



BODI ȘTEFAN

List of scientific articles

I. List of the 10 papers considered by the candidate to be the most relevant for his own professional achievements

1. Weckenmann, Albert; **Bodi, Ștefan**^{*1}; Popescu, Sorin; Dragomir, Mihai; Hurgoiu, Dan; Comes, Radu; Hit or Miss? Evaluating the potential of a research niche: A case study in the field of virtual quality management, Sustainability, Vol. 11, Iss. 5, 2019, pp. 1450-1476, DOI: 10.3390/su11051450 [ISI Q2, IF: 2.576]
2. Dragomir, Mihai; Popescu, Sorin; Neamțu, Călin; Dragomir, Diana; **Bodi, Ștefan**; Seeing the immaterial: A new instrument for evaluating integrated management systems' maturity; Sustainability, Vol. 9, Iss. 9, 2017, pp. 1643-1656, DOI: 10.3390/su9091643 [ISI Q2, IF: 2.075]
3. Neamțu, Călin^{*1}; Bratu, Ioan; Măruțoiu, Constantin; Măruțoiu, Victor Constantin; Nemeș, Olivia Florena; Comes, Radu; **Bodi, Ștefan**^{*1}; Buna, Zsolt Levente; Popescu, Daniela; Component Materials, 3D Digital Restoration, and Documentation of the Imperial Gates from the Wooden Church of Voivodeni, Sălaj County, Romania, Applied Sciences, Vol. 11, Iss. 8, 2021, pp. 3422-3439, DOI: 10.3390/app11083422 [ISI Q2, IF: 2.474]
4. Dragomir, Mihai; **Bodi, Ștefan**; Iamandi, Oana; Dragomir, Diana; Applying Sigma Flow simulation software for improving the quality of an R&D Project; Proceedings of the 2014 International Conference on Production Research & 3rd International Conference on QIEM, pp. 152-156, ISBN 978-973-662-978-5, 1-5 July 2014, Cluj-Napoca, Romania [ISI ESCI]
5. **Bodi, Ștefan**; Popescu, Sorin; Drăgeanu, Călin; Popescu, Dorin; Virtual Quality Management elements in optimized new product development using genetic algorithms, Proceedings of the MakeLearn and TIIM Joint International conference, pp. 633-642, ISBN 978-961-6914-13-0, 27-29 May 2015, Bari, Italy
6. **Bodi, Ștefan**; Dragomir, Mihai; Banyai, Daniel; Dragomir, Diana; Process improvements using simulation software and quality tools; 12th International conference on Modern Technologies in Manufacturing, 14-16 October 2015, Cluj-Napoca, Romania; Applied Mechanics and Materials Vol. 808, 2015, pp. 376-381, ISSN print 1660-9336
7. **Bodi, Ștefan**; Comes, Radu; Weckenmann, Albert; Popescu, Sorin; Assistive augmented environment for quality inspection and statistical process control; Proceedings of the 2016 International Conference on Production Research & 4th International Conference on QIEM, pp. 494-499, ISBN 978-606-737-180-2, 25-30 July 2016, Cluj-Napoca, Romania;

¹ corresponding author

8. Solcan, Sergiu; **Bodi, Ștefan**; Comes, Radu; Rozsos, Raul; Neamțu, Călin; Design and ergonomic analysis of car doors made from composite materials; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 64, Iss. 1, 2021, pp. 181-188, ISSN 1221-5872 [ISI ESCI]
9. **Bodi, Ștefan**; Gorceag, Vladimir; Buna, Zsolt; Rozsos, Raul Silviu; Astalos, Vasile Vlăduț; Competitive design and prototyping of a medical device used for reducing the spread of COVID-19; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 64, Special Iss. 4, 2021, pp. 609-614, ISSN 1221-5872
10. Dragomir, Mihai; **Bodi, Ștefan**; Popescu, Sorin Gabriel; Solcan, Sergiu; Smartphone support with docking station, Patent no. 132018/29.10.2021

II. Doctoral thesis

Bodi Ștefan, *Research and contributions regarding the use of the virtual environment for supporting quality management*, scientific coordinator: Prof. Dr.-Ing. Prof. h.c. Dr.-Ing. E.h. Dr. h.c. mult. Albert Weckenmann, Prof. Univ. Dr. Ing. Popescu Sorin; doctoral thesis in the field of engineering and management, publicly defended on September 8th 2017, obtained distinction: *Magna cum laude*.

