



# SEDEM KURŞUN

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABB-1235-2020

ScopusID: 49963664100

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## Learning Knowledge

Doctorate 2009 - 2011	Université des Sciences et Technologie de Lille: Lille I, Automatique, Génie Informatique, Traitement Du Signal Et Des Images, Bilgisayar Mühendisliği (DR), France
Doctorate 2007 - 2011	Istanbul Technical University, Fen Bilimleri Enstitüsü, Textile Engineering (PhD), Turkey
Postgraduate 2005 - 2007	Istanbul Technical University, Fen Bilimleri Enstitüsü, INDUSTRIAL ENGINEERING (MSc), Turkey
Undergraduate 2001 - 2005	Istanbul Technical University, Makina, TEXTILE ENGINEERING, Turkey

## Foreign Languages

English

## Dissertations

Doctorate, Wearable Obstacle Avoidance System Integrated with Conductive Yarns For Visually Impaired People, Université des Sciences et Technologie de Lille: Lille I, Automatique, Génie Informatique, Traitement Du Signal Et Des Images, 2011

Doctorate, Wearable Obstacle Detection System Fully Integrated To Textile Structures For Visually Impaired People, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği (Dr), 2011

Postgraduate, Tekstil Endüstrisinde Benzetim Tekniği İle Üretim Hattı Modellemesi Ve Uygun İş Akış Stratejisinin Belirlenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Endüstri Mühendisliği Anabilim Dalı, 2007

## Academic Titles / Tasks

Associate Professor 2019 - Continues	Istanbul Technical University, Makina, Makina Mühendisliği
Associate Professor 2016 - 2019	Istanbul Technical University, Tekstil Teknolojileri ve Tasarımı, Tekstil Mühendisliği
Assistant Professor 2012 - 2016	Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı Fakültesi, Tekstil Mühendisliği Bölümü
Research Assistant 2005 - 2012	Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı Fakültesi, Tekstil Mühendisliği Bölümü

## Supported Projects

1. Kurşun Bahadır S., TUBITAK Project, Giyilebilir Teknolojilere Yönelik E-Tekstil Tabanlı Esnek Sıcaklık Sensörünün Geliştirilmesi, 2019 - 2020
2. Kurşun Bahadır S., Kalaoğlu F., H2020 Project, ETEXWELD - Welding of E-Textiles for Interactive Clothing, 2015 - 2020
3. Kurşun S., Karabulut E., Project Supported by Higher Education Institutions, Giyilebilir elektronik uygulamalarına yönelik yüksek sıcaklıklara dayanıklı veri iletim kalitesi yüksek e-tekstil yapılarının geliştirilmesi, 2018 - 2019
4. Kurşun S., Project Supported by Higher Education Institutions, KAYNAK DİKİŞ YAPILMIŞ ÖRME E-KUMAŞLARIN ELEKTRİKSEL İSITMA PERFORMANSLARININ DEĞERLENDİRİLMESİ, 2015 - 2018
5. Kurşun S., Project Supported by Higher Education Institutions, Yapay Sinir Ağlarında Yararlanılarak Akıllı Tekstil Yapısı ile Cisim Konumu Testpiti, 2012 - 2018
6. Kurşun Bahadır S., Göncü Berk G., TUBITAK Project, Romatoid Artrit Semptomlarını Azaltmaya Yardımcı Terapi Amaçlı Akıllı Eldiven Tasarımı, 2015 - 2017
7. Kurşun Bahadır S., TUBITAK Project, Kaynak Dikiş Teknolojisi İle E Tekstil Sinyal İletim Hatları Tasarımı Ve Kaynak Dikiş Prosesi Parametrelerinin E Tekstil Sinyal İletim Hattı Üretimi İçin Optimizasyonu, 2015 - 2017
8. Kurşun Bahadır S., Industrial Thesis Project, Kaynak Dikiş Teknolojisine Dayalı ETekstil Tabanlı Termal Isı Panellerinin Geliştirilmesi 0034 TGSD 2015 2, 2015 - 2016
9. Kurşun Bahadır S., TUBITAK Project, Kaynak Dikiş Teknolojisi İle E-Tekstil Sinyal İletim Hatları Tasarımı Ve Kaynak Dikiş Prosesi Parametrelerinin E-Tekstil Sinyal İletim Hattı Üretimi İçin Optimizasyonu, 2015 - 2016
10. Kurşun Bahadır S., TUBITAK Project, Sıcak Hava Kaynak Dikiş Teknolojisi ile Oluşturulmuş E Tekstil Sinyal İletim Hatlarının Bilgisayar Modellemesi ve Simülasyonu The modeling and simulation of e textile transmission lines manufactured by hot air welding technology, 2014 - 2015
11. Kurşun S., Project Supported by Higher Education Institutions, Tekstil Önterbiye ve Boyama İşlemlerinin İletken İpliklerle Oluşturulmuş E-Tekstil Yapılarına Etkisi, 2012 - 2015
12. Kurşun Bahadır S., TUBITAK Project, • Tekstilde Terbiye İşlemlerinin Tekstil Malzemelerinin Mekanik ve Dökümlülük Parametrelerine Etkisinin Yeni Teknolojiler Kullanılarak İncelenmesi, 2008 - 2011

