

Çağlar ÜÇLER

Associate Professor

Research Areas

- New Product Development
- Innovation Management
- Aerospace & Cryogenics

Education

PhD

- Engineering Management, Marmara University

Graduate

- Aerospace Engineering, Technical University of Munich

Undergraduate

- Mechanical Engineering, Technical University of Munich

High School

- Deutsche Schule Istanbul

Research

A. International Journals

- Ucler, C. and Aldemir, H.O. (2022), "Airspace Deregulation for UAM: Self-organizing VTOLs in Metropolises." *Collegiate Aviation Review International*, 40(1), 40-62.
- Demirel, Ş. , Yabaş, S. E. , Üçler, Ç. , Şener, S. & Zafer, M. R. (2021). Idea Evaluation in Innovation Management for the New Normal in Banking: A Case Study in Vakıfbank. *Journal of BRSA Banking and Financial Markets*, 15(1), pp. 1-26 . DOI: 10.46520/bddkdergisi.986618
- Kılıç, S., Peksatici, O. and Ucler, C. (2021), "Passengers' Shopping Preferences: A Study of Istanbul Airports", *Journal of Aviation*, 5(2), 265-281. <https://doi.org/10.30518/jav.1010982>
- Kılıç, S., Ucler, C. and Martin-Domingo, L. (2021), "Innovation at Airports: A Systematic Literature Review (2000-2019)", *Aviation*. 25(3), 220–231. <https://doi.org/10.3846/aviation.2021.14917>
- Kılıç, B. and Ucler, C. (2019), "Stress among ab-initio pilots: A model of contributing factors by AHP", *Journal of Air Transport Management*, 80, (2019) 101706, <https://doi.org/10.1016/j.jairtraman.2019.101706>
- Ucler, C., Yavuz, R.I. (2019), "Implementation of Innovation Management Systems in Large Companies of Different Typologies", *Journal of Business Research-Turk*, 11(1), 195-207. <https://doi.org/10.20491/isarder.2019.592>.
- Ucler, C. (2018), "Portfolio management for innovation ideas: weighing antecedents with AHP", *Journal of Entrepreneurship and Innovation Management*, 7(1), 25-51.

- Ucler, C. (2017), "Intelligent assignment in clusters to enhance collaboration and innovation", *Journal of Manufacturing Technology Management*, 28(5), 554-576. <https://doi.org/10.1108/JMTM-07-2016-0103>
- Ucler, C. (2017), "Brainstorming the cryoplane layout by using the iterative AHP-QFD-AHP approach", *Aviation*, 21(2), 55-63. <https://doi.org/10.3846/16487788.2017.1344138>
- Kurt, O.E., Ucler, C. and Vayvay, O. (2017), "From ideation towards innovation: pillars of front-end in new product development", *Press Academia Procedia*, 5 (1), 71-79. DOI: 10.17261/Pressacademia.2017.574
- Ucler, C. and Vayvay, O. (2016), "Problems and Root Causes in Product Realization in High Technology Oriented Industrial Equipment Production Organizations", *Eurasian Business & Economics Journal*, 2(s2), 677-686. <http://dx.doi.org/10.17740/eas.econ.2016-MSEMP-142>
- Havle, C.A., Ucler, C. (2016), "EBA: A Structured Approach for Evidence Based Lean Implementation Problems and Root Causes in Product Realization in High Technology Oriented Industrial Equipment Production Organizations", *Eurasian Business & Economics Journal*, 1(s1), 272-281. <http://dx.doi.org/10.17740/eas.econ.2016-MSEMP-25>
- Ucler, C., and Gok, O. (2015), "Innovating General Aviation MROs through IT: The Sky Aircraft Management System – SAMS", *Procedia - Social and Behavioral Sciences*, 195, 1503-1513. doi:10.1016/j.sbspro.2015.06.452
- Ucler, C., and Martin-Domingo, L. (2015), "Travelers Idle Time and the Value Chain at Airports", *Journal of Aeronautics and Space Technologies*. 8(2), 25-33. DOI: 10.7603/s40690-015-0013-9
- Ucler, C. and Vayvay, O. (2008), "Collaborative Clusters: A Customer Focused Innovative Approach for Product Development", *Lecture Notes in Engineering and Computer Science*, 2171(1), 1278-1283. ISBN:978-988-17012-3-7.
- Ucler, C., Vayvay, O. and Cobanoglu, E. (2006), "Customer-Focused Product Development and a Case Study in Turkish Refrigerator Market", *Istanbul Commerce University, Journal of Science*, 5(10), 2006/2, pp. 81-97.