III. Published books and course materials / guides

Books (minimum 1 as main author: pos.2)

1. Dragomir, Mihai; Iamandi, Oana; **Bodi, Ștefan**; Gohla, Robert; Chiran, Daniela; Innovation Management & Transnational partnership – Training for SMEs and Start-ups/Entrepreneurs – Handbook; Steinbeis-Edition, 2014, ISBN 978-3-95663-013-2
2. **Bodi, Ștefan**; Virtual Quality Management in the Era of Industry 4.0, UTPress, Cluj-Napoca, 2020, ISBN 978-606-737-438-4, DOI: 10.13140/RG.2.2.34973.26084

Course materials / guides (minimum 2: pos.3-6, of which 1 as main author: pos.5-6)

3. Neamțu, Călin; Popescu, Daniela; **Bodi, Ștefan**; Comes, Radu; Curta, Răzvan; SolidWorks 2016 – Îndrumător de laborator; Editura Mega, Cluj-Napoca, 2017, ISBN 978-606-543-906-1
4. Neamțu, Călin; Popescu, Daniela; Curta, Răzvan; Comes, Radu; **Bodi, Ștefan**; SolidWorks 2016 – Student's Guide; Editura Mega, Cluj-Napoca, 2017, ISBN 978-606-543-907-8
5. **Bodi, Ștefan**; Reverse engineering in medical applications; BRIGHT Summer School 2021, Boosting the scientific excellence and innovation capacity of 3D printing methods in pandemic period
6. **Bodi, Ștefan**; CATIA V5 student's guide, 2021, available at: <https://e-learning.utcluj.ro/moodle/>

IV. Articles / studies in extenso, published in journals from the main international scientific flow

Articles indexed in ISI journals and volumes of ISI Clarivate indexed scientific events, visible in the database

1. (2017) Dragomir, Mihai; Popescu, Sorin; Neamțu, Călin; Dragomir, Diana; **Bodi, Ștefan**; Seeing the immaterial: A new instrument for evaluating integrated management systems' maturity; Sustainability, Vol. 9, Iss. 9, 2017, pp. 1643-1656, DOI: 10.3390/su9091643
2. (2019) Weckenmann, Albert; **Bodi, Ștefan***; Popescu, Sorin; Dragomir, Mihai; Hurgoiu, Dan; Comes, Radu; Hit or Miss? Evaluating the potential of a research niche: A case study in the field of virtual quality management; Sustainability, Vol. 11, Iss. 5, 2019, pp. 1450-1476, DOI: 10.3390/su11051450.
3. (2021) Neamțu, Călin; Bratu, Ioan; Măruțoiu, Constantin; Măruțoiu, Victor Constantin; Nemeș, Olivia Florena; Comes, Radu; **Bodi, Ștefan***; Buna, Zsolt Levente; Popescu, Daniela; Component Materials, 3D Digital Restoration, and Documentation of the Imperial Gates from the Wooden Church of Voivodeni, Sălaj County, Romania; Applied Sciences, Vol. 11, Iss. 8, 2021, pp. 3422-3439, DOI: 10.3390/app11083422.
4. (2014) Dragomir, Mihai; **Bodi, Ștefan**; Iamandi, Oana; Dragomir, Diana; Applying Sigma Flow simulation software for improving the quality of an R&D Project; Proceedings of the 2014 International Conference on Production Research & 3rd International Conference on QIEM, pp. 152-156, ISBN 978-973-662-978-5, 1-5 July 2014, Cluj-Napoca, Romania;
5. (2015) Neamțu, Călin; **Bodi, Ștefan**; Ghinea, Rareș; Papp, Attila; Failure Mode and Effect Analysis for mold design; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 54, Iss. 4, pp. 533-536, 2015, ISSN 1221-5872
6. (2015) Scurtu Liviu-Iacob; **Bodi, Ștefan**; Dragomir, Mihai; Optimization methods applied in CAD based furniture design; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 54, Iss. 4, pp. 559-562, 2015, ISSN 1221-5872
7. (2015) Solcan, Sergiu; Neamțu, Călin; Ghinea, Rareș; **Bodi, Ștefan**; Using TRIZ method for support innovation in developing plastic parts; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 54, Iss. 4, 2015, pp. 605-608, ISSN 1221-5872
8. (2016) **Bodi, Ștefan**; Comes, Radu; Weckenmann, Albert; Popescu, Sorin; Assistive augmented environment for quality inspection and statistical process control; Proceedings of the 2016 International Conference on Production Research & 4th International Conference on QIEM, pp. 494-499, ISBN 978-606-737-180-2, 25-30 July 2016, Cluj-Napoca, Romania;
9. (2018) Comes, Radu; Tompa, Vasile; **Bodi, Ștefan**; Neamțu, Călin; Mateescu, Răzvan; Török, K. Ferenc; From theory to practice: Digital reconstruction and virtual reality in archaeology; Journal of Ancient History and Archaeology, Vol.4, Iss. 4, 2018, pp. 80-88, ISSN 2360-266X; DOI: 10.14795/j.v4i4.287.