## Awards

1. Kurşun Bahadır S., İTÜ Akademik Performans Ödülü (2016-2021 yılları arası)-Makina Mühendisliği, İstanbul Teknik Üniversitesi, May 2022
2. Kurşun Bahadır S., MARIE SKŁODOWSKA-CURIE Fellowship Award , European Commission, June 2020

3. Kurşun Bahadır S., İTÜ ARI Teknokent Bitirme Tasarım Projesi Yarışması (Akademik Danışman Ödülü), İtü Arı Teknokent, June 2017
4. Kurşun Bahadır S., Systex (Platform for Smart Textiles and Wearable Microsystems) International Student Award 2011, Ghent University (Belgium)-Vf Corporation (Usa), March 2012
5. Kurşun Bahadır S., Théophile Legrand International Award For Textile Innovation 2011, Fransa Enstitüsü, September 2011
6. Kurşun Bahadır S., V. Necdet Eraslan Proje Yarışması 2011, TMMOB Makina Mühendisleri Odası, June 2011

## Scholarships

Yurtdışı Doktora Sırası Araştırma Görevlisi Destekleme Bursu, University, 2010 - 2011

Yurtdışı Full Doktora Bursu, Official Institutions of Foreign Countries, 2009 - 2011

Yurtdışı Doktora Sırası Araştırma Bursu, Other Government Agencies, 2009 - 2010

Yurtiçi Araştırma Görevlisi Başarı Bursu, Foundation, 2008 - 2009

## Designed Lessons

Kurşun Bahadır S., Introduction to Smart Textiles and Wearable Technologies, Undergraduate, 2018 - 2019

Kurşun Bahadır S., E-Textiles & Wearable Computing System, Postgraduate, 2018 - 2019

