Guest Editorial Preface

Special Issue on 28th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2016)

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Monitoring and surveillance tools are associated with the use of information processing and decision making technologies. Artificial intelligence is a preeminent area that offers a variety of tools and methods that may be utilized to advance the area of monitoring and surveillance. Therefore, any developments in artificial intelligence may impact the development of new and more efficient tools in monitoring and surveillance applications.

This special issue of International Journal on Monitoring and Surveillance Technologies Research (IJMSTR) features four articles that are extended versions of selected high-quality papers from the 28th IEEE International Conference on Tools with Artificial Intelligence (ICTAI 2016). These four articles present advancements in artificial intelligence pertained to applications in monitoring technologies. The first article discusses the use of multi-agent systems for strategy development, while the second article presents an agent based planning strategy. The third article presents an intelligent method for monitoring and decision making in robot motion, while the last one introduces an ontology monitoring of rock reservoirs.

It is our great pleasure to host these very interesting cutting edge articles in this special issue, and we are extremely thankful to the authors.

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