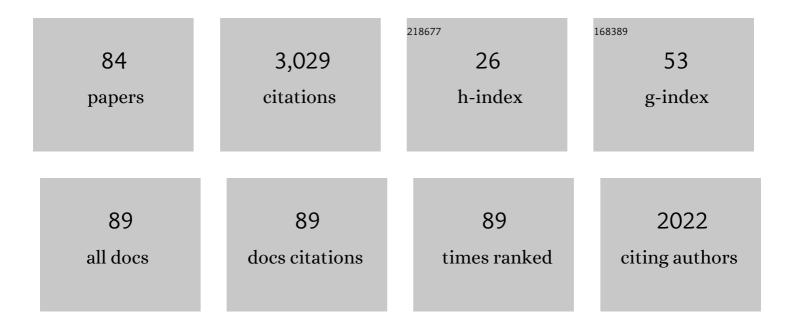
List of Publications by Year in descending order

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Δύδινι Νλοσεμι

| # | Article | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Characterising the Digital Twin: A systematic literature review. CIRP Journal of Manufacturing Science and Technology, 2020, 29, 36-52. | 4.5 | 950 |
| 2 | Energy efficient process planning for CNC machining. CIRP Journal of Manufacturing Science and Technology, 2012, 5, 127-136. | 4.5 | 254 |
| 3 | A review of hybrid manufacturing processes – state of the art and future perspectives. International Journal of Computer Integrated Manufacturing, 2013, 26, 596-615. | 4.6 | 208 |
| 4 | Strategic advantages of interoperability for global manufacturing using CNC technology. Robotics and Computer-Integrated Manufacturing, 2008, 24, 699-708. | 9.9 | 146 |
| 5 | Multi-sensor data fusion framework for CNC machining monitoring. Mechanical Systems and Signal Processing, 2016, 66-67, 505-520. | 8.0 | 108 |
| 6 | A Unified Manufacturing Resource Model for representing CNC machining systems. Robotics and Computer-Integrated Manufacturing, 2009, 25, 999-1007. | 9.9 | 78 |
| 7 | The application of multi-agent systems for STEP-NC computer aided process planning of prismatic components. International Journal of Machine Tools and Manufacture, 2006, 46, 559-574. | 13.4 | 74 |
| 8 | Process control in CNC manufacturing for discrete components: A STEP-NC compliant framework. Robotics and Computer-Integrated Manufacturing, 2007, 23, 667-676. | 9.9 | 53 |
| 9 | Virtual visual sensors and their application in structural health monitoring. Structural Health Monitoring, 2014, 13, 251-264. | 7.5 | 51 |
| 10 | Feature recognition from CNC part programs for milling operations. International Journal of Advanced Manufacturing Technology, 2014, 70, 397-412. | 3.0 | 51 |
| 11 | Investigation of part distortions as a result of hybrid manufacturing. Robotics and Computer-Integrated Manufacturing, 2016, 37, 23-32. | 9.9 | 50 |
| 12 | Application of a hybrid process for high precision manufacture of difficult to machine prismatic parts. International Journal of Advanced Manufacturing Technology, 2014, 74, 1115-1132. | 3.0 | 47 |
| 13 | Universal Manufacturing Platform for CNC Machining. CIRP Annals - Manufacturing Technology, 2007, 56, 459-462. | 3.6 | 46 |
| 14 | A roadmap for STEP-NC-enabled interoperable manufacturing. International Journal of Advanced Manufacturing Technology, 2013, 68, 1023-1037. | 3.0 | 46 |
| 15 | Machine tool capability profile for intelligent process planning. CIRP Annals - Manufacturing Technology, 2009, 58, 421-424. | 3.6 | 44 |
| 16 | Manufacturing at double the speed. Journal of Materials Processing Technology, 2016, 229, 729-757. | 6.3 | 40 |
| 17 | A new software platform to support feature-based process planning for interoperable STEP-NC manufacture. International Journal of Computer Integrated Manufacturing, 2007, 20, 669-683. | 4.6 | 37 |
| 18 | Systematic modeling and reusing of process knowledge for rapid process configuration. Robotics and Computer-Integrated Manufacturing, 2008, 24, 763-772. | 9.9 | 35 |