## Published journal articles indexed by SCI, SSCI, and AHCI

1. **UHF-RFID enabled wearable flexible printed sensor with antenna performance**  
Tekçin M., Paker S., Kurşun Bahadır S.  
AEU-INTERNATIONAL JOURNAL OF ELECTRONICS AND COMMUNICATIONS, vol.157, 2022 (SCI-Expanded)
2. **Inkjet-Printed CNT/PEDOT:PSS Temperature Sensor on a Textile Substrate for Wearable Intelligent Systems**  
Kuzubasoglu B. A., Sayar E., Kurşun Bahadır S.  
IEEE SENSORS JOURNAL, vol.21, no.12, pp.13090-13097, 2021 (SCI-Expanded)
3. **Wearable temperature sensor for human body temperature detection**  
Kuzubasoglu B. A., Sayar E., Cochrane C., Koncar V., Kurşun Bahadır S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.32, no.4, pp.4784-4797, 2021 (SCI-Expanded)
4. **Flexible temperature sensors: A review**  
Kuzubasoglu B. A., Kurşun Bahadır S.  
SENSORS AND ACTUATORS A-PHYSICAL, vol.315, 2020 (SCI-Expanded)
5. **Signal transfer via smart conductive networks for high temperature performing wearable electronics**  
Karabulut E., Kurşun Bahadır S.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.18, pp.15996-16007, 2020 (SCI-Expanded)
6. **Futuristic Clothes: Electronic Textiles and Wearable Technologies**  
İşmar Şir E., Kurşun Bahadır S., Kalaoğlu F., Koncar V.  
GLOBAL CHALLENGES, vol.4, no.7, 2020 (SCI-Expanded)
7. **Human Action Recognition Using Deep Learning Methods on Limited Sensory Data**  
Tufek N., Yalcin M., Altıntaş M., Kalaoğlu F., Li Y., Kurşun Bahadır S.  
IEEE SENSORS JOURNAL, vol.20, no.6, pp.3101-3112, 2020 (SCI-Expanded)
8. **Electromagnetic Shielding and Reflection Loss of Conductive Yarn Incorporated Woven Fabrics at**

### **the S and X Radar Bands**

Kurşun Bahadır S., Mitilineos S. A., Symeonidis S., Şahin U. K., Vassiliadis S., Kalaoğlu F., Goustouridis D., Stathopoulos N., Savvaidis S. P.

JOURNAL OF ELECTRONIC MATERIALS, vol.49, no.3, pp.1579-1587, 2020 (SCI-Expanded)

9. **Protocol to assess the quality of transmission lines within smart textile structures**  
Atakan R., Açıkgöz Tufan H., Zaman S. U., Cochrane C., Kurşun Bahadır S., Koncar V., Kalaoğlu F.  
MEASUREMENT, vol.152, 2020 (SCI-Expanded)
10. **Development of textile-based transmission lines using conductive yarns and ultrasonic welding technology for e-textile applications**  
Atalay Ö., Kalaoğlu F., Kurşun Bahadır S.  
JOURNAL OF ENGINEERED FIBERS AND FABRICS, vol.14, 2019 (SCI-Expanded)
11. **Measured Current Characteristics of Powered E-Textile Transmission Lines with Respect to Welding Process Parameters**  
Kurşun Bahadır S., Şahin U. K.  
TEKSTİL VE KONFEKSİYON, vol.29, no.2, pp.97-104, 2019 (SCI-Expanded)
12. **The effects of finishing processes on the dynamic drape of wool fabrics**  
Eryürük S. H., Kurşun Bahadır S., Sarıçam C., Kalaoğlu F.  
INTERNATIONAL JOURNAL OF CLOTHING SCIENCE AND TECHNOLOGY, vol.31, no.2, pp.195-206, 2019 (SCI-Expanded)
13. **Optimization of hot air welding process parameters for manufacturing textile transmission lines for e-textiles applications: Part I: Electro-conductive properties**  
Bahadır S., JEVSNIK S.  
TEXTILE RESEARCH JOURNAL, vol.87, no.2, pp.232-243, 2017 (SCI-Expanded)
14. **Color and electrical resistance evaluation of cotton fabrics composed of stainless steel yarns treated with direct and reactive dyes**  
Bahadır S., JEVSNIK S., FAKIN D., SAHIN U. K.  
TEXTILE RESEARCH JOURNAL, vol.86, no.13, pp.1356-1371, 2016 (SCI-Expanded)
15. **Smart shirt for obstacle avoidance for visually impaired persons**  
Kurşun Bahadır S., Koncar V., Kalaoglu F.  
SMART TEXTILES AND THEIR APPLICATIONS, no.178, pp.33-70, 2016 (SCI-Expanded)
16. **Decision of sensor location and best classification method for entrail and muscle disease detection in healthcare smart clothing based on acceleration measurements**  
Bahadır S.  
TRANSACTIONS OF THE INSTITUTE OF MEASUREMENT AND CONTROL, vol.37, no.8, pp.999-1008, 2015 (SCI-Expanded)
17. **The Use of Hot Air Welding Technologies for Manufacturing E-textile Transmission Lines**  
Bahadır S., KALAOGLU F., JEVSNIK S.  
FIBERS AND POLYMERS, vol.16, no.6, pp.1384-1394, 2015 (SCI-Expanded)
18. **Use of artificial Neural Networks for Modelling the Drape Behaviour of woollen Fabrics Treated with Dry Finishing Processes**  
KURŞUN BAHADIR S., Kalaoğlu F., simona J., ERYÜRÜK S. H., SARIÇAM C.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.23, no.2, pp.1230-3666, 2015 (SCI-Expanded)
19. **The Effect of Textile Pretreatment Processes on Signal Transferring Capability of Textile Transmission Lines**  
Kurşun Bahadır S.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.23, pp.55-62, 2015 (SCI-Expanded)
20. **THE EVALUATION OF STIFFNESS AND DRAPE BEHAVIOUR OF WOOL FABRICS**  
Eryürük S. H., Kalaoğlu F., Kurşun Bahadır S., Sarıçam C., Jevsnik S.  
Tekstil ve Mühendis, vol.22, no.98, pp.24-32, 2015 (SCI-Expanded)
21. **Use of Artificial Neural Networks for Modelling the Drape Behaviour of Woollen Fabrics Treated with Dry Finishing Processes**

