

**Prof. Dr. Alexandre Dolgui**

*Head of Department Automation, Production and Computer Sciences*

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*National Institute of Sciences and Technologies - **IMT***

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**France**

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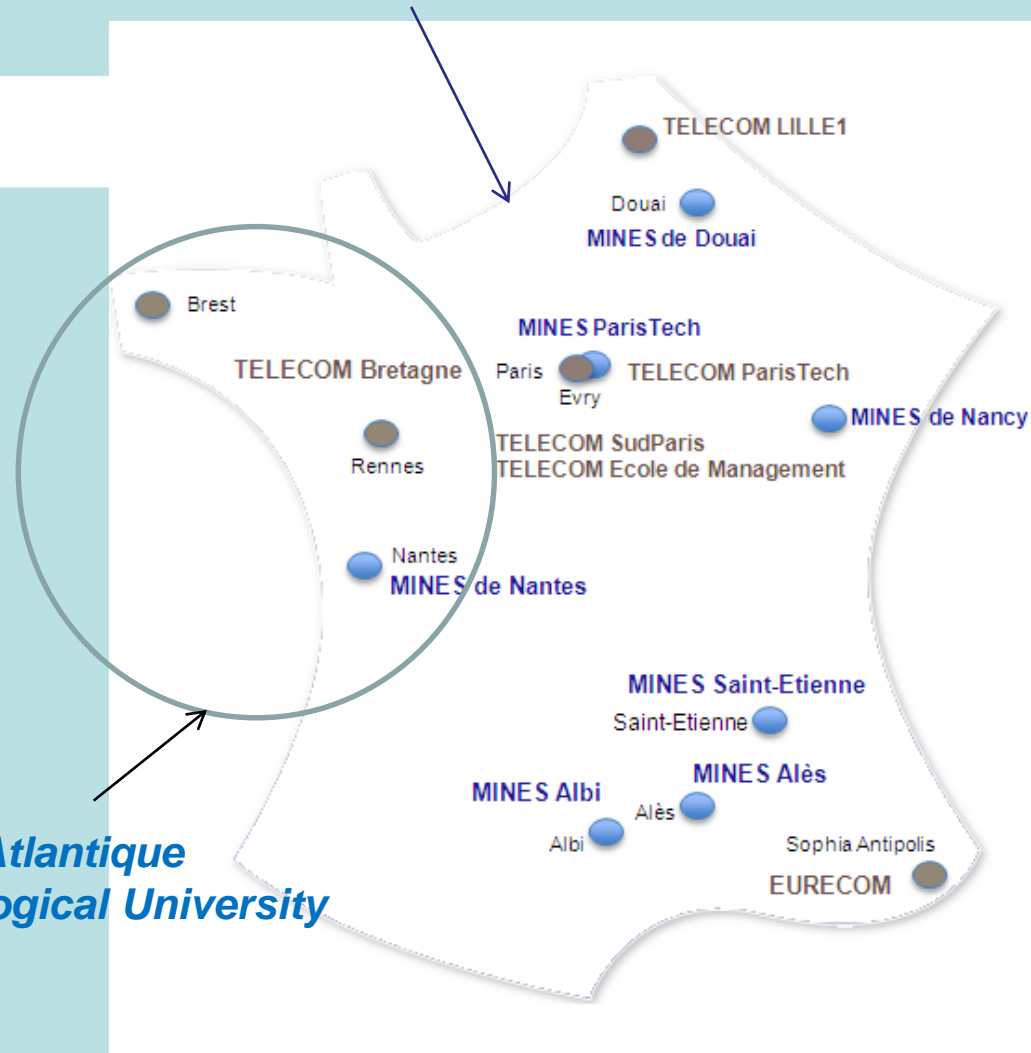
**IMT Atlantique**  
Bretagne - Pays de la Loire  
École Mines-Télécom

**IMT Atlantique** is in Top 10 of French « Grandes Ecoles »  
(a sort of *Technological Universities*), ranked 5th in France by « *L'Usine Nouvelle* », belongs to **IMT – National Institute of Science and Technology**

**IMT** is composed of:

- **12** schools of engineering (Techn. Univ.)
- **1** business and economics school
- **1,450** faculty members
- **13,000** students
- **4,300** graduates per year
- **60,000** alumni
- **34%** foreign students
- **60** nationalities
- Largest enterprise incubator in France

**IMT Atlantique**  
- a *Technological University*



# Department DAPI of IMT Atlantique, campus in Nantes

## Automation, Production and Computer Sciences

(110 persons including 44 Faculty Members):

- Robotics and automatic control
- *Logistics and production systems*
- *Constraint programming and decision making*
- Object oriented systems, language and aspects

