

Call for Papers

Session Title: Analysis and Synthesis of Smart Engineering Systems and associated methods

Session Chair: Dr. José Arzola-Ruiz

Abstract: The proposed session is directed to present theoretical results and practical applications linked to the Analysis and Synthesis of Smart Systems to solve Engineering tasks, with the integration of multilevel, multiple objective optimization methods, in which tools for the human-machine interaction, helped by complementary simulation and graphic representation procedures could be incorporated.

Among others, will be object of attention the organization of interrelated structures of decisions making tasks and their relationship with the multilevel, multiple objective methods including those related with the design, the production and services planning, the processes operation and its integration to the control. Among the applications will be privileged those linked to the selection and dimensioning of renewable energy systems as well as the multidisciplinary integration tasks and will be examined, in general, all classes of tasks related with the Smart Engineering.

Topics of Interest:

1. Analysis and synthesis of Engineering Systems.
2. Classic, metaheuristic and hybrid optimization methods of and its application to Engineering.
3. Multilevel preparing and making decisions under multiple criteria.
4. Human-machine interaction combining optimization, simulation and CAD/CAM/CAE systems methods.
5. Integration of operation and control systems Optimization and Control Systems.
10. Complexity Theory and its applications to Engineering.

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Important Dates:

- Last Date of Paper Submission:
November 30, 2019
- Notification of Acceptance:
December 30, 2019
- Registration:
January 15, 2020
- Camera Ready Copy
January 15, 2020

Publication

All accepted and registered papers of this special session will be published in IEEE Explore.

IEEE Xplore Digital Library. IEEE
Conference Record Number: #48226

Submission Guidelines

As per IEEE Guidelines

Registration

Please visit conference webpage for registration and other details:

<https://aissmsioit.org/esci2020/>