10. (2020) Dragomir, Diana; **Bodi, Ștefan**; Increasing design process robustness in the case of durable consumer goods; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 63, Iss. 2, 2020, pp. 169-175, ISSN 1221-5872
11. (2020) Rozsos, Raul; Buna, Zsolt; **Bodi, Ștefan**; Comes, Radu; Tompa, Vasile; Design and development of a linear DELTA 3D printer; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 63, Iss. 2, 2020, pp. 185-190, ISSN 1221-5872
12. (2021) **Bodi, Ștefan**; Gorceag, Vladimir; Buna, Zsolt; Rozsos, Raul Silviu; Astalos, Vasile Vlăduț; Competitive design and prototyping of a medical device used for reducing the spread of COVID-19; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 64, Special Iss. 4, 2021, pp. 609-614, ISSN 1221-5872

Journal articles and volumes of scientific events indexed in other international databases (according to OM 6129/2016)

13. (2012) Dragomir, Diana; Cicală, Ioana; Dragomir, Mihai; **Bodi, Ștefan**; Proposed instrument for aiding in the implementation of a social responsibility management system; 2nd International Conference on Quality and Innovation in Engineering and Management, 22-24 November 2012, Cluj - Napoca, Romania, Published in a special issue of Quality - Access to Success. Vol. 13, Suppl. 5, 2012, pp. 123-126, ISSN 1582-2559;
14. (2013) Dragomir, Mihai; Iamandi, Oana; **Bodi, Ștefan**; Designing a roadmap for performance indicators in integrated management systems; 5th International Conference on Managerial Challenges of the Contemporary Society; 8-9 June 2012, Cluj - Napoca, Romania, Published in the journal Managerial Challenges of the Contemporary Society, Vol. 5, 2013, pp. 91-95, ISSN 2069-4229;
15. (2014) Popescu, Daniela; **Bodi, Ștefan**; Neamțu, Călin; Ursa, Nicușor; Low cost 3D laser scanner used for measurement; Proceedings of the 11th International Scientific Conference on "Coordinate Measuring Technique", pp. 155-160, ISBN 978-83-63713-88-1, 2-4 April 2014, Bielsko-Biala, Poland;
16. (2015) Dragomir, Mihai; Dragomir, Diana; **Bodi, Ștefan**; Pitic, Lucian; Dealing with component lifecycle disparity in smart furniture; Proceedings of the 3rd International Virtual Conference on Advanced Scientific Results, pp. 269-272, ISBN 978-80-554-1059-3, 25-27 May 2015;
17. (2015) **Bodi, Ștefan**; Popescu, Sorin; Drăgeanu, Călin; Popescu, Dorin; Virtual Quality Management elements in optimized new product development using genetic algorithms; Proceedings of the MakeLearn and TIIM Joint International conference, pp. 633-642, ISBN 978-961-6914-13-0, 27-29 May 2015, Bari, Italy;
18. (2015) Drăgeanu, Călin; Bacali, Laura; **Bodi, Ștefan**; Research concerning the identification of performance indicators for tourist destinations on the internet; Annual Session of Scientific Papers "IMT Oradea", 28-30 May 2015, Oradea, Romania, published in the journal Annals of the Oradea University. Fascicle of Management and Technological Engineering, Vol. XXIV (XIV), Iss. 1, 2015, pp. 87-90 ISSN 1583-0691
19. (2015) Banyai, Daniel; Dragomir, Mihai; **Bodi, Ștefan**; Daylight for spaces defined by movable walls; 12th International conference on Modern Technologies in Manufacturing, 14-16 October 2015, Cluj-Napoca, Romania; Applied Mechanics and Materials Vol. 808, 2015, pp. 239-245, ISSN print 1660-9336;