*Annual amount of industrial contracts: 2 M Euros*

4 European projects H2020

1 ERC project

## My personal research topics

### - ***Global Supply Chain Optimization under Uncertainties***

Disruptions management and ripple effect in supply chains

Sales forecasting, inventory control and pricing

*Replenishments, production planning and lot sizing*

MRP parameterization for assembly systems

*Adaptive supply chain planning and scheduling*

### - ***Combinatorial Design of Production and Assembly Lines***

Machining lines design and reconfiguration

*Assembly line balancing and sequencing*

Buffer allocation in production lines

Robust optimization of manufacturing systems

### - ***Scheduling and Discrete Optimization***

Flow-shop scheduling

*Joint lot-sizing and scheduling*

*Scheduling and lot-sizing under uncertainties*

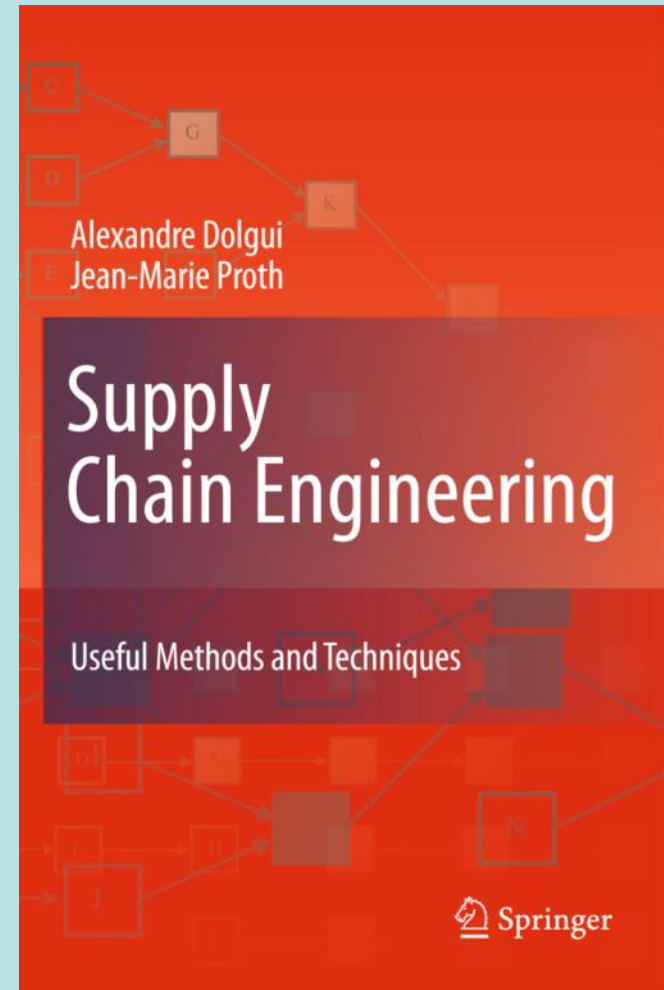
Railway scheduling

## Book


A. Dolgui, J.M. Proth

*Supply chain engineering: useful  
methods and techniques*

Springer, 2010, 542 pages



# The list of my publications can be found on Google Scholar



**Alexandre Dolgui**

SUIVRE

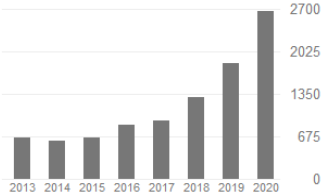
Fellow of IISE, Professor of Industrial Engineering, IMT Atlantique, France  
 Adresse e-mail validée de mines-nantes.fr - [Page d'accueil](#)  
[Manufacturing systems](#) [Assembly line balancing](#) [Planning and Scheduling](#)  
[Operations management](#) [Supply chain](#)

