	16th The International Conference on Intelligent Systems Design and Applications (ISDA'2016) Porto, Portugal, 14-16 December, 2016 http://www.mirlabs.org/isda16/
Title of Session	**Distributed and Web-based Technologies and Paradigms for Supporting Industrial Manufacturing**
Objectives and scope	One of the main purposes of the development and implementation of models, methods and tools for supporting distributed and web-based industrial manufacturing is to improve effectiveness and efficiency in collaborative manufacturing management through the optimization and enhancement of supply chain and production processes. One of the biggest problems arising in the context of engineering and industrial management science, besides the problem of data collection, is related to information processing in a real time basis. This special session intends to present and discuss recent developments and applications for supporting manufacturing and supply chains based on several contributions arising from the scope of Distributed and Web-based technologies and paradigms for supporting and improving manufacturing interoperability. Moreover, the special session will be a good opportunity to exchange experiences about the implementation of distributes and web-based models, methods and tools for supporting collaborative decision making.
Topics of Interest	The topics of interest for this special session include, but are not limited to: - Distributed Manufacturing Systems - Intelligent Models and Control Systems - Optimization-based Decision Support Models - Web-based Decision Support Systems - Data Mining - Soft Modeling in Production Engineering - Grey System Theory - Rough Sets Theory - Knowledge & Learning Technologies - Applications of Methods and Decision Support Systems in Production Engineering
Session Chair / Co-chair	Leonilde Varela Ana Maria Madureira
Scientific Committee	
Contact Information	Leonilde Varela, Minho University, Portugal, leonilde@dps.uminho.pt Ana Maria Madureira, ISEP/IPP, Portugal, amd@isep.ipp.pt

Brief Biography of the session Organizers	**Name: Maria Leonilde Rocha Varela** **Personal Data** Nationality: Portuguese **Academic Titles** • Graduated (Licenciatura) in Production and Systems – University of Minho in 1994. • Master in Computer Integrated Manufacturing in 1999 from University of Minho • Ph.D. in Production and Systems in 2007 from University of Minho. **Academic Career** • From 1994 to 2003 - Teaching assistant at the Department of Production and Systems of the School of Engineering of the Minho University. • Since 2003 Assistant Professor at the Department of Production and Systems of the School of Engineering of the Minho University. • She has been responsible for several undergraduate and graduate final projects in the area of Production and Systems. **R&D Activities** • Main research interests: Manufacturing Planning and Control, Scheduling, Decision-Support Systems, Web based systems and services, Optimization, Artificial Intelligence and Meta-heuristics. • Member of the EWG-DSS – Euro Working Group of Decision Support Systems • Coordinates R&D projects in the area of Production and Systems Engineering, concerning namely the development of Web-based platforms and decision support systems and methodologies. Published more than 70 scientific papers in international conferences and in international scientific books and journals. **Name: Ana Maria Dias Madureira Pereira** **Personal Data** Nationality: Portuguese **Academic Titles** • Graduated (Licenciatura) in Computer Science at Institute of Engineering - Polytechnic of Porto in 1993. • Master in Electrical and Computer Engineering in 1996 from Porto University • Ph.D. in Production and Systems in 2003 from Minho University **Academic Career** • From 1994 to 2001 - Teaching assistant at the Department of Computer Science Engineering of the Institute of Engineering (ISEP) of the Polytechnic Institute of

Porto.
- Since 2001 Professor at the Department of Computer Science Engineering of the School of Engineering (ISEP) of the Polytechnic Institute of Porto.
- She has been responsible for several undergraduate and graduate final projects in the area of computer science and artificial intelligence.

R&D Activities
- Main research interests: Artificial Intelligence, Decision-Support Systems, Optimization, Meta-heuristics, Evolutionary Computation, Scheduling, Manufacturing, Multi-Agent Systems, Autonomic Computing, Workflow, BPM.
- Member of GECAD – Knowledge Engineering and Decision-Support Research Group, coordinates the Knowledge-based Systems and the Power Systems Groups
- Coordinates R&D projects in the area of Artificial Intelligence and Distributed Scheduling, concerning namely the development of Multi-Agent System for Distributed Manufacturing Scheduling with Biologically Inspired Techniques and Autonomic Computing.
- Published more than 70 scientific papers in international conferences and in international scientific journals and books.