

## **Prof. OWAIN FRANCIS PEDGLEY**

### **Personal Information**

**Email:** pedgley@metu.edu.tr

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### **Research Areas**

Industrial Design

### **Academic Titles / Tasks**

Professor, Middle East Technical University, Faculty Of Architecture, Department Of Industrial Design, 2018 - Continues

### **Academic and Administrative Experience**

Faculty Promotions and Appointments Committee - Member, Middle East Technical University, Faculty Of Architecture, Department Of Industrial Design, 2020 - Continues

Graduate Programs Committee - Chair, Middle East Technical University, Faculty Of Architecture, Department Of Industrial Design, 2020 - Continues

Graduate Applications Committee - Member, Middle East Technical University, Faculty Of Architecture, Department Of Industrial Design, 2019 - Continues

### **Courses**

GRADUATE SEMINARS IN INDUSTRIAL DESIGN, Postgraduate, 2020 - 2021

CURRENT ISSUES IN INDUSTRIAL DESIGN, Postgraduate, 2020 - 2021

DOCTORAL SEMINARS IN INDUSTRIAL DESIGN, Postgraduate, 2020 - 2021

### **Advising Theses**

Pedgley O. F. , Implicit Interactions with a Peculiar Radio: Designing an Interactive Artefact for Fostering Meaningful Music-Listening Experiences, Postgraduate, Ö.SARPER(Student), 2021

Şener Pedgley B., Pedgley O. F. , DESIGNING FOR NEW GENERATION ELECTRONIC MUSICAL INSTRUMENTS: STRATEGIES TO IMPROVE INTERACTION, USER EXPERIENCE AND LIVE PERFORMANCE, Doctorate, E.HÜRSU(Student), 2020

Pedgley O. F. , Design for luxury automotive HMI systems and driver experiences, Doctorate, S.Yardıı(Student), 2019

Pedgley O. F. , Design for performability in nylon strung acoustic guitars, Doctorate, A.KORKMAZ(Student), 2017

PEDGLEY O. F. , Semantic discontinuities: Investigating designers' product expressions versus users' product impressions, Doctorate, J.KHALAJ(Student), 2015

PEDGLEY O. F. , Designing for sound as a component of product experience: Development of a novel conceptual tool, Postgraduate, K.BENLİ(Student), 2015

PEDGLEY O. F. , Research and design for a material sample information system appropriate to industrial design students, Postgraduate, İ.FAZIL(Student), 2013

PEDGLEY O. F. , Industrial design and the mass customization of electronic consumer goods, Doctorate,

S.KAYĞIN(Student), 2013

Pedgley O. F. , Özcan Vieira E., A lexicon for product experiences, Postgraduate, G.Onuşluel(Student), 2012

PEDGLEY O. F. , Pedgley O., Emotional effects of car passenger activities on physiology and comfort : an empirical study, Postgraduate, A.Kruithof(Student), 2012

PEDGLEY O. F. , Barriers and opportunities for integrating sustainable product design into Ankara small and medium-sized furniture enterprises, Postgraduate, M.Erçin(Student), 2012

Pedgley O. F. , Sonneveld M., Physical pain in user-product interaction, Postgraduate, E.DİKDUR(Student), 2011

PEDGLEY O. F. , Research and product design to minimize food waste in western domestic kitchens, Postgraduate, A.BEKTEŞ(Student), 2010

PEDGLEY O. F. , Harnessing children's creativity in contextmapping activities, Postgraduate, A.DENİZ(Student), 2010

PEDGLEY O. F. , The influence of sound properties on the semantic associations of product sounds, Postgraduate, J.CLAİRE(Student), 2010

PEDGLEY O. F. , Communication of smart materials: bridging the gap between material innovation and product design, Postgraduate, T.Akn(Student), 2009

PEDGLEY O. F. , A comparative analysis of designers' intended messages and users' perceived messages embodied in product appearance, Postgraduate, J.KHALAJ(Student), 2009

## Jury Memberships

Competition, iF Design Talent Awards 2021-02, iF, September, 2021

Competition, iF Design Talent Awards 2021-02, iF, September, 2021

Doctorate, Doctorate, SS. Cyril & Methodius University, May, 2021

Doctorate, Doctorate, Middle East Technical University, March, 2021

Doctorate, Doctorate, Middle East Technical University, February, 2021

## Designed Programs

Şener Pedgley B., Börekçi N. A. G. Z. , Pedgley O. F. , Ünlü C. E. , Hekkert P., Diehl J., Kuijter L., Undergraduate Double Major, Birbirine Bağlı Çoklu Diploma, ODTÜ-TUDeft Etkileşim için Tasarım Uluslararası Ortak Yüksek Lisans Programı [International METU-TUDeft Joint Master of Science Programme for Design Research for Interaction], 2008 - 2017