TITRE	CITÉE PAR	ANNÉE
<input type="checkbox"/> <a href="#">A taxonomy of line balancing problems and their solution approaches</a> O Battaila, A Dolgui International Journal of Production Economics 142 (2), 259-277	551	2013
<input type="checkbox"/> <a href="#">A stochastic model for operating room planning with elective and emergency demand for surgery</a> M Lamini, X Xie, A Dolgui, F Grimaud European Journal of Operational Research 185 (3), 1026-1037	401	2008
<input type="checkbox"/> <a href="#">State of art of optimization methods for assembly line design</a> B Rekiek, A Dolgui, A Delchambre, A Bratcu Annual Reviews in control 26 (2), 163-174	380 *	2002
<input type="checkbox"/> <a href="#">A dynamic model and an algorithm for short-term supply chain scheduling in the smart factory industry 4.0</a> D Ivanov, A Dolgui, B Sokolov, F Werner, M Ivanova International Journal of Production Research 54 (2), 386-402	349	2016
<input type="checkbox"/> <a href="#">The Ripple effect in supply chains: trade-off 'efficiency-flexibility-resilience' in disruption management</a> D Ivanov, B Sokolov, A Dolgui International Journal of Production Research 52 (7), 2154-2172	293	2014
<input type="checkbox"/> <a href="#">Supply chain engineering: useful methods and techniques</a> A Dolgui, JM Proth Springer Science & Business Media	288	2010
<input type="checkbox"/> <a href="#">The impact of digital technology and Industry 4.0 on the ripple effect and supply chain risk analytics</a> D Ivanov, A Dolgui, B Sokolov International Journal of Production Research 57 (3), 829-846	281	2019
<input type="checkbox"/> <a href="#">Ripple effect in the supply chain: an analysis and recent literature</a> A Dolgui, D Ivanov, B Sokolov International Journal of Production Research 56 (1-2), 414-430	225	2018
<input type="checkbox"/> <a href="#">Literature review on disruption recovery in the supply chain</a> D Ivanov, A Dolgui, B Sokolov, M Ivanova International Journal of Production Research 55 (20), 6158-6174	222	2017
<input type="checkbox"/> <a href="#">Supply planning under uncertainties in MRP environments: A state of the art</a> A Dolgui, C Prodron Annual reviews in control 31 (2), 269-279	211	2007
<input type="checkbox"/> <a href="#">A model for supply planning under lead time uncertainty</a> A Dolgui, MA Ould-Louly International Journal of Production Economics 78 (2), 145-152	177	2002
<input type="checkbox"/> <a href="#">Review of quantitative methods for supply chain resilience analysis</a> S Hosseini, D Ivanov, A Dolgui Transportation Research Part E: Logistics and Transportation Review 125, 285-307	145	2019
<input type="checkbox"/> <a href="#">Outsourcing: definitions and analysis</a> A Dolgui, JM Proth International Journal of Production Research 51 (23-24), 6769-6777	125	2013
<input type="checkbox"/> <a href="#">MIP approach to balancing transfer lines with blocks of parallel operations</a> A Dolgui, B Finel, NN Guschinsky, GM Levin, FB Vernadat	116	2006

Citée par


TOUT AFFICHER


	Toutes	Depuis 2015
Citations	12447	8346
indice h	57	46
indice i10	218	165





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# Most of them are available on my page in Research Gate



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**Introduction**

Alexandre Dolgui is a Fellow of IISE, Distinguished Professor and Head of Department at the IMT Atlantique, France. His research focuses on manufacturing line design, production planning and supply chain optimization under uncertainty. He is the co-author of 5, co-editor of 20 books, he published 257 refereed journal papers, 30 editorials and 32 book chapters as well as over 400 papers in conference proceedings. He is the Editor in Chief of the International Journal of Production Research.

**Languages**

Belarusian · English · French · Russian

**Disciplines**


Algorithms · Industrial Engineering · Manufacturing Engineering · Computational Economics · Supply chain management · Mathematical Economics

**Skills and expertise (53)**

Modeling ... Simulation · Optimization · Operations Management · Logistics · Simulation · Algorithms · Production Planning · Production · Modeling · Lean Manufacturing · View all

Current affiliation

Edit

**IMT Atlantique**

Location  
Nantes, France

Department  
Department of Automation, Production and Computer Sciences

Position  
Head of Department

Role  
Research and Teaching Depart. DAPI is composed of 110 persons including 44 Faculty Members working in t ... [Read more](#)

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Total Research Interest


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





260,325  
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 Alexandre Dolgui

Lab members (11)

 +5

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[cv.archives-ouvertes.fr/alexandre-dolgui](http://cv.archives-ouvertes.fr/alexandre-dolgui)

[publons.com/researcher/2607415/alexandre-b-dolgui/](http://publons.com/researcher/2607415/alexandre-b-dolgui/)

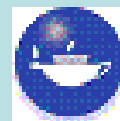
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**Editor-in-Chief**

**International Journal of Production Research  
(IJPR)**



Taylor & Francis Group

INTERNATIONAL JOURNAL OF

# Production Research



Official Journal of the International Foundation for Production Research

Editor-in-Chief, Alexandrine Delopul



In 2020,  
IJPR published its **58<sup>th</sup> Volume**

(Established in 1961)

Flagship of our profession!

# First article in the first issue of the first volume of IJPR

## ESTIMATION OF SERVICE REQUIREMENTS FOR PRODUCTION PURPOSES

by C. KENDRICK\*

(Received by Int. Jnl. Prod. Res., July 20, 1961)

### SUMMARY

Work is discussed in which the service returns of automobile components, together with life mileage information are used to formulate relationships for forecasting future service requirements. Previous production levels of the components concerned are used, and regression analysis is applied to take into account the fact that any given manufacturer has only a proportion of the spares market. Comparisons with other forecasting techniques are given.

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It is not unusual to consider that sufficient allowance can be made for spares in a manufacturing programme by adding a small percentage to the current programme.

The percentage may be the result of an experienced guess at the probable future requirements and, where the replacement market is a small part of the manufacturer's total sales, this may be an adequate procedure. In many branches of industry, however, service requirements represent a large part of the total turnover. Where this is so, and company policy

periods, and so be in a position to pre-plan production taking into account the requirements of the replacement market as well as the demand for original equipment. The accuracy of such forecasts compare well with forecasts made by other methods.

