

CALL FOR PAPERS -- CIPLS 2011

2011 IEEE Workshop on Computational Intelligence in Production and Logistics Systems

<http://www.ieee-ssci.org/2011/CIPLS-2011>

The management of production and logistics systems in today's fierce competition environment is a difficult task and has become progressively complex. Major changes in products, processes, technologies, and societies bring along remarkable challenges and increasing market demands. Modelling and optimisation of the complex problems arising in production and logistics systems is of paramount importance in surviving and achieving competitive gains in productivity and quality.

In recent years, the advancements in computer technology have allowed researchers to tackle large-scale problems and to develop and integrate efficient optimisation techniques for solving them. Within this context, CIPLS aims at addressing issues related to the design, planning, control, and continuous improvement of production and logistics systems using computational intelligence, including local search methods, evolutionary algorithms and other nature-inspired optimisation techniques. The intention is to cover various aspects of production from aggregate planning to shop-floor execution systems and modelling, planning and control of logistics systems. Studies incorporating real-world applications are highly encouraged.

Topics

Recommended topics include, but are not limited to, the following:

- Production planning and control
- Flexible manufacturing systems
- Integrated production system and process design
- Capacity planning
- Lot sizing
- Assembly lines
- Inventory control
- Facilities planning and design
- Transport and distribution planning
- Vehicle routing and scheduling
- Multi-modal transport
- Sustainability and green logistics
- Logistics network design
- Decision support systems in production and logistics

Important Dates

Full paper submission due: October 31, 2010

Notification of acceptance: December 15, 2010

Final paper submission date: January 15, 2011

Workshop Co-Chairs

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