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A semantic discontinuity detection (SDD) method for comparing designers' product expressions with users' product impressions**  
Khalaj J., Pedgley O.  
DESIGN STUDIES, vol.62, pp.36-67, 2019 (Journal Indexed in SCI)
- II. **Embracing Material Surface Imperfections in Product Design**  
PEDGLEY O. F. , ŞENER PEDGLEY B., Lilley D., Bridgens B.  
INTERNATIONAL JOURNAL OF DESIGN, vol.12, no.3, pp.21-33, 2018 (Journal Indexed in SCI)
- III. **Materials experience as a foundation for materials and design education**  
PEDGLEY O. F. , Rognoli V., Karana E.  
INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, vol.26, no.4, pp.613-630, 2016 (Journal Indexed in SCI)
- IV. **Sample libraries to expedite materials experience for design: A survey of global provision**  
Akin F., Pedgley O.  
MATERIALS & DESIGN, vol.90, pp.1207-1217, 2016 (Journal Indexed in SCI)
- V. **Emerging material experiences**

Karana E., PEDGLEY O. F. , Rognoli V., Korsunsky A.  
MATERIALS & DESIGN, vol.90, pp.1248-1250, 2016 (Journal Indexed in SCI)

VI. **On Materials Experience**

Karana E., PEDGLEY O. F. , Rognoli V.  
DESIGN ISSUES, vol.31, no.3, pp.16-27, 2015 (Journal Indexed in AHCI)

VII. **Comparison of Semantic Intent and Realization in Product Design: A Study on High-End Furniture Impressions**

Khalaj J., PEDGLEY O. F.  
INTERNATIONAL JOURNAL OF DESIGN, vol.8, no.3, pp.79-96, 2014 (Journal Indexed in SCI)

VIII. **Rob armstrong – over 40 years of outstanding guitar making in England’s heartland**

PEDGLEY O. F. , Norman E.  
Craft Research, vol.5, no.1, pp.111-120, 2014 (Journal Indexed in SCI Expanded)

IX. **Materials Innovation in Acoustic Guitars: Challenging the Tonal Superiority of Wood**

PEDGLEY O. F. , Norman E.  
LEONARDO MUSIC JOURNAL, vol.22, pp.17-24, 2012 (Journal Indexed in AHCI)

X. **INVIGORATING INDUSTRIAL DESIGN MATERIALS AND MANUFACTURING EDUCATION**

PEDGLEY O. F.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.27, no.2, pp.339-360, 2010 (Journal Indexed in AHCI)

XI. **SPECIAL FILE: FUTURES FOR MATERIALS AND INDUSTRIAL DESIGN EDUCATION**

Pedgley O.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.27, no.2, pp.265-269, 2010 (Journal Indexed in AHCI)

XII. **Influence of Stakeholders on Industrial Design Materials and Manufacturing Selection**

PEDGLEY O. F.  
INTERNATIONAL JOURNAL OF DESIGN, vol.3, no.1, pp.1-15, 2009 (Journal Indexed in SCI)

XIII. **MATERIALS-INSPIRED INNOVATION FOR ACOUSTIC GUITAR DESIGN**

PEDGLEY O. F. , Norman E., Armstrong R.  
METU JOURNAL OF THE FACULTY OF ARCHITECTURE, vol.26, no.1, pp.157-175, 2009 (Journal Indexed in AHCI)

XIV. **Capturing and analysing own design activity**

PEDGLEY O. F.  
DESIGN STUDIES, vol.28, no.5, pp.463-483, 2007 (Journal Indexed in SCI)

XV. **Integration of design projects within a Ph.D.**

PEDGLEY O. F. , Wormald P.  
DESIGN ISSUES, vol.23, no.3, pp.70-85, 2007 (Journal Indexed in AHCI)

XVI. **DDR4 (Designing Design Research 4) - Event review and reflections**

PEDGLEY O. F.  
DESIGN ISSUES, vol.21, no.3, pp.82-85, 2005 (Journal Indexed in AHCI)

