The CIRP journal of Manufacturing Science and Technology (CIRP-JMST) publishes fundamental papers on manufacturing processes, production equipment and automation, product design, manufacturing systems and product organisations up to the level of the production networks, including all the related technical, human and economic factors. Preference is given to contributions describing research results whose feasibility has been demonstrated either in a laboratory or in the industrial praxis. Case studies and review papers on specific issues in manufacturing science and technology are equally encouraged.

The Journal has been established by CIRP, the International Academy of Production Engineering to meet the needs above. In addition the CIRP has appointed an Editorial Board of Fellows of the Academy which forms a team of highly recognised international experts in the field.

The intention is to establish a forum for publishing the best, most innovative research in the field and to this end the Journal will publish both in-depth versions of the best papers from CIRP conferences, whilst at the same time, welcoming original contributions from authors worldwide. The main goal is to contribute to the further development of the Science and Technology of Manufacturing which is of fundamental importance for the future.

Funding body agreements and policies
Elsevier has established agreements and developed policies to allow authors who publish in Elsevier journals to comply with potential manuscript archiving requirements as specified as conditions of their grant awards. To learn more about existing agreements and policies please visit http://www.elsevier.com/fundingbodies.
Special Issue: Production Networks Sustainability

Production Networks
Wilfried Sihn and Peter Kuhlmann

Collaborative planning with benefit balancing in Dynamic Supply Loops
P. Egri, A. Döring, T. Timm and J. Váncza

A new approach for cost modelling and performance evaluation within operations planning
João Malta and Pedro F. Cunha

Closed-loop production systems–A sustainable supply chain approach
H. Winkler

Leveling of low volume and high mix production based on a Group Technology approach
Fabian Bohnen, Thomas Maschek and Jochen Deuse

Concept of transport-oriented scheduling for reduction of inbound logistics traffic in the automotive industries
M. Florian, J. Kemper, W. Sihn and B. Hellingrath

A framework for modelling energy consumption within manufacturing systems
Y. Seow and S. Rahimifard

Supply chain design for the global expansion of manufacturing capacity in emerging markets
Stefan Weller, Dayán Páez, Jung-Hoon Chun, Steven C. Graves and Gisela Lanza

Joint design of quality and production control in manufacturing systems
M. Colledani and T. Tolo

A web-services oriented workflow management system for integrated digital production engineering
K. Alexopoulos, S. Makris, V. Xanthakis and G. Chryssoulis

Internet based collaboration in the manufacturing supply chain
D. Mourtzis

A modular framework for the LCA-based simulation of production systems
C. Brondi and E. Carpanzano

Ramp-up of hybrid manufacturing technologies
B. Nau, A. Roderburg and F. Klocke

Embodied energy of manufacturing supply chains
S. Kara and S. Ibotson

Networked manufacturing control: An industrial case
Bart Saint Germain, Paul Valckenaers, Hendrik Van Brussel and Jan Van Belle

Tool wear modeling through regression analysis and intelligent methods for nickel base alloy machining
C. Leone, D. D’Addona and R. Teti

Structural concepts for horizontal cooperation to increase efficiency in logistics
R. Leitner, F. Meizer, M. Prochazka and W. Sihn