| # | Article | IF | CITATIONS |
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| 19 | A visual reasoning-based approach for mutual-cognitive human-robot collaboration. CIRP Annals - Manufacturing Technology, 2022, 71, 377-380. | 3.6 | 35 |
| 20 | A STEP-compliant process planning system for CNC turning operations. Robotics and Computer-Integrated Manufacturing, 2011, 27, 349-356. | 9.9 | 34 |
| 21 | Process comprehension for shopfloor manufacturing knowledge reuse. International Journal of Production Research, 2013, 51, 7405-7419. | 7.5 | 34 |
| 22 | STEP-NC compliant process planning as an enabler for adaptive global manufacturing. Robotics and Computer-Integrated Manufacturing, 2006, 22, 456-467. | 9.9 | 33 |
| 23 | Anarchic manufacturing. International Journal of Production Research, 2019, 57, 2514-2530. | 7.5 | 31 |
| 24 | Assessment of interoperability in cloud manufacturing. Robotics and Computer-Integrated Manufacturing, 2020, 61, 101832. | 9.9 | 31 |
| 25 | A mechanistic model of energy consumption in milling. International Journal of Production Research, 2018, 56, 642-659. | 7.5 | 30 |
| 26 | Self-repair of smart manufacturing systems by deep reinforcement learning. CIRP Annals - Manufacturing Technology, 2020, 69, 421-424. | 3.6 | 29 |
| 27 | Toward interoperable CNC manufacturing. International Journal of Computer Integrated Manufacturing, 2008, 21, 222-230. | 4.6 | 27 |
| 28 | A novel methodology for cross-technology interoperability in CNC machining. Robotics and Computer-Integrated Manufacturing, 2013, 29, 79-87. | 9.9 | 26 |
| 29 | A STEP compliant knowledge based schema to support shop-floor adaptive automation in dynamic manufacturing environments. CIRP Annals - Manufacturing Technology, 2010, 59, 441-444. | 3.6 | 24 |
| 30 | A unified manufacturing resource model for representation of computerized numerically controlled machine tools. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2009, 223, 463-483. | 2.4 | 22 |
| 31 | Evolutionary algorithms for generation and optimization of tool paths. CIRP Annals - Manufacturing Technology, 2015, 64, 455-458. | 3.6 | 22 |
| 32 | Interoperability as a Key Enabler for Manufacturing in the Cloud. Procedia CIRP, 2016, 52, 30-34. | 1.9 | 21 |
| 33 | Development of a feature-based open soft-CNC system. International Journal of Advanced Manufacturing Technology, 2017, 89, 1013-1024. | 3.0 | 21 |
| 34 | Application of mobile agents in interoperable STEP-NC compliant manufacturing. International Journal of Production Research, 2006, 44, 4159-4174. | 7.5 | 19 |
| 35 | Using formal methods to model hybrid manufacturing processes. , 2012, , 52-56. | | 19 |
| 36 | An agile production network enabled by reconfigurable manufacturing systems. CIRP Annals - Manufacturing Technology, 2021, 70, 403-406. | 3.6 | 17 |

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| 37 | Non-invasive damage detection in beams using marker extraction and wavelets. Mechanical Systems and Signal Processing, 2014, 49, 13-23. | 8.0 | 16 |
| 38 | Machine tool capability profiles for representing machine tool health. Robotics and Computer-Integrated Manufacturing, 2015, 34, 70-78. | 9.9 | 14 |
| 39 | Degradation-aware decision making in reconfigurable manufacturing systems. CIRP Annals - Manufacturing Technology, 2019, 68, 431-434. | 3.6 | 14 |
| 40 | A multi-method simulation approach for evaluating the effect of the interaction of customer behaviour and enterprise strategy on economic viability of remanufacturing. CIRP Annals - Manufacturing Technology, 2018, 67, 33-36. | 3.6 | 12 |
| 41 | Anarchic manufacturing: Distributed control for product transition. Journal of Manufacturing Systems, 2020, 56, 1-10. | 13.9 | 11 |
| 42 | The creation of a neural networkÂbased capability profile to enable generative design and the manufacture of functional FDM parts. International Journal of Advanced Manufacturing Technology, 2021, 113, 2951-2968. | 3.0 | 10 |
| 43 | Review of machine learning technologies and artificial intelligence in modern manufacturing systems. , 2022, , 317-348. | | 9 |
| 44 | Determination of Machinability Considering Degradation of Accuracy Over Machine Tool Life Cycle. Procedia CIRP, 2014, 17, 760-765. | 1.9 | 8 |
| 45 | A STEP-NC Compliant Methodology for Modelling Manufacturing Resources. Springer Series in Advanced Manufacturing, 2009, , 261-281. | 0.5 | 8 |
| 46 | Process comprehension for interoperable CNC manufacturing. , 2011, , . | | 7 |
| 47 | Unified representation of fixtures: clamping, locating and supporting elements in CNC manufacture. International Journal of Production Research, 2011, 49, 5017-5032. | 7.5 | 7 |
| 48 | Democratising the design of 3D printed functional components through a hybrid virtual-physical design methodology. Procedia CIRP, 2018, 78, 394-399. | 1.9 | 7 |
| 49 | Embracing complicatedness and complexity with Anarchic Manufacturing. Procedia Manufacturing, 2019, 28, 51-56. | 1.9 | 7 |
| 50 | Anarchic manufacturing: implementing fully distributed control and planning in assembly. Production and Manufacturing Research, 2021, 9, 56-80. | 1.5 | 7 |
| 51 | Towards integrated version control of virtual and physical artefacts in new product development: inspirations from software engineering and the digital twin paradigm. Procedia CIRP, 2021, 100, 283-288. | 1.9 | 7 |
| 52 | An Information Model for Process Control on Machine Tools. Advances in Intelligent and Soft Computing, 2010, , 1565-1582. | 0.2 | 7 |
| 53 | Daydreaming factories. CIRP Annals - Manufacturing Technology, 2022, 71, 671-692. | 3.6 | 7 |
| 54 | A meta-model of computer numerical controlled part programming languages. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2015, 229, 1243-1257. | 2.4 | 6 |