- Kurşun Bahadır S., Kalaoğlu F., Jeysnik S., Eryürük S. H., Sarıçam C.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.23, no.2, pp.90-99, 2015 (SCI-Expanded)
22. **Selection of appropriate e textile structure manufacturing process prior to sensor integration using AHP**  
Bahadır M. Ç., Kurşun Bahadır S.  
INTERNATIONAL JOURNAL OF ADVANCED MANUFACTURING TECHNOLOGY, vol.76, no.9, pp.1719-1730, 2015 (SCI-Expanded)
23. **Use of artificial neural networks for modelling the drape behaviour of woollen fabrics treated with dry finishing processes Zastosowanie sztucznych sieci neuronowych dla modelowania układalności wełnianych tkanin poddanych procesom suchego wykańczania**  
Kurşun Bahadır S., Kalaoğlu F., JEVSNIK S., Hanife Eryuruk S., Sarıçam C.  
Fibres and Textiles in Eastern Europe, vol.23, no.2, pp.90-99, 2015 (SCI-Expanded)
24. **Analysing the effect of decatizing on the frictional properties of wool fabrics**  
ERYÜRÜK S. H., Kalaoğlu F., KURŞUN BAHADIR S., Simona J.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.22, no.3, pp.79-83, 2014 (SCI-Expanded)
25. **An algorithm based on neuro fuzzy controller implemented in a smart clothing system for obstacle avoidance**  
Kurşun Bahadır S., Koncar V., Kalaoğlu F.  
International Journal of Computational Intelligence Systems, vol.6, no.3, pp.503-517, 2013 (SCI-Expanded)
26. **Analysis of Vibrotactile Perception via e Textile Structure Using Fuzzy Logic**  
Kurşun Bahadır S., Kalaoğlu F., Koncar V.  
Fibres & Textiles in Eastern Europe, vol.20, pp.91-97, 2012 (SCI-Expanded)
27. **Crosstalk Effect In A Fabric Circuit Developed For Multi Connection Of Sonar Sensors**  
Kurşun Bahadır S., Kalaoğlu F., Koncar V.  
Tekstil ve Konfeksiyon, vol.22, no.3, pp.197-202, 2012 (SCI-Expanded)
28. **Assessing the Signal Quality of an Ultrasonic Sensor on Different Conductive Yarns Used as Transmission Lines**  
Kurşun Bahadır S., Koncar V., Kalaoğlu F., Cristian I., Thomassey S.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.19, no.5, pp.75-81, 2011 (SCI-Expanded)
29. **Assessing the signal quality of an ultrasonic sensor on different conductive yarns used as transmisson lines**  
KURŞUN BAHADIR S., Vladan K., Kalaoğlu F.  
FIBRES & TEXTILES IN EASTERN EUROPE, vol.19, no.5, pp.75-81, 2011 (SCI-Expanded)
30. **A Study on The Beam Pattern of Ultrasonic Sensor Integrated to Textile Structure**  
Kurşun Bahadır S., Kalaoğlu F., Koncar V.  
International Journal of Clothing Science and Technology, vol.23, no.4, pp.232-241, 2011 (SCI-Expanded)
31. **LINE BALANCING BY SIMULATION IN A SEWING LINE**  
Kurşun Bahadır S., Kalaoğlu F.  
TEKSTİL VE KONFEKSİYON, vol.20, no.3, pp.257-261, 2010 (SCI-Expanded)
32. **Dikim Bandında Simulasyonla Bant Dengeleme**  
Kurşun Bahadır S., KALAOĞLU F.  
Tekstil ve Konfeksiyon, vol.20, no.3, pp.257-261, 2010 (SCI-Expanded)