20. (2015) **Bodi, Ștefan**; Dragomir, Mihai; Banyai, Daniel; Dragomir, Diana; Process improvements using simulation software and quality tools; 12th International conference on Modern Technologies in Manufacturing, 14-16 October 2015, Cluj-Napoca, Romania; Applied Mechanics and Materials Vol. 808, 2015, pp. 376-381, ISSN print 1660-9336;
21. (2015) Dragomir, Mihai; Dragomir, Diana; Popescu, Sorin; **Bodi, Ștefan**; Case study regarding teaching Design for quality at graduate level; Proceedings of the IETEC-BRCEBE Conference, pp. 78-86, ISBN 978-0-646-94781-5, 1-4 November 2015, Sibiu, Romania;
22. (2015) Neamțu, Călin; Achelariței Camelia; Anghel, Ion; **Bodi, Ștefan**; Designing a hardware platform for training operators of critical infrastructures; Proceedings of the IETEC-BRCEBE Conference, pp. 342-350, ISBN 978-0-646-94781-5, 1-4 November 2015, Sibiu, Romania;
23. (2017) Popescu, Dorin; Popescu, Sorin; **Bodi, Ștefan**; A conceptual framework concerning education as factor of elders' acceptance for smart assistive technologies; Proceedings of the 8th BRCEBE & 10th ICEBE Conference, Vol. 3, Iss. 1, pp. 275-283, ISSN 2391-8160; 19-22 October 2017, Sibiu, Romania, DOI: 10.1515/cplbu-2017-0036;
24. (2020) Comes, Radu; Neamțu, Călin; Buna, Zsolt; **Bodi, Ștefan**; Popescu, Daniela; Tompa, Vasile; Ghinea, Rareș; Mateescu-Suciu, Liliana; Enhancing accessibility to cultural heritage through digital content and virtual reality: A case study of the Sarmizegetusa Regia UNESCO site, Journal of Ancient History and Archaeology, Vol.7, Iss. 3, 2020, pp. 124-139, ISSN 2360-266X; DOI: 10.14795/j.v7i3.561.
25. (2021) Comes, Radu; Neamțu, Călin; Grăjdeanu, Anca; **Bodi, Ștefan**; Virtual reality training system based on 3D scanned automotive parts; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 64, Iss. 1, 2021, pp. 55-62, ISSN 1221-5872
26. (2021) Solcan, Sergiu; **Bodi, Ștefan**; Comes, Radu; Rozsos, Raul; Neamțu, Călin; Design and ergonomic analysis of car doors made from composite materials; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 64, Iss. 1, 2021, pp. 181-188, ISSN 1221-5872
27. (2021) Popescu, Daniela; **Bodi, Ștefan**; Grec, Cătălin; Neamțu, Călin; Jac, Marian; Curta, Răzvan; Photogrammetry accuracy evaluation through 3D scanning and measurement of a custom-designed gauge; Acta Technica Napocensis - Series: Applied Mathematics, Mechanics and, Engineering, Vol. 64, Special Iss. 4, 2021, pp. 761-766, ISSN 1221-5872
28. (2021) Buna, Zsolt; Rozsos, Raul Silviu; Comes, Radu; **Bodi, Ștefan**; Enhanced learning material for mechanical engineering students; QIEM-ICNcT 2021 Joint international conference; 18-19 November 2021, Cluj-Napoca, Romania

V. Intellectual property, patents for invention and innovation

1. Dragomir, Mihai; **Bodi, Ștefan**; Popescu, Sorin Gabriel; Solcan, Sergiu; Smartphone support with docking station, Patent no. 132018/29.10.2021

