Call for Papers

A Special Issue of Information Sciences

On “Data-based Control, Decision, Scheduling, and Fault Diagnostics”

As industrial processes become more complex, it is very difficult, sometimes impossible, to realize optimal control with classical model-based methods. On the other hand, while computers, networks, and database technologies are widely used in complex industry processes, a great quantity of historical or real-time data related to the production are generated and stored. Efficient processing leads to data mining and in this way making full use of the implicitly involved and hidden information to design more powerful and effective tools for solving various problems pertinent to complex production control processes, manufacturing systems, power systems, chemical process, communication systems, command and control, decision, scheduling, and fault diagnostics.

To further promote research in data-based approaches and provide efficient methods applicable to open problems in this field, Information Sciences Journal announces Special Issue on “Data-based Control, Decision, Scheduling, and Fault Diagnostics” to be published in January 2012.

Scope of the Special Issue

We welcome fundamental and applied research papers, as well as survey papers. Potential topics include but are not limited to:

- Data-based control
- Data-based decision
- Data-based scheduling
- Data-based fault diagnosis

Important dates

Deadline for manuscript submission: March 1, 2011

Decision notification: August 1, 2011

Final manuscript due: September 1, 2011

Tentative publication date: December 2011
About the Information Sciences

Information Sciences will publish original, innovative and creative research results. A smaller number of timely tutorial and surveying contributions will be published from time to time.

The journal is designed to serve researchers, developers, managers, strategic planners, graduate students and others interested in state-of-the art research activities in information, knowledge engineering and intelligent systems. Readers are assumed to have a common interest in information science, but with diverse backgrounds in fields such as engineering, mathematics, statistics, physics, computer science, cell biology, molecular biology, management science, cognitive science, neurobiology, behavioural sciences and biochemistry.

Submission format

The submitted papers must be written in English and describe original research which is not published nor currently under review by other journals or conferences. Author guidelines for preparation of manuscript can be found at www.elsevier.com/locate/ins

Submission Guideline

All manuscripts and any supplementary material should be submitted through Elsevier Editorial System (EES). The authors must select as “Data-based” when they reach the “Article Type” step in the submission process. The EES website is located at: http://ees.elsevier.com/ins/

Guide for Authors

This site will guide you stepwise through the creation and uploading of you article. The guide for Authors can be found on the journal homepage (www.elsevier.com/ins).