B. International Proceedings

- Üçler, Ç., Öztürk, C., Görgün, G., Tekinırk, A.K., Dursun, C.F. (2021). "Resilient R&D in Covid 19: A Case from Aviation Supply Chain", in III. International Conference on Global Competition and Innovation Management, 16-18 September, 2021, Istanbul, Turkey.
- Demirel, S, Yabaş, S.E., Üçler, Ç, Şener, S. & Zafer, M.R. (2021). "Impact of the Pandemic Climate in Innovation Management", in III. International Conference on Global Competition and Innovation Management, 16-18 September, 2021, Istanbul, Turkey.
- Gegeoglu, K., Kahraman, M., Ucler, C., & Karabeyoglu, A. (2019). Assessment of Using Electric Pump on Hybrid Rockets. In *AIAA Propulsion and Energy 2019 Forum (AIAA 2019-4124)* Published Online:16 Aug 2019. <https://doi.org/10.2514/6.2019-4124> (p. 4124).
- Gupta, R.K., Ucler, C. and Bernard, A. (2018), "Extension of the Virtual Customer Inspection for Distant Collaboration in NPD: A Proposal and Assessment of Challenges", in 24th ICE/IEEE International Conference on Engineering, Technology and Innovation, 17-20 June 2018, Stuttgart, Germany. DOI: 10.1109/ICE.2018.8436333.
- Havle, C.A. and Ucler, C. (2018), "Enablers for Industry 4.0", in *IEEE International Symposium on Multidisciplinary Studies and Innovative Technologies*, 19-21 October 2018, Kızılcahamam/ Ankara, Turkey. DOI: 10.1109/ISMSIT.2018.8567293
- Kurt, O., Ucler, C. and Vayvay, O. (2018), "Intelligent Self-Adaptive Decision Model for Product Innovation in FE", in *IEEE Intelligent Systems 2018*, 2-4 October 2018, Madeira Island, Portugal. pp. 304-311. doi:10.1109/IS.2018.8710553 <https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8710553>
- Ucler, C. and Kristensen, K. (2016), "CONTEXT – A Novel Approach For Collaborative Virtual Product Realization and Its Disclosure Using the Business Model Canvas", in 22nd ICE

Conference & 2016 IEEE Technology Management Europe Conference, Trondheim, Norway. DOI: 10.1109/ICE/ITMC39735.2016.9026124

- Kristensen, K. and Ucler, C. (2016), "Collaboration Model Canvas: Using the Business Model Canvas to Model Productive Collaborative Behaviour", in 22nd ICE Conference & 2016 IEEE Technology Management Europe Conference, Trondheim, Norway. DOI: 10.1109/ICE/ITMC39735.2016.9026160
- Ucler, C. (2016), "VCA Assessment of iCAT for Collaborative NPD and Innovation in Industrial Clusters", in 22nd ICE Conference & 2016 IEEE Technology Management Europe Conference, Trondheim, Norway. DOI: 10.1109/ICE/ITMC39735.2016.9025863
- Ucler, C. (2014), "Involvement of the Notifying Body in the Innovative Development Environment: Lessons Learnt from the Development of Green Alternative Cryogenic Fuelling Systems in Multinational Work Groups", in 20th ICE Conference, IEEE Technology Management Europe Conference, Bergamo, Italy. DOI: 10.1109/ICE.2014.6871530
- Ucler, C. (2014), "Evaluation of Alternative Cryogenic Green Propulsion Systems In Terms Of Aviation Infrastructure", in Proceedings of Air Transport Research Society, ATRS 2014 World Conference, (127), pp. 106-1096.
- Ucler, C. and Vayvay, O. (2013), "Incorporating Engineering Resources of SMEs for Subsystems Development Using Concurrent Engineering and a Case Study in Turkey", in 19th ICE Conference & 2016 IEEE Technology Management Europe Conference. The Hague, the Netherlands.
- Emekli, O., Ucler, C. and Vayvay, O. (2007), "Simulation in Model Based Design and the Application of a Subcontractor Model in Product Development", in 2nd National Conference for Defense Modelling and Simulation-USMOS 2007, 18-19 April 2007, Ankara Turkey, pp. 241-250.
- Ucler, C. and Dagdeviren C. (2002), "Strength of a Tractor Transaxle by Means of Finite Element Method", in 8th International Congress on Mechanization and Energy in Agriculture (TARMAK 2002), pp. 19-22. ISBN:975-483-560-8.