33. **Production line modelling in clothing industry by simulation**  
Kurşun Bahadır S., Dincmen M., Kalaoğlu F.  
TEKSTİL, vol.58, no.5, pp.186-195, 2009 (SCI-Expanded)
34. **Simulation of Production line balancing in apparel manufacturing**  
KURŞUN BAHADIR S., Kalaoğlu F.  
Fibers and textiles in eastern Europe, vol.17, no.4, pp.68-71, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- 1. Electrical connection issues on wearable electronics**  
Matsouka D., Vassiliadis S., Tao X., Vladan K., KURŞUN BAHADIR S., KALAOĞLU F., Jevšnik S.  
IOP Conference Series: Materials Science and Engineering, vol.459, pp.12017, 2018 (Peer-Reviewed Journal)
- 2. Seam Strength and Washability of Silver Coated Polyamide Yarns**  
İŞMAR E., Zaman S., KURŞUN BAHADIR S., KALAOĞLU F., Koncar V.  
IOP Conference Series: Materials Science and Engineering, vol.460, no.12053, 2018 (Peer-Reviewed Journal)
- 3. Design of an Electronic Chest-Band**  
ATAKAN R., AÇIKGÖZ H., BAŞKAN H., ERYÜRÜK S. H., AKALIN N., KÖSE H., Li Y., KURŞUN BAHADIR S., KALAOĞLU F.  
IOP Conference Series: Materials Science and Engineering, vol.254, pp.72002, 2017 (Scopus)
- 4. Running functional sport vest and short for e-textile applications**  
BAŞKAN H., AÇIKGÖZ H., ATAĞAN R., ERYÜRÜK S. H., AKALIN N., KÖSE H., Li Y., KURŞUN BAHADIR S., KALAOĞLU F.  
IOP Conference Series: Materials Science and Engineering, vol.254, pp.72004, 2017 (Scopus)
- 5. Effects of Home Laundering on Electrical Resistance of Signal Transmission Lines on Colored E-Textiles**  
ŞAHİN U. K., KURŞUN BAHADIR S.  
Journal of Energy and Power Engineering, vol.11, no.5, 2017 (Peer-Reviewed Journal)
- 6. Investigation of Heating Behaviour of E-textile Structures**  
Sezgin H., Kurşun Bahadır S., Böke Y. E., Kalaoğlu F.  
International Journal of Environmental, Chemical, Ecological, Geological and Geophysical Engineering, vol.9, no.5, pp.474-477, 2015 (Peer-Reviewed Journal)
- 7. Konfeksiyon İşletmelerinde Benzetimin Önemi**  
KURŞUN BAHADIR S.  
KONFEKSİYON TEKNİK, vol.14, no.164, pp.82-84, 2008 (Peer-Reviewed Journal)
- 8. A study of assembly line balancing problem in clothing manufacturing by simulation**  
KURŞUN BAHADIR S., KALAOĞLU F., bahadır ç., GÖCEK İ.  
PROCEEDINGS OF THE 16TH IASTED INTERNATIONAL CONFERENCE ON APPLIED SIMULATION AND MODELLING, pp.94-98, 2007 (Peer-Reviewed Journal)
- 9. The Perception of Customer Satisfaction in Textile Industry According to Genders in Turkey**  
GÖCEK İ., KURŞUN BAHADIR S., BECEREN Y.  
International Journal of Materials and Textile Engineering, vol.1, no.6, pp.193-196, 2007 (Peer-Reviewed Journal)
- 10. Nanotechnology Applications In Textile Industry**  
GÖCEK İ., KURŞUN BAHADIR S., Küçük G.  
Nonwoven Technical Textiles Technology Magazine, vol.14, pp.64-69, 2007 (Peer-Reviewed Journal)