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Les statistiques portant sur l'entretien des pièces d'une automobile avec renseignements sur le rapport entre la vie du véhicule et son kilométrage total sont employées pour prévoir les besoins futurs en pièces de rechange. Les niveaux de production précédents des pièces entrent dans ce calcul et on y applique l'analyse de regression pour tenir compte du fait qu'un fabricant donné ne détient qu'une proportion du marché des pièces de rechange. On fournit également des comparaisons avec d'autres méthodes de prévision.

---

Berichte über Bedienung der Automobilkomponenten werden in Verbindung mit der zurückgelegten Meilenzahl und Komponentenhaltbarkeit dazu benutzt um Beziehungen zu formulieren welche eine Vorhersage über zukünftige Bedienungsbedürfnisse gestatten. Die früheren Produktionsniveaus der Komponenten werden zur Berechnung benutzt, und die Regressionsanalyse berücksichtigt die Tatsache dass einem Fabrikanten nur ein gewisser Teil des Ersatzteilmarkts zur Verfügung steht. Es werden Vergleiche mit anderen Vorhersagemethoden gezogen.

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#### REFERENCES

- BROWN, R. G. (1956) "*Exponential Smoothing for Predicting Demand*". Paper at 10th meeting of O.R.S.A., San Francisco, U.S.A.  
KENDRICK, C. (1960) "*Vehicle Component Replacement Policy*". Unpublished Ph.D. Thesis. Department of Engineering Production, University of Birmingham.  
MOORE, F. G. (1957) "*Production Control*". 2nd Ed. McGraw Hill.

### ABSTRACT

#### A STUDY OF THE VARIETY OF PAPER SIZES IN THE U.K.

by M. N. PHERWANI and S. EILON \*

Case studies in the consumption of stationery paper revealed a wide variety of products and a pricing policy which does not penalise customers for ordering non-standard or odd sizes. Cost analysis by use of break-even charts is not applicable, owing to the difficulty of allocating fixed costs to the various products. The amount of scrap caused by cutting paper rolls to predetermined stationery sizes is suggested as an alternative criterion, and application of linear programming to scheduling of paper sizes is demonstrated. An overall saving to the industry of about 2% of produced material is estimated to be the result if scientific scheduling is adopted. Full data are appended.

\* Department of Mechanical Engineering, Imperial College of Science and Technology, London.

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### SEMINAR ON PRODUCTION CONTROL

A Seminar for those engaged on research into the psychological and organisational aspects of Production Control will be held at the University of Birmingham on January 4th and 5th, 1962.

Professor N. A. Dudley invites applications from those who would like to contribute a paper or a note to the Seminar, and also from those wishing to attend.

The purpose of the Seminar is to try to bring together in an informal group those engaged in this work from all parts of the world; to enable discussion of current work to be carried on freely and to encourage the interchange of ideas.

It will be held in the Institute for Engineering Production which is residential, accommodating 27 people, and an inclusive charge of £3 0s. 0d. will be asked to cover the Seminar and accommodation.

In your application, will you please mention the aspect of Production Control with which you are at present concerned, together with any publications concerning that work.

---

The Editor invites information regarding forthcoming conventions and courses dealing with production research.