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| 55 | Innovative Framework for Immersive Metrology. Procedia CIRP, 2017, 60, 110-115. | 1.9 | 6 |
| 56 | Development of a data model and a prototype information sharing platform for DEMAT machine tools. International Journal of Computer Integrated Manufacturing, 2015, 28, 364-378. | 4.6 | 5 |
| 57 | Generating Milling Tool Paths for Prismatic Parts Using Genetic Programming. Procedia CIRP, 2015, 33, 490-495. | 1.9 | 5 |
| 58 | STEP-based Conceptual Framework for Measurement Planning Integration. Procedia CIRP, 2016, 43, 315-320. | 1.9 | 5 |
| 59 | A STEP-compliant Method for Manufacturing Knowledge Capture. Procedia CIRP, 2014, 20, 103-108. | 1.9 | 4 |
| 60 | Special issue on â€~Cyber-physical product creation for Industry 4.0'. International Journal of Computer Integrated Manufacturing, 2018, 31, 611-611. | 4.6 | 4 |
| 61 | Non-invasive damage detection in composite beams using marker extraction and wavelets. , 2011, , . | | 3 |
| 62 | Modeling of machine tools using smart interlocking software blocks. CIRP Annals - Manufacturing Technology, 2012, 61, 435-438. | 3.6 | 3 |
| 63 | Balancing Global Customer Needs and Profitability Using a Novel Business Model for New Model Programmes in the Automotive Industry. Procedia CIRP, 2016, 52, 56-61. | 1.9 | 3 |
| 64 | Through Life Machine Tool Capability Modelling. Procedia Manufacturing, 2018, 16, 171-178. | 1.9 | 3 |
| 65 | Balancing multiple objectives with anarchic manufacturing. Procedia Manufacturing, 2019, 38, 1453-1460. | 1.9 | 3 |
| 66 | A Monte Carlo Analysis of the Effects of Geometric Deviations on the Performance of Magnetic Gears. IEEE Transactions on Industry Applications, 2020, 56, 4857-4869. | 4.9 | 3 |
| 67 | Simulation of Manufacturing Systems. , 2019, , 1570-1573. | | 3 |
| 68 | Formal Modelling of Process Planning in Combined Additive and Subtractive Manufacturing. , 2014, , 171-176. | | 2 |
| 69 | Additive Manufacturing Simulation Using Signed Distance Fields. Smart Innovation, Systems and Technologies, 2016, , 435-444. | 0.6 | 2 |
| 70 | Towards the democratisation of design: the implementation of metaheuristic search strategies to enable the auto-assignment of manufacturing parameters for FDM. Procedia Manufacturing, 2019, 38, 383-390. | 1.9 | 2 |
| 71 | Towards the democratisation of design: a generalised capability model for FDM. International Journal of Agile Systems and Management, 2020, 13, 79. | 0.3 | 2 |
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72 Computer-Aided Process Planning. , 2019, , 339-345.

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| 73 | Assessing the Effect of Geometric Error on the Performance of Magnetic Gears. , 2019, , . | | 1 |
| 74 | An analysis of premium payments as a mechanism for securing preferential service in cloud manufacturing. Procedia CIRP, 2019, 81, 168-173. | 1.9 | 1 |
| 75 | Web Based Multi Agent Platform for Collaborative Manufacturing. , 2007, , 325-332. | | 1 |
| 76 | Design and implementation of machine tool static error feedback model. , 2009, , . | | 0 |
| 77 | Special Issue on Digital Enterprise Technology. International Journal of Computer Integrated Manufacturing, 2009, 22, 999-999. | 4.6 | 0 |
| 78 | A Novel Information Modelling Approach for Representing Parallel Kinematic Machine Tools. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 1796-1801. | 0.4 | 0 |
| 79 | Algorithm. , 2019, , 1-6. | | 0 |
| 80 | Algorithm. , 2019, , 61-65. | | 0 |
| 81 | Towards the democratisation of design: a generalised capability model for FDM. International Journal of Agile Systems and Management, 2020, 13, 79. | 0.3 | 0 |
| 82 | A heuristic for internal disruption management in assembly systems. Procedia CIRP, 2022, 106, 64-69. | 1.9 | 0 |
| 83 | Feature-Based process planning for interoperable STEP-NC manufacture. , 2006, , 781-786. | | 0 |
| 84 | A new software platform for step-nc manufacturing application development. , 2006, , 787-792. | | 0 |