## Books & Book Chapters

- 1. Electronic Textiles (E-Textiles): Fabric Sensors and Material-Integrated Wearable Intelligent Systems**  
Arman Kuzubaşoğlu B., Tekçin M., Kurşun Bahadır S.  
in: Reference Module in Biomedical Sciences, Mehmet Yüce, Roger Narayan, Editor, Elsevier Science, Oxford/Amsterdam, Oxford, pp.1-10, 2021
- 2. A wearable heating system with a controllable e-textile-based thermal panel**  
KURŞUN BAHADIR S., ŞAHİN U. K.  
in: Wearable Technologies, Jesus Hamilton Ortiz, Editor, InTechOpen, Londrina, pp.175-194, 2018
- 3. Chapter 10: Applying Heat for Joining Textile Materials**  
Jevšnik S., Vassiliadis S., Kurşun Bahadır S., Grujić D., Zoran S.  
in: Joining Technologies, Mahadzir Ishak, Editor, Intech, Open Access, pp.217-241, 2016
- 4. Chapter 3: Smart shirt for obstacle avoidance for visually impaired persons**

Kurşun Bahadır S., KALAOĞLU F., Koncar V.

in: SMART TEXTILES AND THEIR APPLICATIONS, Vladan Koncar, Editor, Woodhead Publishing Limited , Duxford, pp.33-70, 2016

5. **Chapter 35: Performance Evaluation of Welded Knitted E-Fabrics for Electrical Resistance Heating**, Kurşun Bahadır S., KALAOĞLU F., ATALAY O., Vassiliadis S., Potirakis S.  
in: Lecture Notes in Electrical Engineering 365, Leopoldo Angrisani,, Editor, Springer Science+Business Media Singapore, Singapore, pp.327-335, 2016
6. **Chapter 5: Assembly Line Balancing in Garment Production by Simulation**  
Kurşun Bahadır S.  
in: Assembly Line - Theory and Practice, Waldemar Grzechca , Editor, Intech, Open Access, pp.67-82, 2011