VI. Research projects / contracts

No.	Years	Beneficiary/Financier	Name / Object	Responsibilities
International				
1.	2013-2016	FP7-INCO-2013-9 R2I-ENP, Project no. 609531;	Knowledge Transfer Community to bridge the gap between research, innovation and business creation – Acronym: NoGAP	Member in the implementation team
2.	2017-2019	Interreg Danube Transnational Programme; Contract no. DTP1-1-071-1.1;	Improving RD and business policy conditions for transnational cooperation in the manufacturing industry – Acronym: Smart Factory Hub (SFH)	Member in the implementation team
3.	2019-2021	Erasmus+ Programme 2014-2020; Key Action 2: Strategic Partnership Projects; Agreement no. 2019-1-TR01-KA202-077366	A Customized Education Plan Based on Industry 4.0 Competency Gaps – Acronym: CEPI4.0	Member in the implementation team
National				
4.	2014-2015	European Fund for Regional Development, POSCCE, 12.P01.001 13 C3	Research for developing and implementing into production innovative furniture – Acronym: SmartFurniture.	Member in the implementation team
5.	2018-2020	UEFISCDI, PN-III-P1-1.2-PCCDI-2017 – Project no. 53PCCDI/2018	Project 1 – Painters, artwork, assignments. Protocols for establishing the paternity of medieval and premodern paintings from Romania – Acronym: IDArt.	Member in the implementation team
6.	2018-2020	UEFISCDI, PN-III-P1-1.2-PCCDI-2017 – Project no. 53PCCDI/2018	Project 3 – Multicriterial methodologies for authenticating and establishing the paternity of medieval and premodern paintings – Acronym: IDArt.	Member in the implementation team
7.	2018-2021	National Council for Financing of Higher Education, Project no. CNFIS-FDI-2018-0438; Project no. CNFIS-FDI-2019-0579; Project no. CNFIS-FDI-2020-0496; Project no. CNFIS-FDI-2021-0199	TUC-N Students – Entrepreneurs in the digital world – Acronym: SALT 2018, 2019, 2020, 2021	Member in the implementation team

8.	2018	Romanian-American Foundation & Junior Achievement Romania, Contract no. JAR2019_027/20.05.2019	Industry-Academia Problem Solving Tournament – Acronym: IMPULSE	Director
9.	2020-2022	EEA Grants, Financing contract no. RO-CULTURA-A1-6/2020/31.01.2020	Horea's Church – A heritage for the future. Capitalizing on an 18th century architectural monument through virtual reality – Acronym: CALL01-16	Member in the implementation team
10.	2020	Romanian-American Foundation & Junior Achievement Romania, Contract no. JAR2020_002/03.02.2020	Mainstreaming technology Commercialization in Romania – Acronym: MaCRO	Member in the implementation team
11.	2020-2022	UEFISCDI, PN-III-P2-2.1.-2.1.2.-PED-2020 – Project no. 345PED/2020	Smart hospital bed – Acronym: HOPE	Member in the implementation team
12.	2020-2022	UEFISCDI, PN-III-P1-1.1.-TE-2020 – Project no. 132TE/2020	Mass digitization of cultural heritage: between myth and reality. Evaluating the accuracy of 3D models generated using the photogrammetry method in the case of cultural heritage – Acronym: AtOP	Member in the implementation team
13.	2020-2022	Human Capital Operational Program 2014-2020, Call code: POCU/626/6/13, Project no. 130354 (SMIS code)	Advanced practice for success in the engineering career – Acronym: PAVING	Member in the implementation team
14.	2017	Electroceramica S.A.	3D measurement services	Contract Director
15.	2019	Eckerle Automotive S.R.L.	Industrial 3D measurement and scanning services	Contract Director
16.	2021	Emerson S.R.L.	Measurement of mechanical parts from the LSR project, using the instruments provided by the 3D measurements laboratory	Contract Director
17.	2021-2026	RAAL S.A.	Framework collaboration agreement no. 1400/19.01.2021: Industrial 3D measurement and scanning services and related consultancy	Contract Director
18.	2021-2026	Modulo Decorative Solutions S.R.L.	Framework collaboration agreement no. 3876/15.02.2021: Industrial 3D scanning and CAD modeling services	Contract Director

19. 2021-2026 AviTech Co. S.R.L.

Framework collaboration agreement no. 9471/12.04.2021: 3D scanning and processing services

Contract Director

**Cluj-Napoca,
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