Call for papers

IEEE Reconciling Data Analytics, Automation, Privacy, and Security: A Big Data Challenge (RDAAPS) 2021 conference

http://rdaaps.com/conferences/rdaaps21/

May 17 – 19, 2021, McMaster University, Hamilton, ON, CANADA

IEEE RDAAPS is the first annual international conference on research in the broadly defined area of data analytics. It brings together researchers from academia, industry, and the public sector to present and discuss various aspects of data analytics, including privacy, security, and automation. This venue is meant to bring together stakeholders whose interests lie at the interface of these concerns, providing a platform for integrating the needs of industry with state-of-the-art scientific advancements, and inspiring original research on solving enterprise data challenges. IEEE RDAAPS seeks papers presenting original research in the areas including, but not limited to:

Big Data Analytics for Decision Making
- New models and algorithms for data analytics
- Scalable data analytics
- Optimization methods in data analytics
- Theoretical analysis of data systems
- Analytical reasoning systems
- Decision making under uncertainty
- Learning systems for data analytics
- Large-scale text, speech, image, or graph processing systems

Accountable Data Analytics
- Privacy-aware data analytics
- Fairness in data analytics
- Interpretable and transparent data analytics
- Data analytics incorporating legal and ethical factors

Strings in Data Analytics
- Patterns in Big Data
- Data compression
- Bioinformatics
- Algorithms and data structures for string processing
- Useful data structures for Big Data
- Data structures residing on secondary storage

Security in Data Analysis
- Traceability of decision making
- Models for forecasting cyber-attacks and measuring impact
- Data usage in mounting security threats
- Data analytics for better situational awareness

Domain knowledge modelling and generation
- Novel ontology representations
- Scalability of domain-based reasoning on big data
- Modelling and analyzing unstructured data sets

Automation for data analytics, security, and privacy in manufacturing
- Application of data analysis in manufacturing
- Big data in Industry 4.0
- Privacy and security in manufacturing

Challenges of automation of data analytic processes
- Case studies of the automation of data analytics processes
- Architecture for data analytics and security
- Built-in privacy and security in data analytics automation

Submission instructions:

Successful industry papers will address real research challenges through analysis, design, measurement, and deployment of data systems. The program committee will evaluate each paper using metrics that are appropriate for the topic area. All submissions must describe original ideas, not published or currently under review for another conference or journal. The industry papers are short papers (limited to 4 pages) that present new problems and challenges to the existing assumptions and emerging applications. These papers will be reviewed by the program committee and if selected, will be published in the IEEE conference proceedings.

Submissions must follow the [formatting guidelines](#) of IEEE proceedings, and be submitted electronically as a PDF file through [EasyChair](#). Submissions not adhering to the specified format and length may be rejected immediately.

The submitted industry papers can include up to 4 pages in IEEE format, including references, appendices, and figures. The title of these papers must be started with "**Challenge**:" prefix. **Publication:**

All accepted papers will be published in the **IEEE conference proceeding**.

Important dates:

- **Deadline for full paper submission: December 21st, 2020**
- **Notification to authors: February 22nd, 2021**
- **Deadline for camera ready version: March 15th, 2021**

We look forward to receiving your submissions!

Best regards,

General Chairs
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