C. Book Chapters

- Ucler, C., & Gupta, R. K. (2021). From Lean Towards Frugal Product Development. In Lokuge, S., & Sedera, D. (Ed.), Rural Entrepreneurship and Innovation in the Digital Era (pp. 217-234). IGI Global. <http://doi:10.4018/978-1-7998-4942-1.ch012>
- Peksatici , Ö. and Ucler, C. (2019), Institutional logic and its impact on interorganizational collaboration and innovation. In: A New Perspective in Social Sciences. edited by Sarı, D.B., Yenihan, I.B. and Franca V., Londin UK: Front Page. ISBN: 978 93 81043 36 3
- Ucler, C. and Adiloglu-Yalcinkaya, L. (2018), "Innovation management system: what is & how to establish it?", in A critical review of Social Sciences: Theory and Practice. 357-372. London UK: Frontpage. ISBN 978-9-3810-4328-8.
- Ucler, C. (2016), "Birlikten Kuvvet Doğar mı? Organizasyonlar arası işbirlikçi ürün geliştirmede sanal iletişim problemleri ve çözümler", in İletişim Çalışmaları, 2016, 283-299. Sakarya, Turkey: Sakarya Üniversitesi, ISBN: 978-605-4735-87-7

D. National Journals

- Sarı, O., Bulat, O., Tunçer, O. and Ucler, C. (2020), "Model tabanlı tasarım ile eş-zamanlı mühendislik: mikro-türbin uygulama örneği", Mühendis ve Makina , 61 (698) , 1-16 . <https://dergipark.org.tr/tr/pub/muhendismakina/issue/54826/750600>
- Ucler, C. and Vayvay, O. (2018), "KOBİ'lerde Eş Zamanlı Mühendislik: Otomotiv Tedarikçi Sektöründe Bir Uygulama", International Journal of Engineering Research and Development, 10(2), 76-92. <https://doi.org/10.29137/umagd.347896>

E. National Proceedings

- Ucler, C. and Adiloglu-Yalcinkaya, L. (2018), İnovasyon Yönetim Sistemi: Nedir ve Nasıl Kurulabilir?, in Social Sciences Congress, Antalya, Turkey, 11-13 May 2018. Elazığ: Fırat Üniversitesi Matbası. ISBN: 978-975-394-087-0.
- Ucler, C. (2013), “Alternatif Kriyojenik Yakıtlı Uçaklarda Özel İsterler ve Qfd-Ahp Kullanımı ile Yenilikçi Tasarım Çerçevesi Oluşturulması”, in Ankara International Aerospace Conference - AIAC 2013, Ankara. (106), pp. 13.
- Ucler, C. (2009), İleri Teknolojili Gemilerin Güç Ünitelerinde Mukavemet, Şok, Akışkanlar Dinamiği, Soğutma ve Kontrol Sistemleri İle İlgili Simülasyon ve Direkt Hesaplama Yöntemleri, in Proceedings of 2nd Naval Systems Seminar, 12 October 2009, Ankara, Turkey.
- Ucler, C. (2008), Denizcilik Uygulamalarında İleri Mühendislik Yöntemleri, Savaş Gemilerinde BDM Uygulama Örnekleri, in 1st Naval Systems Seminar, 21 October 2008, Ankara, Turkey.

Teaching

- Aerodynamics (PLT 104), Aircraft General Knowledge (PLT203 & PLT303), Principles of Flight (PLT217, PLT314 & AVT201, Instrumentation PLT312), Innovation in Aviation (AVM314).