## Content of the first issue

ESTIMATION OF SERVICE REQUIREMENTS FOR PRODUCTION PURPOSE  
C. KENDRICK

SELECTIVE ASSEMBLY — ITS ANALYSIS AND APPLICATIONS  
E.M. MANSOOR

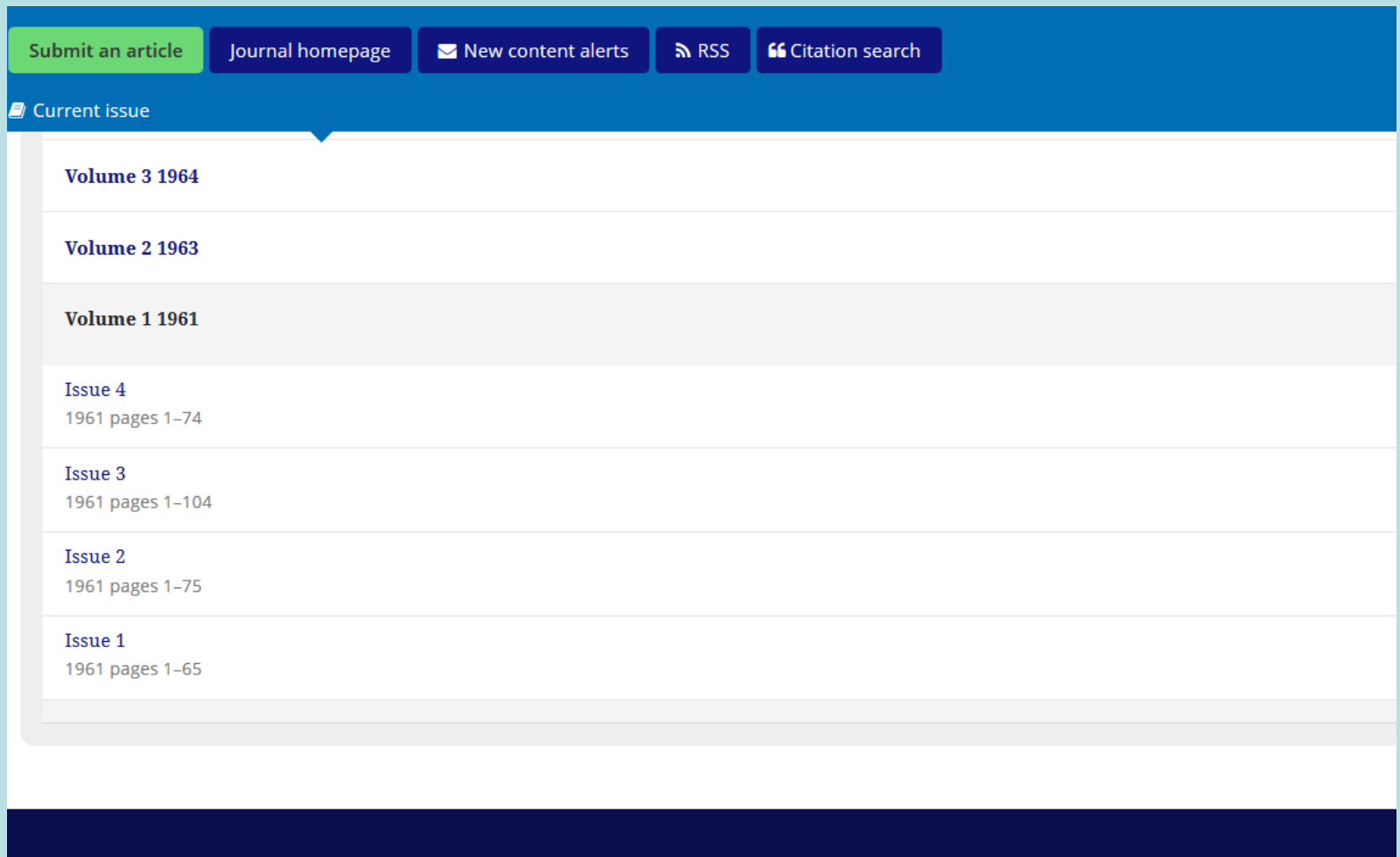
RESEARCH IN MACHINING HIGH STRENGTH MATERIALS AT ELEVATED TEMPERATURES  
W. PENTLAND , J. L. WENNBERG & C. L. MEHL

OPTIMAL REVISION PERIODS  
D. J. WHITE

TWO INVENTORY CONTROL MODELS  
S. EILON

AN ELECTRICAL ANALOGUE FOR SOLVING TRANSPORTATION PROBLEMS  
R. HILLS

A NOTE ON A METHOD OF ESTIMATING THE PRECISION OF TIME STUDY OBSERVATION  
G. GREGORY



In 2021 and 2022,  
we will celebrate the 60<sup>th</sup> anniversary and 60<sup>th</sup> volume anniversary of IJPR,  
respectively

The past Editors-in-Chief of IJPR:

**Norman Dudley**, 1961 – 1981

**Roy Sury**, 1982 – 1997

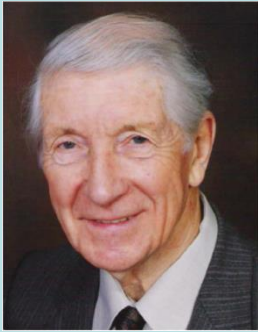
**John E. Middle**, 1998 – 2011

They have accomplished a great deal and established a wonderful reputation for the journal:

- Many cutting edge scientific results were published in IJPR and rest in the annals of scientific research
- Significant advances published in IJPR were transferred from academia to industry and then to the rest of society



In the first editorial, IJPR's founding Editor-in-Chief **Norman Dudley** wrote:



1916–2006

“Production is a meeting place of many disciplines, for the planning, organizing and control of manufacturing industry necessitate an understanding of the nature and interaction of the technical, human and economic forces which are the agents of production. If this understanding can be advanced by bringing together papers which would otherwise have been scattered throughout the literature of the several contributing sciences, the initiative of The *Institution of Production Engineers* in launching this International Research Journal will have been well justified.”

## Contributing sciences

Mechanical engineering

Manufacturing engineering

Industrial engineering

Operations Research

Automation and IT technologies

Computer science

Management science

Economics

etc.

**IJPR is a well established and respected journal in our domain**

Indexed in **ISI Science Citation Index®** (as well as in British Library Inside; Cabell's Management Directory; Cambridge Scientific Abstracts; EBSCO Databases; Electronic Collections Online; Engineering Information Inc; INSEAD; INSPEC®; International Abstracts in Operations Research; ISI CompuMath Citation Index®; ISI Current Contents®: Engineering, Computing and Technology; New Jour; OCLC ArticleFirst; Recent Advances in Manufacturing Database (RAM); Scopus; Zentralblatt MATH/Mathematics Abstracts and Zetoc).

