

Jean-Yves Dantan

List of Publications by Year in descending order

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74
papers

1,550
citations

331670

21
h-index

345221

36
g-index

78
all docs

78
docs citations

78
times ranked

969
citing authors

#	ARTICLE	IF	CITATIONS
1	Tolerancing: Managing uncertainty from conceptual design to final product. CIRP Annals - Manufacturing Technology, 2018, 67, 695-717.	3.6	119
2	Worst-case and statistical tolerance analysis based on quantified constraint satisfaction problems and Monte Carlo simulation. CAD Computer Aided Design, 2009, 41, 1-12.	2.7	93
3	Geometrical product specifications "model for product life cycle. CAD Computer Aided Design, 2008, 40, 493-501.	2.7	88
4	Improved algorithm for tolerance allocation based on Monte Carlo simulation and discrete optimization. Computers and Industrial Engineering, 2009, 56, 1402-1413.	6.3	79
5	Statistical tolerance analysis of bevel gear by tooth contact analysis and Monte Carlo simulation. Mechanism and Machine Theory, 2007, 42, 1326-1351.	4.5	71
6	A statistical tolerance analysis approach for over-constrained mechanism based on optimization and Monte Carlo simulation. CAD Computer Aided Design, 2012, 44, 132-142.	2.7	71
7	Conceptual process planning " an improvement approach using QFD, FMEA, and ABC methods. Robotics and Computer-Integrated Manufacturing, 2010, 26, 392-401.	9.9	65
8	Tolerance synthesis: quantifier notion and virtual boundary. CAD Computer Aided Design, 2005, 37, 231-240.	2.7	64
9	Tolerance analysis " Form defects modeling and simulation by modal decomposition and optimization. CAD Computer Aided Design, 2017, 91, 46-59.	2.7	56
10	Review of data mining applications for quality assessment in manufacturing industry: support vector machines. International Journal of Metrology and Quality Engineering, 2015, 6, 401.	1.0	46
11	Design of a reliable logistics network with hub disruption under uncertainty. Applied Mathematical Modelling, 2016, 40, 5621-5642.	4.2	46
12	Geometrical variations management for additive manufactured product. CIRP Annals - Manufacturing Technology, 2017, 66, 161-164.	3.6	44
13	Mathematical modelling of a robust inspection process plan: Taguchi and Monte Carlo methods. International Journal of Production Research, 2015, 53, 2202-2224.	7.5	35
14	A review on optimisation of part quality inspection planning in a multi-stage manufacturing system. International Journal of Production Research, 2019, 57, 4880-4897.	7.5	34
15	AK-ILS: An Active learning method based on Kriging for the Inspection of Large Surfaces. Precision Engineering, 2013, 37, 1-9.	3.4	31
16	Statistical tolerance analysis of over-constrained mechanisms with gaps using system reliability methods. CAD Computer Aided Design, 2013, 45, 1547-1555.	2.7	30
17	Design for human safety in manufacturing systems: applications of design theories, methodologies, tools and techniques. Journal of Engineering Design, 2016, 27, 844-877.	2.3	27
18	Tolerance Analysis Approach based on the Classification of Uncertainty (Aleatory/Epistemic). Procedia CIRP, 2013, 10, 287-293.	1.9	26