## Articles Published in Other Journals

I. **A Collaborative Mass Customization Design Project on Electronic Consumer Goods**

Sel S. K. , PEDGLEY O. F.  
International Journal of Industrial Engineering and Management, vol.3, no.4, pp.215-221, 2012 (Refereed Journals of Other Institutions)

II. **Design decision-making and materials: research agendas and gathering evidence**

Norman E., Pedgley O. F. , Coles R.  
Journal of Design and Technology Education, vol.9, no.2, pp.107-115, 2004 (Refereed Journals of Other Institutions)

III. **Topple dangers posed by free-standing soccer goalposts**

Pedgley O. F. , Haake S.  
Sports Engineering, vol.5, no.1, pp.53-63, 2002 (Journal Indexed in ESCI)

## Books & Book Chapters

- I. **Expert Interview: What Are The Changes Required In The Industrial World To Adapt To Circular Materials Innovation?**  
Pedgley O. F.  
in: Material Designers: Boosting Talent Towards Circular Economies, Cleries L,Rognoli V,Solanki S,Llorach P, Editor, Elisava / Politecnico di Milano / Matter, Barcelona, pp.62, 2021
- II. **Relentless Materiality**  
Pedgley O. F.  
in: The Material Side of Design: The Future Material Design Cultures, De Giorgi C,Lerma B,Dal Palu D, Editor, Umberto Allemandi, Turin, pp.10-15, 2020
- III. **Resistant Materials in Technology Education**  
ŞENER PEDGLEY B., Pedgley O.  
in: Handbook of Technology Education, de Vries, Marc J., Editor, Springer, pp.319-336, 2017
- IV. **Materials Experience: Fundamentals of Materials and Design**  
Karana E. (Editor), Pedgley O. F. (Editor), Rognoli V. (Editor)  
Elsevier Science, Oxford/Amsterdam , Oxford, 2014
- V. **Materials Selection for Product Experience: New Thinking, New Tools**  
Pedgley O. F.  
in: Materials Experience: Fundamentals of Materials and Design, Karana E,Pedgley O,Rognoli V, Editor, Elsevier Science, Oxford/Amsterdam , Oxford, pp.337-349, 2014
- VI. **Introduction to Materials Experience**  
Karana E., Pedgley O. F. , Rognoli V.  
in: Materials Experience: Fundamentals of Materials and Design, Karana E.,Pedgley O,Rognoli V, Editor, Elsevier Science, Oxford/Amsterdam , Oxford, pp.25-33, 2014

## Refereed Congress / Symposium Publications in Proceedings

- I. **WEARABLE TACTUAL COMMUNICATORS: DESIGNING PRODUCTS WITH TECHNOLOGY-MEDIATED TOUCH**  
Şener Pedgley B., Pedgley O. F.  
DS 110: Proceedings of the 23rd International Conference on Engineering and Product Design Education (E&PDE 2021), Helsingor, Denmark, 9 - 10 September 2021, pp.1244-1262
- II. **Ürün-Kullanıcı Deneyiminde Dokunma Hissinin Haptik Teknolojilerle Zenginleştirilmesi**  
Şener Pedgley B., Pedgley O.  
4. UTAK 2020 Ulusal Tasarım Araştırmaları Konferansı, Ankara, Turkey, 8 - 10 September 2020, pp.167-178
- III. **To Simulate or Not to Simulate? Challenges in Digitally Prototyping HMI Interactive Technologies**  
Yardim Sener S., Pedgley O. F.  
1st International Conference on Progress in Digital and Physical Manufacturing, ProDPM 2019, Leiria, Portugal, 2 - 04 October 2019, pp.82-88
- IV. **Barriers and opportunities for integrating sustainable product design into Ankara small and medium-sized furniture enterprises**  
Okursoy M. E. , Pedgley O. F.  
29th International Conference Research for Furniture Industry, Ankara, Turkey, 19 - 20 September 2019, pp.1-15
- V. **Rapid development of materials experience through active learning**  
Pedgley O. F.  
DRS LearnXdesign 2019 5th International Conference for Design Education Researchers, Ankara, Turkey, 9 - 12 July 2019, pp.521-530
- VI. **Accelerating students' capability in design for interaction**  
Şener Pedgley B., Pedgley O. F.