One of the **oldest journals** in this field

It was a pioneer and still is in **manufacturing technologies, industrial engineering, product/process design and production management**

The journal is a giant in our field. In the mind of many of our colleagues it is the reference for all of us

To summarize, IJPR has been the **flagship of our profession for more than half a century**

Journal of the Operational Research Society 1950 (11 years before)

Operation Research 1952 (USA, 9 years before IJPR)

Management Sciences 1954 (USA, 7 years before IJPR)

Naval Research Logistics 1954 (USA, 7 years before IJPR)

## IJPR 1961 (Oxford, UK)

ISI Science  
Citation Index®

Later, were established:

ISI Science Citation Index Expanded®

COR 1974 (13 years after IJPR)

CIE 1976 (15 years after IJPR)

EJOR 1977 (16 years after IJPR)

IJPE 1980 (19 years after IJPR)

JOM 1980 (19 years after IJPR)

JMS 1982 (21 years after IJPR)

JIM 1990 (29 years after IJPR)

PPC 1990 (29 years after IJPR)

POM 1992 (31 after IJPR)

MSOM 1999 (38 years after IJPR)

## Aim and Scope of IJPR

The aims to disseminate research on *decision aid in manufacturing, operations management and logistics*.

Fundamental mathematical techniques from **computer, decision and management sciences** which can be used in the design, measurement or operation of production and logistics systems

Models for analysis of manufacturing strategies and tools as well as the contribution of *new information technologies* to production management and logistics

24 issues, around 2900 submissions and 420 papers published per year,  
=> acceptance rate 15%

## New topics in the scope

Engineering and management of manufacturing systems are still crucial topics today and major concerns of the journal

Other issues with key implications for the world economy, like Global supply networks, Outsourcing, Sustainability, Pricing, Resilience, Risk are now widely discussed

Warehousing, Mass customization, Reconfigurable manufacturing systems, Cloud manufacturing, Cognitive and collaborative technologies, Application of artificial intelligence, Blockchains, Big data, Industry 4.0, Transportation in relation with production, etc. are some other examples of topics which take more place in recent volumes

as well as new applications of production research in service systems (Health care engineering,...)

## **Journal Policy**

**International Journal of Production Research**

**=**

**Scientific rigor & Practical relevance**

## Scientific Rigor & Practical Relevance

The reputation of IJPR was based on a strong link with industrial applications

Convincing scientific results with clear real life applications are the principal criteria for the selection of our papers



## Scientific Rigor & Practical Relevance

Didactic articles, presenting *new and interesting production research problems or/and new applications*

are also welcome

## Scientific Rigor & Practical Relevance

Our journal will never refuse papers that promise a major advance in models and theory, as long as their main concepts and usefulness for production systems and logistics are clearly explained, so that the production research community as a whole can understand them

## Scientific Rigor & Practical Relevance

A special place is reserved for **surveys and discussion papers** as well as invited articles presented **by leading specialists** in our domain

*Establishing a **permanent search for new topics and promising directions** in production research has a high priority with us*

Timothy Fry, Joan Donohue et al., University of South Carolina, USA

have analyzed 15 journal ranking studies on operations management (OM)\* previously published in literature that concerned 147 best journals, then a DEA model was proposed.

(see [Outlets for Operations Management Research: A DEA Assessment of Journal Quality and Rankings](#), *International Journal of Production Research*, 2013, vol. 51, n° 24)

This exciting *American view* gives « Ranking of 32 best OM journals ...» and placed

IJPR\*\* in **4th position (!)** after:

- Management Science
- Journal of Operations Management
- Operations Research

\* IJPR covers not only OM but IE and Manufacturing issues

\*\* The first European based journal listed

The same authors in another paper established the list of *Top 50 Institutions based on the origin of author's Ph.D. (statistics 1961 to 2010)*