#	ARTICLE	IF	CITATIONS
19	Variation management by functional tolerance allocation and manufacturing process selection. International Journal on Interactive Design and Manufacturing, 2008, 2, 207-218.	2.2	24
20	Cost engineering for variation management during the product and process development. International Journal on Interactive Design and Manufacturing, 2017, 11, 289-300.	2.2	23
21	A new methodology to analyze the functional and physical architecture of existing products for an assembly oriented product family identification. Procedia CIRP, 2018, 70, 47-52.	1.9	23
22	Reconfigurable machining process planning for part variety in new manufacturing paradigms: Definitions, models and framework. Computers and Industrial Engineering, 2018, 115, 206-219.	6.3	20
23	Assembly specification by Gauge with Internal Mobilities (GIM) – A specification semantics deduced from tolerance synthesis. Journal of Manufacturing Systems, 2002, 21, 218-235.	13.9	19
24	Impact of a behavior model linearization strategy on the tolerance analysis of over-constrained mechanisms. CAD Computer Aided Design, 2015, 62, 152-163.	2.7	19
25	Handling the impact of feature uncertainties on SVM: A robust approach based on Sobol sensitivity analysis. Expert Systems With Applications, 2022, 189, 115691.	7.6	19
26	Vectorial tolerance allocation of bevel gear by discrete optimization. Mechanism and Machine Theory, 2008, 43, 1478-1494.	4.5	18
27	Evaluation of process causes and influences of residual stress on gear distortion. CIRP Annals - Manufacturing Technology, 2012, 61, 551-554.	3.6	18
28	Formal Language for GeoSpelling. Journal of Computing and Information Science in Engineering, 2015, 15, .	2.7	18
29	Geometrical deviation identification and prediction method for additive manufacturing. Rapid Prototyping Journal, 2018, 24, 1524-1538.	3.2	18
30	Activity-Based Tolerance Allocation (ABTA) – driving tolerance synthesis by evaluating its global cost. International Journal of Production Research, 2009, 47, 4971-4989.	7.5	16
31	Set based robust design of mechanical systems using the quantifier constraint satisfaction algorithm. Engineering Applications of Artificial Intelligence, 2010, 23, 1173-1186.	8.1	16
32	An improved approach for automatic process plan generation of complex borings. Computers in Industry, 2006, 57, 663-675.	9.9	15
33	A design approach for safety based on Product-Service Systems and Function – Behavior – Structure. CIRP Journal of Manufacturing Science and Technology, 2017, 19, 44-56.	4.5	15
34	Human factors integration in manufacturing systems design using function – behavior – structure framework and behaviour simulations. CIRP Annals - Manufacturing Technology, 2019, 68, 125-128.	3.6	15
35	Human factors under uncertainty: A manufacturing systems design using simulation-optimisation approach. Computers and Industrial Engineering, 2019, 127, 665-676.	6.3	15
36	Management of product design complexity due to epistemic uncertainty via energy flow modelling based on CPM. CIRP Annals - Manufacturing Technology, 2016, 65, 169-172.	3.6	14

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37	Probabilistic-based approach using Kernel Density Estimation for gap modeling in a statistical tolerance analysis. <i>Mechanism and Machine Theory</i> , 2019, 139, 294-309.	4.5	14
38	Statistical tolerance analysis of a hyperstatic mechanism, using system reliability methods. <i>Computers and Industrial Engineering</i> , 2012, 63, 1118-1127.	6.3	13
39	Product design improvement by a new similarity-index-based approach in the context of reconfigurable assembly processes. <i>Journal of Engineering Design</i> , 2020, 31, 349-377.	2.3	13
40	A product functional modelling approach based on the energy flow by using characteristics-properties modelling. <i>Journal of Engineering Design</i> , 2016, 27, 817-843.	2.3	12
41	A trade-off between productivity and cost for the integrated part quality inspection and preventive maintenance planning under uncertainty. <i>International Journal of Production Research</i> , 2019, 57, 5951-5973.	7.5	12
42	Statistical Tolerance Analysis of Over-Constrained Mechanical Assemblies With Form Defects Considering Contact Types. <i>Journal of Computing and Information Science in Engineering</i> , 2019, 19, .	2.7	11
43	Virtual meshing simulation for gear conformity verification. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2009, 2, 35-46.	4.5	10
44	Virtual manufacturing: prediction of work piece geometric quality by considering machine and set-up accuracy. <i>International Journal of Computer Integrated Manufacturing</i> , 2011, 24, 610-626.	4.6	10
45	Comparison of Optimization Techniques in a Tolerance Analysis Approach Considering Form Defects. <i>Procedia CIRP</i> , 2016, 43, 184-189.	1.9	10
46	Calibration and uncertainty estimation of non-contact coordinate measurement systems based on Kriging models. <i>Precision Engineering</i> , 2019, 57, 16-29.	3.4	10
47	Comparison of Skin Model Representations and Tooth Contact Analysis Techniques for Gear Tolerance Analysis. <i>Journal of Computing and Information Science in Engineering</i> , 2015, 15, .	2.7	9
48	Tolerance allocation under behavioural simulation uncertainty of a multiphysical system. <i>CIRP Annals - Manufacturing Technology</i> , 2021, 70, 127-130.	3.6	9
49	Characterization of laser powder bed fusion (L-PBF) process quality: A novel approach based on statistical features extraction and support vector machine. <i>Procedia CIRP</i> , 2021, 99, 319-324.	1.9	6
50	Towards prediction of machine failures: overview and first attempt on specific automotive industry application. <i>IFAC-PapersOnLine</i> , 2020, 53, 289-294.	0.9	6
51	Optimal adjustment of a machine tool for improving the geometrical quality of machined parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2005, 26, 559-564.	3.0	5
52	Identification of the key manufacturing parameters impacting the prediction accuracy of support vector machine (SVM) model for quality assessment. <i>International Journal on Interactive Design and Manufacturing</i> , 2022, 16, 177-196.	2.2	5
53	An iterative statistical tolerance analysis procedure to deal with linearized behavior models. <i>Journal of Zhejiang University: Science A</i> , 2015, 16, 353-360.	2.4	4
54	Statistical Tolerance Analysis Technique for Over-constrained Mechanical Systems. <i>Procedia CIRP</i> , 2018, 75, 232-237.	1.9	4