DRS LearnXdesign 2019 5th International Conference for Design Education Researchers, Ankara, Turkey, 9 - 12 July 2019

- VII. **Yaşlılar için Evde E-Sağlık Çözümleri**  
ŞENER PEDGLEY B., Pedgley O., HASDOĞAN G. F.  
UTAK 2018 Ulusal Tasarım Araştırmaları Konferansı: Tasarım ve Umut, Turkey, 12 - 14 September 2018
- VIII. **Simulated CMF as a credible representation method for experimental design studies**  
Ulusoy B., Olgunturk N., PEDGLEY O. F.  
14th Conferenza del Colore, Florence, Italy, 11 - 12 September 2018
- IX. **Product experience and luxury values**  
YARDIM ŞENER S., Şen G., Pedgley O., ŞENER PEDGLEY B., Murray G.  
10th International Conference on Design and Emotion, D and E 2016, Amsterdam, Netherlands, 27 - 30 September 2016, pp.107-113
- X. **Designing for multisensorial interactive product experiences**  
ŞENER PEDGLEY B., Pedgley O. F.  
17th International Conference on Engineering and Product Design Education, E and PDE 2015, Loughborough, England, 3 - 04 September 2015, pp.406-411
- XI. **Nine ways to wake up: Bedside alarm clocks designed by a 'meaningful interaction' learning approach**  
Sener B., Pedgley O. F.  
9th International Conference on Design and Emotion 2014, Bogota, Cali and Medellin, Colombia, 6 - 10 October 2014, pp.698-705
- XII. **Product names as a medium of communication from designers to target users**  
Khalaj J., Pedgley O. F.  
8th International Conference on Design and Emotion: Out of Control, London, England, 11 - 14 September 2012
- XIII. **So, what comes next? constructive randomness within products**  
Sener B., Pedgley O. F.  
8th International Conference on Design and Emotion: Out of Control, London, England, 11 - 14 September 2012
- XIV. **Natural fibre composites in product design: An investigation into material perception and acceptance**  
Rognoli V., Karana E., Pedgley O. F.  
2011 Conference on Designing Pleasurable Products and Interfaces, DPPI 2011, Milan, Italy, 22 - 25 June 2011
- XV. **Developments in user-centred materials selection for industrial design**  
Pedgley O. F.  
13th International Conference on Engineering and Product Design Education, E and PDE 2011, London, England, 8 - 09 September 2011, pp.654-659
- XVI. **A synopsis of materials and manufacturing expertise for trainee industrial designers**  
Pedgley O. F. , Norman E.  
10th International Conference on Engineering and Product Design Education, E and PDE 2008, Newcastle, England, 13 - 14 September 2007, pp.167-172
- XVII. **Design decision-making and materials - Investigations in the context of recycled polymers**  
Norman E., Pedgley O. F. , Coles R.  
Design and Manufacture for Sustainable Development 2004, Loughborough, England, 1 - 02 September 2004, pp.209-219

## **Supported Projects**

Pedgley O. F. , Erasmus Project, D.Doc: An Open Educational Resource (OER) to facilitate transparency, internationalisation and evidence of excellence for the European doctorate in design, 2020 - 2022

PEDGLEY O. F. , Project Supported by Higher Education Institutions, Endüstriyel Tasarım Malzeme Deneyim Laboratuvarı Altyapı Projesi, 2012 - 2013

## **Activities in Scientific Journals**

YEDİ, Advisory Committee Member, 2020 - Continues

Design Studies, Advisory Committee Member, 2020 - Continues

## **Scientific Refereeing**

Journal of Design Research, Other Indexed Journal, January 2021

INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, Journal Indexed in SCI-E, January 2021

DESIGN JOURNAL, Journal Indexed in AHCI, January 2021

INTERNATIONAL JOURNAL OF TECHNOLOGY AND DESIGN EDUCATION, Journal Indexed in SCI-E, January 2020

Disena, Other Indexed Journal, January 2020

She Ji: The Journal of Design, Economics and innovation, Other Indexed Journal, January 2020

INTERNATIONAL JOURNAL OF DESIGN, Journal Indexed in SSCI, January 2020

DESIGN STUDIES, Journal Indexed in SCI-E, January 2020

Design For Health, Other Indexed Journal, January 2020

DESIGN JOURNAL, Journal Indexed in AHCI, January 2020

MATERIALS & DESIGN, SCI Journal, January 2020

METU JOURNAL OF THE FACULTY OF ARCHITECTURE, Journal Indexed in AHCI, January 2020

MATERIALS & DESIGN, SCI Journal, January 2019

## **Citations**

Total Citations (WOS):141

h-index (WOS):6