*Top 10 are:*

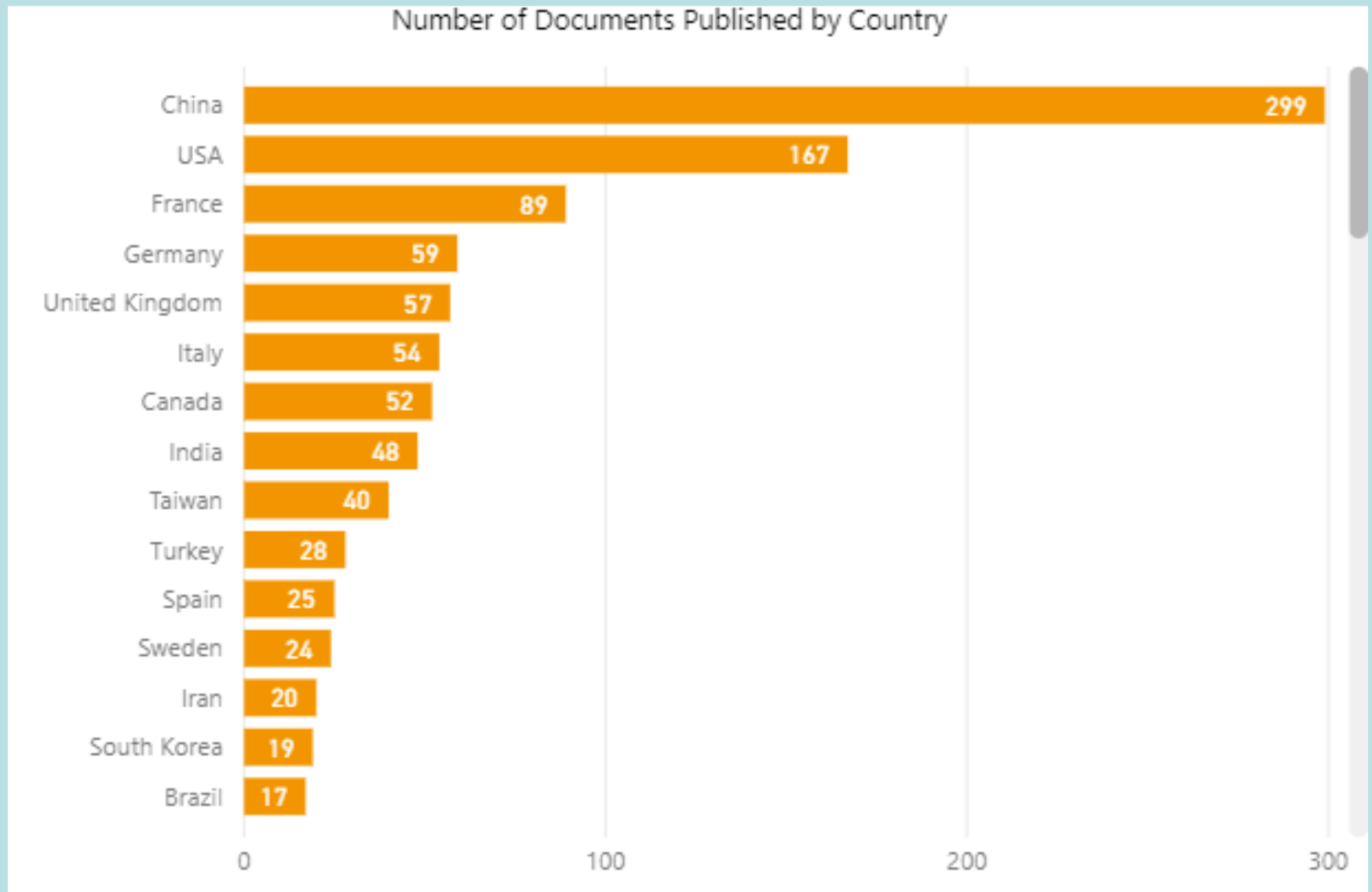
Timothy D. Fry, Joan M. Donohue, Brooke A. Saladin,  
Guangzhi Shang. The Origins of Research and Patterns of  
Authorship in the International Journal of Production  
Research, *International Journal of Production Research*,  
2013, vol. 51, n° 24.

1. Purdue
2. Penn State
3. Michigan
4. Virginia Tech
5. Ga. Tech
6. Loughborough
7. Wisconsin
8. Texas A&M
9. Arizona State
10. Ohio State

