Discovery in Databases (KDD)
- Uncertainty management
- Data reduction methods
- Data engineering
- Content mining
- Indexing schemes
- Information retrieval
- Metadata use and management
- Multidimensional query languages and query optimization
- Multimedia information systems
- Search engine query processing
- Pattern mining
- Applications (examples: data mining in education, marketing, finance and financial services, business applications, medicine, bioinformatics, biological sciences, science and technology, industry and government, ...)
  
- **Algorithms for Big Data**
  - Data and Information Fusion
  - Algorithms (including Scalable methods)
  - Natural Language Processing
  - Signal Processing
  - Simulation and Modeling
  - Data-Intensive Computing
  - Parallel Algorithms
  - Testing Methods
  - Multidimensional Big Data
  - Multilinear Subspace Learning
  - Sampling Methodologies
  - Streaming
  - Others
  
- **Big Data Fundamentals**
  - Novel Computational Methodologies
  - Algorithms for Enhancing Data Quality
  - Models and Frameworks for Big Data
  - Graph Algorithms and Big Data
  - Computational Science
  - Computational Intelligence
  - Others

- **Infrastructures for Big Data**
  - Cloud Based Infrastructures (applications, storage & computing resources)
  - Grid and Stream Computing for Big Data
  - High Performance Computing, Including Parallel & Distributed Processing
  - Autonomic Computing
  - Cyber-infrastructures and System Architectures
  - Programming Models and Environments to Support Big Data
  - Software and Tools for Big Data
  - Big Data Open Platforms
  - Emerging Architectural Frameworks for Big Data
  - Paradigms and Models for Big Data beyond Hadoop/MapReduce, ...
  - Others
  
- **Big Data Management and Frameworks**
  - Database and Web Applications
  - Federated Database Systems
  - Distributed Database Systems
  - Distributed File Systems
  - Distributed Storage Systems
  - Knowledge Management and Engineering
  - Massively Parallel Processing (MPP) Databases
  - Novel Data Models
  - Data Preservation and Provenance
  - Data Protection Methods
  - Data Integrity and Privacy Standards and Policies
  - Data Science
  - Novel Data Management Methods
  - Crowdsourcing
  - Stream Data Management
  - Scientific Data Management
  - Others
  
- **Big Data Search**
  - Multimedia and Big Data
  - Social Networks
  - Data Science
  - Web Search and Information Extraction
  - Scalable Search Architectures
  - Cleaning Big Data (noise reduction), Acquisition & Integration
  - Visualization Methods for Search
  - Time Series Analysis
  - Recommendation Systems
  - Graph Based Search and Similar Technologies
  - Others
  
- **Privacy in the Era of Big Data**
  - Cryptography
  - Threat Detection Using Big Data Analytics
  - Privacy Threats of Big Data
  - Privacy Preserving Big Data Collection
  - Intrusion Detection
  - Socio-economical Aspect of Big Data in the Context of Privacy and Security
  - Others
  
- **Applications of Big Data**
  - Big Data as a Service
  - Big Data Analytics in e-Government and Society

- Applications in Science, Engineering, Healthcare, Visualization, Business, Education, Security, Humanities, Bioinformatics, Health Informatics, Medicine, Finance, Law, Transportation, Retailing, Telecommunication, all Search-based applications, ...
- Others

For real-world applications, please consider to submit to the Special Session on Special Session on Real-World Data Mining Applications, Challenges, and Perspectives

### **SUBMISSION OF PAPERS FOR EVALUATION:**

Prospective authors are invited to submit their papers by uploading them to the ICDATA evaluation web site via <https://icdata.confmaster.net/> according to the info on <https://icdatascience.org/draft-submission-lbp-pp-app-and-guidelines/>.

Submissions must be uploaded by the due date (see IMPORTANT DATES) and must be in pdf format (7 pages for Late Breaking Papers; 4 pages for Position Papers; 2 pages for Abstract/Poster Papers - the number of pages include all figures, tables, and references).

For typesetting etc. please have a look at the ICDATA website (Submission – Paper Submission Guidelines). Later, the authors of accepted papers will be asked to upload their final paper on a different system organized by CSCE. Papers must not have been previously published or currently submitted for publication elsewhere.

The first page of the paper should include the followings:

- Title of the paper
- Name, affiliation, postal address, and email address of each author (identify the name of the Contact Author)
- Abstract (between 100 and 120 words)
- A maximum of 5 topical keywords that would best represent the work described in the paper
- While submitting, choose your paper type as "LBP - Late Breaking Paper", "PP - Position Paper", or "APP - Abstract/Poster Paper".
- The actual text of the paper can start from the first page (space permitting).

### **Type of Submissions/Papers:**

- **LATE BREAKING PAPERS (LBP):** describe late-breaking/recent developments in the field. The maximum number of pages is 7 (two-column IEEE style) and the author will be given the opportunity to present the paper in a formal session (if the paper is accepted).
- **POSITION PAPERS (PP):** enable discussions on emerging topics without the experimentation normally present in an academic paper. Commonly, such papers will substantiate the opinions or positions put forward with evidence from an extensive objective discussion of the topic. The maximum number of pages is 4 (two-column IEEE style) and the author will be given the opportunity to present the paper in a formal session (if the paper is accepted).
- **ABSTRACT/POSTER PAPERS (APP):** describe research roadmaps (similar to PhD plan or PhD prospectus). The maximum number of pages is 2 (two-column IEEE style) pages and the author will be given the opportunity to present the paper in a discussion/poster session (if the paper is accepted).

Authors are to conform to the common CODE OF ETHICS FOR AUTHORS (The document for the Code of Ethics is part of the paper submission guidelines).

Each paper will be peer-reviewed by at least two experts in the field for originality, significance, clarity, impact, and soundness. In cases of contradictory recommendations, a member of the conference program committee would be charged to make the final decision (accept/reject); often, this would involve seeking help from additional referees. Papers whose authors include a member of the conference program committee will be evaluated using the double-blinded review process. (Essay/philosophical papers will not be refereed but may be considered for discussion/panels).

The proceedings will be published in printed conference books (ISBN) and will also be made available online. The printed proceedings/books will be available for distribution on site at the conference. The proceedings will be indexed in science citation databases that track citation frequency/data for each published paper.

### **SPECIAL SESSIONS:**

Please note that two Special Sessions are offered for ICDATA'19:

- 1) Real-World Data Mining & Data Science Applications, Challenges, and Perspectives
- 2) Data Science for Cybersecurity

Please have a look at the [ICDATA website](#).

### **GENERAL INFORMATION:**

Please have a look at the [ICDATA website](#) and the CSCE website.

**CONTACT:** Inquiries should be sent to the [ICDATA'19 Conference Chair](#) or CSCE'19 Conference Secretariat: [cs@american-cse.org](mailto:cs@american-cse.org)