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55	Integrated uncertainty management in parametric design and tolerancing. Journal of Engineering Design, 2021, 32, 517-537.	2.3	4
56	A quality/cost-based improvement approach for conceptual process planning. International Journal of Management Science and Engineering Management, 2009, 4, 188-197.	3.1	3
57	Design Automation with the Characteristics Properties Model and Property Driven Design for Redesign. Lecture Notes in Production Engineering, 2013, , 563-572.	0.4	3
58	From Functions to Tolerance Analysis Models by Using Energy Flow Model in Characteristics-Properties Modelling. Procedia CIRP, 2016, 43, 100-105.	1.9	3
59	New product similarity index development with application to an assembly system typology selection. Procedia CIRP, 2019, 81, 1077-1082.	1.9	3
60	Design framework for production systems based on BES model " Application in design for safety. Procedia CIRP, 2021, 99, 484-489.	1.9	3
61	Integration of a manufacturing ontology with the design of reconfigurable machine tool using function-behavior-structure approach. , 2007, , .		2
62	Interoperability of QFD, FMEA, and KCs methods in the product development process. , 2009, , .		2
63	Tolerance & Time margin. Procedia CIRP, 2020, 92, 51-56.	1.9	2
64	Framework for tolerance analysis of over-constrained mechanisms with form defects. Procedia CIRP, 2020, 92, 3-8.	1.9	2
65	Multiphysical tolerance analysis " Assessment technique of the impact of the model parameter imprecision. Procedia CIRP, 2020, 92, 206-211.	1.9	2
66	Integrated design " multi-view approach for production systems design. Procedia CIRP, 2021, 100, 217-222.	1.9	2
67	Geometrical Variation Simulation for Assembly With Form Defects. , 2017, , .		1
68	Optimization of Gear Tolerances by Statistical Analysis and Genetic Algorithm. , 2007, , 401-415.		1
69	A methodology for production system design driven by product modelling and analysis " application in the automotive industry. International Journal of Production Research, 2023, 61, 1341-1357.	7.5	1
70	Spécification géométrique par calibre des mobilités internes appliquée aux conditions fonctionnelles de position Geometrical specification by gauge with internal mobilities applied to position functional requirements. Mecanique Et Industries, 2001, 2, 219-227.	0.2	0
71	Sémantique des spécifications géométriques : Classification des éléments géométriques " Calibre des Mobilités Internes Semantic of geometrical specifications : Class of features used in specification " Gauge with Internal Mobilities. Mecanique Et Industries, 2002, 3, 107-112.	0.2	0
72	Tolerancing. , 2014, , 1230-1237.		0

#	ARTICLE	IF	CITATIONS
73	Tolerancing. , 2018, , 1-9.		0
74	Tolerancing. , 2019, , 1725-1732.		0