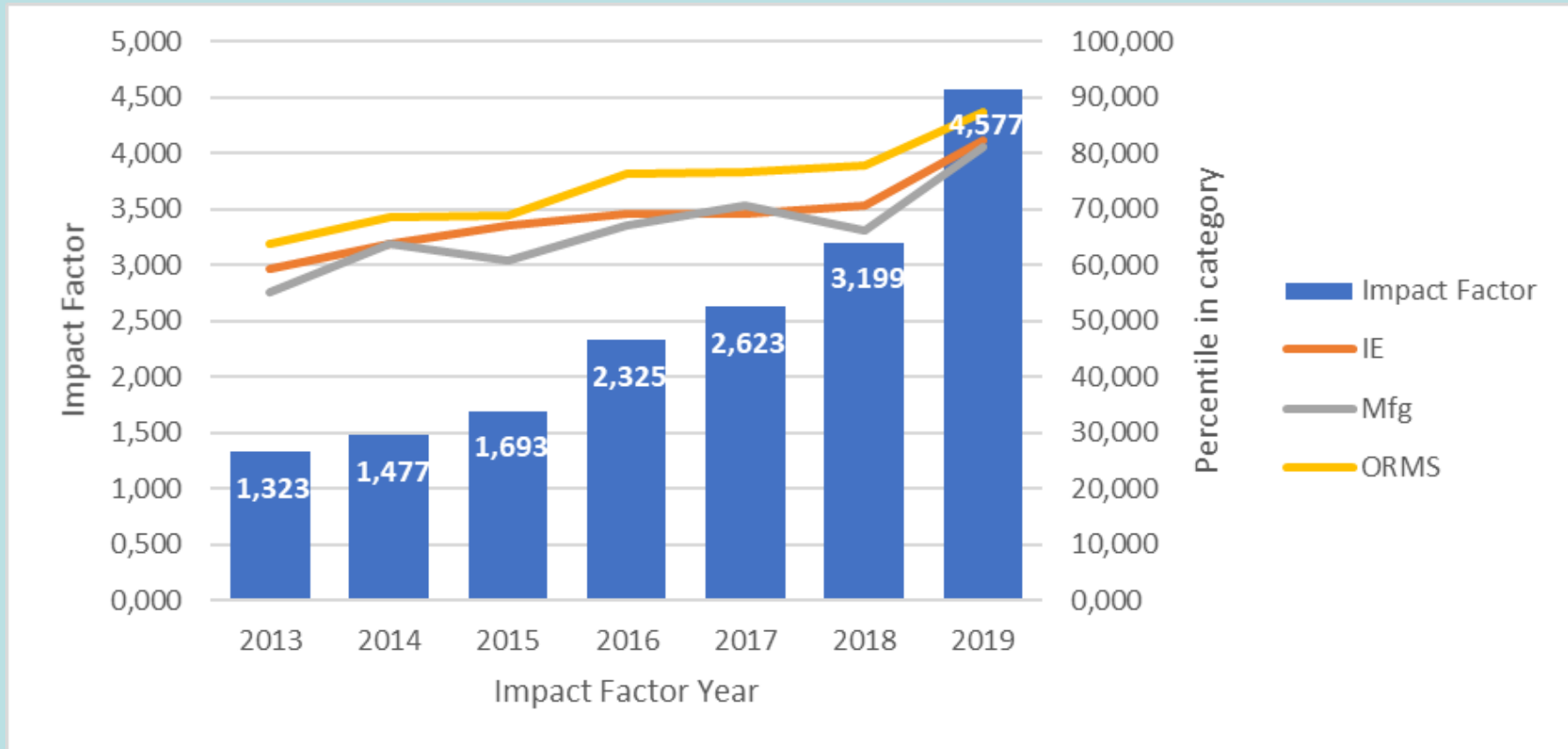
As well as

Top 10 Institutions based on *IJPR* authors' affiliations (**1961 to 2010**):

1. **Purdue**, 255 papers
2. **Penn State**, 246 papers
3. **National University of Singapore**, 201 papers
4. **Loughborough**, 193 papers
5. **Nanyang Technological University**, 193 papers
6. **Hong Kong**, 131 papers
7. **Arizona State**, 122 papers
8. **Shanghai Jiao Tong University**, 122 papers
9. **Korea Advanced Institute of Science and Technology**, 109 papers
10. **National Chiao Tung University**, 105 papers



Finally, even if the Impact Factor is not the sole measure  
for the *leading scientific journals*,  
there has been a welcome and **ongoing improvement in IJPR IF 2019 = 4.577**



Q1 journal in the areas:  
Manufacturing Engineering, Industrial Engineering,  
Operations Research and Management Science



## **Some suggestions for your submissions to IJPR**

Before a submission please to respond to this [major question](#):

### **Why would you submit to IJPR?**

**Please see the scope and policy of journal and read papers published in IJPR, before a submission!**

## For IJPR papers, the following elements are mandatory:

- ✓ An **exhaustive analysis** of production research literature
- ✓ A novel **decision aid model** for *design or management of production systems and logistics*, the model should be explained for a wide audience in production research
  - ✓ **Comparisons with the state of the art**
- ✓ Discussion on **real life applications** of the proposed approach in *production systems and logistics*
  - ✓ **Managerial insights** for decision makers in industry
  - ✓ **Research perspectives**

## Some suggestions for your submissions to IJPR

Obviously this is **my first question** when I receive a paper:

**Why the authors have submitted  
this paper to IJPR?**

Understand, I need to find a response quickly (in the title, abstract, keywords, references, your letter,...) given the number of articles submitted daily!

Thank you for your consideration.

## **Some suggestions for your submissions to IJPR**

Please select carefully keywords from our list at IJPR

**You should know that:**

**Keywords are often used to search for referees!**

Therefore, too general and not specific keywords may result in an inappropriate selection of referees

## Some suggestions for your submissions to IJPR

Take the time to write an appropriate abstract and please  
explain clearly in the abstract:

**Scientific contribution and  
Practical relevance**

of your paper

## **Some suggestions for your submissions to IJPR**

It is specially important to reach a larger readership

Thus, please explain in the Introduction and Conclusion  
why your research is for a **large production research audience**  
(not only for the specialists in your domain)

## Some suggestions for your submissions to IJPR

Before presenting a model, **it is necessary to explain its idea and to define all notations and variables**

Simplify a presentation of your models by  
*introducing step by step their elements*

If you can remove a formula or a text *without loss of information*,  
please do so

Idem for indexes of variables

**Simpler is better!**

## Some suggestions for your submissions to IJPR

A paper for IJPR ranges from

**9000** (a regular paper) **to 14000** (a review article) **words**

*with a maximum of 15 figures*

*Concise and clear papers are favored*



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**Dr Hubert Pun** - *Western University, Canada*

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

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