

Contributions regarding the efficiency improvement of polymer injection molding processes using higher level information systems

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Abstract.

The scientific paper presents researches regarding the place and role of the information system in industrial organizations that carry out polymeric products made by injection molding processes. The authors start from the analyse of the polymer injection processes integrated with information system in a modern organization within which such manufacturing processes take place. An important concern in this research is allocated to the definition and application of the concepts of efficiency and effectiveness, that are different concepts as applicability but necessary for adaptive manufacturing. The authors analyze various practical scenarios that are presented as short applications regarding the monitoring, modeling and optimization of the parameters within the polymeric products made by injection molding processes.