

Denis Cavallucci

List of Publications by Year in descending order

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37
papers

704
citations

623734

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552781

26
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38
all docs

38
docs citations

38
times ranked

319
citing authors

#	ARTICLE	IF	CITATIONS
1	From TRIZ to OTSM-TRIZ: addressing complexity challenges in inventive design. International Journal of Product Development, 2007, 4, 4.	0.2	98
2	An ontological basis for computer aided innovation. Computers in Industry, 2009, 60, 563-574.	9.9	74
3	A new function-based patent knowledge retrieval tool for conceptual design of innovative products. Computers in Industry, 2020, 115, 103154.	9.9	63
4	Use of formal ontologies as a foundation for inventive design studies. Computers in Industry, 2011, 62, 323-336.	9.9	58
5	Towards a formal definition of contradiction in inventive design. Computers in Industry, 2012, 63, 231-242.	9.9	48
6	The evaluation of creativity from the perspective of subject matter and training in higher education: Issues, constraints and limitations. Thinking Skills and Creativity, 2016, 19, 123-135.	3.5	34
7	Parameter network as a means for driving problem solving process. International Journal of Computer Applications in Technology, 2007, 30, 125.	0.5	31
8	Starting from Patents to Find Inputs to the Problem Graph Model of IDM-TRIZ. Procedia Engineering, 2015, 131, 150-161.	1.2	29
9	Assisting R&D activities definition through problem mapping. CIRP Journal of Manufacturing Science and Technology, 2009, 1, 131-136.	4.5	24
10	A research agenda for computing developments associated with innovation pipelines. Computers in Industry, 2011, 62, 377-383.	9.9	24
11	Linking Contradictions and Laws of Engineering System Evolution within the TRIZ Framework. Creativity and Innovation Management, 2009, 18, 71-80.	3.3	20
12	Natural Language Processing (NLP) – A Solution for Knowledge Extraction from Patent Unstructured Data. Procedia Engineering, 2015, 131, 635-643.	1.2	19
13	On contradiction clouds. Procedia Engineering, 2011, 9, 368-378.	1.2	18
14	A lexico-syntactic Pattern Matching Method to Extract Idm- Triz Knowledge from On-line Patent Databases. Procedia Engineering, 2015, 131, 418-425.	1.2	18
15	Experience capitalization to support decision making in inventive problem solving. Computers in Industry, 2018, 101, 25-40.	9.9	13
16	Using patents to populate an inventive design ontology. Procedia Engineering, 2011, 9, 52-62.	1.2	12
17	Evolution hypothesis as a means for linking system parameters and laws of engineering system evolution. Procedia Engineering, 2011, 9, 484-499.	1.2	12
18	On Solution Concept Evaluation/Selection in Inventive Design. Procedia Engineering, 2015, 131, 1073-1083.	1.2	12

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19	An ontology for TRIZ. <i>Procedia Engineering</i> , 2011, 9, 251-260.	1.2	11
20	Early feasibility evaluation of Solution Concepts in an Inventive Design Method Framework: Approach and support tool. <i>Computers in Industry</i> , 2015, 67, 1-16.	9.9	11
21	Case-based Reasoning for Knowledge Capitalization in Inventive Design Using Latent Semantic Analysis. <i>Procedia Computer Science</i> , 2017, 112, 323-332.	2.0	9
22	IPG as a new method to improve the agility of the initial analysis of the inventive design. <i>FME Transactions</i> , 2021, 49, 549-562.	1.4	8
23	Ontology-based Knowledge Modeling for Using Physical Effects. <i>Procedia Engineering</i> , 2015, 131, 601-615.	1.2	7
24	Analysing complex engineering situations through problem graph. <i>Procedia Engineering</i> , 2011, 9, 18-29.	1.2	6
25	A New Method of Using Physical Effects in Su-field Analysis based on Ontology Reasoning. <i>Procedia Computer Science</i> , 2013, 22, 30-39.	2.0	6
26	A Heuristic Method of Using the Pointers to Physical Effects in Su-Field Analysis. <i>Procedia Engineering</i> , 2015, 131, 539-550.	1.2	6
27	Structuring knowledge in inventive design of complex problems. <i>Procedia Engineering</i> , 2011, 9, 694-701.	1.2	5
28	A Method for Facilitating Inventive Design Based on Semantic Similarity and Case-Based Reasoning. <i>Procedia Engineering</i> , 2015, 131, 194-203.	1.2	5
29	Open the "black box"™ creativity and innovation: a study of activities in R&D departments. Some prospects for engineering education. <i>European Journal of Engineering Education</i> , 2017, 42, 1000-1024.	2.3	5
30	Latent semantic extraction and analysis for TRIZ-based inventive design. <i>European Journal of Industrial Engineering</i> , 2018, 12, 661.	0.8	5
31	Identifying and Reformulating Knowledge Items to Fit with the Inventive Design Method (IDM) Model for a Semantically-based Patent Mining. <i>Procedia Engineering</i> , 2015, 131, 1130-1139.	1.2	3
32	A Model for Exploring Technological Changes in New Systems. <i>Procedia Engineering</i> , 2015, 131, 1146-1156.	1.2	2
33	An Approach to Identify the Readiness Level of a Solution Concept in the Inventive Design Method. <i>Procedia CIRP</i> , 2016, 39, 179-184.	1.9	2
34	Measuring Inventive Performance of R&D Teams. <i>Procedia Engineering</i> , 2015, 131, 514-521.	1.2	1
35	A Software Framework to Support Engineering Analysis for Inventive Solution Concepts. <i>Procedia Engineering</i> , 2015, 131, 626-634.	1.2	1
36	TRIZ : une nouvelle th�orie d'aide � l'innovation industrielle.. <i>Revue Fran�aise De Gestion Industrielle</i> , 1997, 16, 15-27.	1.2	1

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37	Measuring the Efficiency of Inventive Activities Along Inventive Projects in R&D. Procedia Engineering, 2015, 131, 561-568.	1.2	0