



**Concurrency and Computation: Practice and Experience**  
**Editors in Chief: Geoffrey C. Fox**  
**Call for Papers**  
**Special Issue on Applications and Techniques in Cyber Intelligence**

The development of big data needs to rely on cyber intelligence technology, because it uses many theories and methods of cyber intelligence. Furthermore, it has achieved certain results. The value of big data as an infrastructure of cyber intelligence is about to usher in a long-term development opportunity. On the other hand, solve the problem of scalability and growth of cyber intelligence cannot be done without big data technology. The development of cyber intelligence also needs to rely on the environment and technology support of big data. It is necessary for cyber intelligence, just like human beings, to have a lot of knowledge and rich experience; behind these knowledge and experience is the need for a large number of data support. The development of cyber intelligence and big data will push each other to form an effective mutual promotion effect. Therefore, the development of cyber intelligence relies on big data, at the meanwhile; big data also open a new chapter for cyber intelligence. Humans will develop intelligent technology under a new perspective of mechanism, thinking and environment of big data. This special issue focuses on the theory, methods and creative solutions of cyber intelligence.

This special issue is focused on cutting-edge research from both academia and industry, with a particular emphasis on novel techniques, combination of tools and so forth to perceive, reason, learn and act on a wide range of Cyber Intelligence data collected from different intrusion attempts, malware campaigns and indications of compromise. Only technical papers describing previously unpublished, original, state-of-the-art research, and not currently under review by a conference or a journal will be considered. Extended work from ATCI 2018 conference must have a significant number of "new and original" contributions along with more than 60% brand "new" material. Topics of interests include, but are not limited to:

- Detection and analysis of advanced Cyber Intelligence tactics, techniques and procedures
- Analytics techniques for detection and analysis of Cyber Intelligence
- Application of machine learning tools and techniques in cyber intelligence
- Theories and models for detection and analysis of advanced persistent threats
- Cyber Intelligence techniques for constructing, detecting, and reacting to advanced intrusion campaigns
- Applying machines learning tools and techniques for Cyber Intelligence

Intelligent analysis of different types of data collected from different layers of network  
Threat intelligence in cyber security domain utilizing big data solutions such as Hadoop  
Interpretation of cyber threat and forensic data utilizing intelligent data analysis techniques  
Automated and intelligent methods for adversary profiling

**Important Dates**

Manuscript Due: November 30, 2018

First Round of Reviews: January 31, 2019

Final Decision: March 31, 2019

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