

8th Global TechMining Conference

Data Science, TechMining, and Innovation

September 11, 2018

Leiden, The Netherlands

Call for Papers

submissions due April 15, 2018

In conjunction with the [23rd International Science, Technology, and Innovation Indicators Conference](#) on [September 12-14th](#), the [VP Institute](#) is sponsoring the **8th Global TechMining Conference, September 11th**. Tech Mining, a special form of “Big Data” analytics, aims to generate practical intelligence using bibliometric and text-mining software (e.g., VantagePoint, TDA) as well as other analytical & visualization applications for analyses of Science, Technology & Innovation (**ST&I**) information resources. Management and policy target uses include Competitive Technical Intelligence (**CTI**), and university, government, and industry research management (enriching grant applications, scoping projects, avoiding redundant research, and assessing R&D effectiveness). The goal of the conference is to **ENGAGE** cross-disciplinary networks of analysts, software specialists, researchers, policymakers, and managers to **ADVANCE** the use of textual information in multiple science, technology, and business development fields.

The conference Program Committee is pleased to announce the journal **IEEE Transactions on Engineering Management** will be accepting full papers written from GTM2018 submissions for consideration in a **special issue on TechMining**. The conference program will address key *CHALLENGES* in:

- A. ***Maximizing potential of traditional and novel text data: Tapping vital traits while minding limitations and matching analytical aims.*** Data topics of interest include:
 - resolving data hygiene issues generated by multiple sources
 - ways to address newer data sources (e.g., web scraping, social media cumulations)
 - transitioning from database mining to real-time streaming text analytics
 - data structures and lattices
- B. ***Advancing and integrating methods.*** Topics of interest include:
 - tracking emergence by extracting *topical* content via advanced natural language processing, term clumping, topic modelling, etc.
 - ways to demonstrate multi-dimensional indicators of R&D & innovation activity
 - means to combine quantitative and qualitative approaches in practical case applications
 - algorithms for identification of emergence (of technologies and inception of notable innovations)
 - discovering the higher-level properties of (complex) social networks
- C. ***Translating analyses to useful intelligence: Informative indicators and compelling visualizations.***
 - case studies that offer testable projections (specific, explicit) to enable future revisiting to validate methods.
 - visual analytics capabilities, both for analysts and for end-users

Suggested presentations include development of new methods, enhancing software tools (e.g., macros), and case studies/research results. The working language of the conference will be English.

The conference organizing committee invites submissions for:

- 1) **Special sessions** – present multiple perspectives on an issue facing the field of tech mining. An overall abstract should describe the general session topic and how two, three, or four presenters (45, 60, Or 90-minute session, respectively) will offer coordinated oral presentations. Also, provide paper abstracts (see #2).
- 2) **Oral presentations** -- oral presentations (15 minutes + questions) to address well-advanced research. Provide a two-page extended abstract.
- 3) **Power talks** -- consist of an abbreviated oral presentation (5 minutes, 4 PowerPoint slides). The objective is to deliver a lively, concise description of your research and its impacts. Power talk presenters are also invited to present a poster in the evening's Reception/Poster Session if desired.
- 3) **Posters** -- this formal graphic presentation format offers an excellent opportunity for gathering detailed feedback on your work and reporting on tech mining results. Proposed work should be empirical in nature and reflect work in which an early career researcher has led the research, and/or played a significant role in the research.

Two-page submissions for sessions and oral presentations are due by **APRIL 15, 2018**, through the submission link at www.gtmconference.org. The deadline for power talk and poster abstract (250 word) submissions is **JUNE 1, 2018**.

Address questions to Denise Chiavetta, Program Chair, at dchiavetta@searchtech.com. Participants at the GTM conference are strongly encouraged to also attend the **23rd International Science, Technology, and Innovation Indicators Conference** at the same location September 12-14, 2018.