

# Special Issue Information Sheet

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<b>Proposed Title (provisional)</b>	<b>Design for manufacturing and assembly/disassembly: Joint design of products and production systems</b>
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<b>Would you require a Call for Papers?</b>	Yes
<b>Rationale/Overview of Special Issue</b> <i>(please note this will be used to create a Call for Papers so include all pertinent information for the call)</i>	In connection with the 55 <sup>th</sup> anniversary of the International Journal of Production Research (IJPR) – an outstanding vehicle for the dissemination of high quality research results, this special issue is intended to encapsulate emerging aspects of joint product and production system design. Several challenges, such as the design for manufacture, modularity, and assemblability, are of particular importance for production systems due to their ability to minimize product launch times and to produce high quality items at low cost. The objective of this special issue is to publish high-quality, cutting-edge research papers pertaining to the key aspects of design for manufacturing and assembly, in addition to other aspects pertaining to predicting, analyzing, controlling, and optimizing the performance of assembly/disassembly systems. One more focal

	<p>point is the development and maintenance of cost-effective, as well as environmentally-friendly, manufacturing and assembly/disassembly systems.</p> <p>IJPR has a rich history of publishing articles in the aforementioned areas, and a few of them are cited next. Garbie (2013) emphasized the economic aspects of adopting sustainable design from a global perspective. A comprehensive review of knowledge-based design for manufacture was reported by Pugh (1988). Clustering of components has been found to be beneficial in improving design for assembly (Wang and Trolio, 2001). In spite of these and other important publications, scarce resources, rising environmental concerns, rapidly changing manufacturing practices, and significant interlink with heterogeneous disciplines have multiplied the need to revisit, explore, and understand recent trends and practices in the joint design of products and manufacturing systems. This special issue will contribute to this end.</p> <p>Additional motivations for this special issue are the rising global environmental concerns and the intention to steer the production research community towards sustainable design for manufacturing and assembly/disassembly. Articles that extend or reevaluate conventional practices are also encouraged. Design, modeling, single and multi-objective decision-support techniques, performance analysis, combinatorial and robust optimization, development of novel solution methodologies with emphasis towards manufacturing, assembly and disassembly operations are also of interest for this special issue.</p>
<p><b>Subject Areas</b></p>	<p>The scope of this IJPR Special Issue on “<i>Design for manufacturing and assembly/disassembly: joint design of products and production systems</i>” covers all aspects of design of manufacturing, assembly and disassembly systems including, but not limited to, the following topics:</p> <ul style="list-style-type: none"> <li>• <b>Design for manufacturing and assembly/disassembly</b></li> <li>• <b>Concurrent engineering</b></li> <li>• <b>Product and service platform issues</b></li> <li>• <b>Environmentally friendly production, assembly and disassembly processes</b></li> <li>• <b>Economics of manufacturing, assembly and disassembly systems</b></li> <li>• <b>Quantitative modeling of manufacturing, assembly and disassembly operations</b></li> <li>• <b>Machining, assembly and disassembly line balancing</b></li> <li>• <b>Process planning and equipment selection</b></li> <li>• <b>Production system configuration, performance analysis and buffer allocation</b></li> <li>• <b>Replenishment, lot sizing and sequencing for assembly and disassembly systems</b></li> <li>• <b>Inbound and outbound logistics in manufacturing</b></li> <li>• <b>Joint design of manufacturing, assembly/disassembly</b></li> </ul>

	<p><b>and logistics systems</b></p> <ul style="list-style-type: none"> <li>• <b>Multi-objective optimization of manufacturing and assembly/disassembly systems</b></li> </ul>
<p><b>Is this special comprised of extended conference papers/affiliated to a conference?</b></p>	<p>No</p>
<p><b>Deadline for authors to submit their papers</b></p>	<p>Deadline for submissions: June 30, 2017.</p>
<p><b>How many papers would you anticipate receiving?</b></p>	<p>40</p>