

## Special Track

### Smart Recommender Systems in the Era of Big Data: Knowledge Discovery Using Artificial Intelligence

#### Organizers:

**Lamyaa EL BASSITL** | Mohammed V University in Rabat, Morocco  
**Maria EL HAIBA** | Mohammed V University in Rabat, Morocco

#### Description

In the era of big data, modern organizations have to deal with the distributed, heterogeneous and fast growing characteristics of data. Analyzing such amounts of data facilitates new knowledge, new concepts and then new ideas discovery. Breakthrough ideas are an emergent asset for building and sustaining modern and prospected business ecosystem. Knowledge underlying such ideas encompasses different contextual aspects and other factors related to the involved actors in the innovation effort, which challenge the task of discovery of relevant knowledge. When the number of choices is overwhelming, there is need to filter, prioritize and efficiently deliver relevant knowledge in order to alleviate the problem of data overload. Aligning and utilizing the advancements in artificial intelligence to provide suggestions of items to the user refers to Recommender Systems (RS).

RS are now becoming ubiquitous in today's market-place, and have great importance as evidenced by the large number of organizations using them. They have been used in different fields and by many researchers to support decision making. Successful RS use past used knowledge and satisfaction data to make high quality personalized recommendations. In the era of big data, the volume of data available to RS is staggering, which call for innovative approaches to analyze huge amounts of scattered data, and force a total re-evaluation of the methods used to compute recommendations for building a new generation of smart recommender systems.

This track solicits novel work boosting the use of artificial intelligence to enhance knowledge discovery from different angles with respect to the aforementioned aspects of idea generation. Moreover, empirical interdisciplinary research with added value accomplished by mixed analysis is applicable to the theme.

We encourage submissions on a variety of topics, including but not limited to:

- Novel applications of recommender systems for idea generation
- Context-aware recommender systems
- Novel applications of data mining algorithms for recommender systems
- Sentiment analysis and opinion mining
- Novel optimization techniques for improving recommender systems
- Deep learning and Data Science Applications
- Innovation practices and implementations of recommendation systems
- Novel recommendation problems in non-conventional recommender system research areas
- Emerging recommendation problems and scenarios in industry and their answers
- Novel approaches to user profiling in recommender systems
- User and item representations using multiple information sources
- Dynamic behavior modeling

## **Keywords:**

Knowledge Discovery; Idea Generation; Big Data; Recommender System; Artificial Intelligence;

## **Guidelines:**

Researchers wishing to contribute are invited to submit an extended structured abstract (in Word format) of 500-700 words by December 31, 2017. The abstract should address theoretical background, research objective, methodology, and results in terms of expected contribution to Knowledge Management theory and practice. Authors are encouraged to follow the guidelines for both extended abstracts as well as full papers, available on the ICCMIT'2018 website (<http://www.iccmit.net/>). The accepted papers will be published by IEEE and will appear on IEEE-Explore. Also, the best papers will be invited to be published again after expansion as book chapter in IGI Book as well as Journal of Information Retrieval "ACM Index journal"

## **Deadlines**

- Abstracts Submission Deadline: **28 December 2016**
- Acceptance Notification to Authors: **16 January 2016**
- Full Paper Submission Deadline: **28 February 2016**
- Conference Date: **April 2-4,2018**

## **For further information**

For further information about this special track, please contact: Lamyaa EL BASSITI ([elbassitilamyaa@gmail.com](mailto:elbassitilamyaa@gmail.com)) or Maria EL HAIBA ([maria.elhaiba@gmail.com](mailto:maria.elhaiba@gmail.com))