## Refereed Congress / Symposium Publications in Proceedings

1. **Performance Analysis of Wearable and Flexible Humidity Sensor Integrated to Face Mask for Respiration Monitoring**  
TEKÇİN M., Arman Kuzubaşoğlu B., SAYAR E., YALÇIN M. K., KURŞUN BAHADIR S.  
2021 IEEE 3rd Eurasia Conference on IOT, Communication and Engineering (ECICE), Yuanlin, Taiwan, 29 - 31 October 2021, pp.663-666
2. **COMPARISON OF ELECTROMAGNETIC SHIELDING EFFECTIVENESS OF THE ELECTRO-CONDUCTIVE KNITTED FABRICS**  
ŞAHİN U. K., KURŞUN BAHADIR S., AÇIKGÖZ TUFAN H., batçık c., ayata konukoğlu s.  
Autex2021 Conference, Mino, Japan, 05 September 2021
3. **ACHIEVING SECOND-SKIN EFFECT WITH JERSEY KNITTED FABRICS COMPRISING DOUBLE-CORE SPUN YARNS**  
ayata konukoğlu s., batçık c., AÇIKGÖZ TUFAN H., ŞAHİN U. K., KURŞUN BAHADIR S.  
Autex2021 Conference, Mino, Japan, 05 September 2021
4. **Investigation on the effect of knitting construction on the comfort properties of 100% cotton fabrics**  
ayata konukoğlu s., batçık c., ayar L. G., Çatak E., AÇIKGÖZ TUFAN H., KURŞUN BAHADIR S., ŞAHİN U. K.  
ICNF 2021 - 5th International Conference on Natural Fibers, Mino, Japan, 17 - 19 May 2021
5. **Effect of elastane fibers on the comfort properties of cotton knitted fabrics**  
ayata konukoğlu s., batçık c., ayar L. G., Çatak E., AÇIKGÖZ TUFAN H., KURŞUN BAHADIR S., ŞAHİN U. K.  
5th (ICNF) International Conference on Natural Fibers, Portekiz, Mino, Japan, 17 - 19 May 2021
6. **AKILLI TEKSTİLLER VE UYGULAMALARI (Davetli Konuşmacı)**  
KURŞUN BAHADIR S.  
Elektrik-Elektronik Mühendisliği Kongresi (EEMKON) 2019, Turkey, 14 - 16 November 2019
7. **İnkjet Baskı Tekniği ile Giyilebilir Sıcaklık Sensörü Tasarımı**  
ARMAN KUZUBAŞOĞLU B., KURŞUN BAHADIR S.  
Elektrik Elektronik Mühendisliği Kongresi 2019 (EEMKON 2019, Turkey, 14 - 16 November 2019
8. **Nakış Yöntemi ile Giyilebilir RFID Anten Tasarımı**  
TEKÇİN M., ATAKAN R., MİTTİLİNEOS S., ERBEN T., KURŞUN BAHADIR S.  
Elektrik Elektronik Mühendisliği Kongresi 2019 (EEMKON 2019, Turkey, 14 - 16 November 2019
9. **Çift-Özlü İpliklerden Mamul Örme Kumaşların Esneme Davranışının İncelenmesi**  
Bozırat M., Ayata Konukoğlu S., Çatak E., Batçık C., ŞAHİN U. K., KURŞUN BAHADIR S.  
Ulusal Çukurova Tekstil Kongresi UÇTEK2019, Adana, Turkey, 26 - 27 September 2019, pp.18-23
10. **Wear Modeling of A Conductive Yarn**  
TETİK T., YÖRÜK B., YILDIZ R. A., labameh a., KURŞUN BAHADIR S., KALAOĞLU F., Vladan K.  
2nd International Conference on Life and Engineering Sciences (ICOLES 2019), 27 - 29 June 2019
11. **Washability of Wearable Electronic Textiles**  
İŞMAR E., KURŞUN BAHADIR S., KALAOĞLU F.  
18th AUREX World Textile Conference, 20 - 22 June 2018

12. **The Effect of ultrasonic welding parameters on the electro-conductive performance of transmission lines**  
KALAOĞLU F., KURŞUN BAHADIR S.  
ege mediteX, IIIrd Int.Congress on Healthcare and Medical Textiles, İzmir, Turkey, 26 - 28 October 2017
13. **The Effect of Filtering on Image Processing of Textile Fabrics**  
ŞAHİN U. K., KURŞUN BAHADIR S.  
IATS 2017 8TH INTERNATIONAL ADVANCED TECHNOLOGIES SYMPOSIUM, 19 - 22 October 2017
14. **Design of a thermal waistpad**  
Açıkgöz Tufan H., Atakan R., Başkan H., Eryürük S. H., Akalın N., Köse H., Li Y., Kurşun Bahadır S., Kalaoğlu F.  
AUTEX 2017, Corfu, Greece, 29 - 31 May 2017, pp.1-6
15. **Running functional sport vest and short for e-textile applications**  
BAŞKAN H., AÇIKGÖZ H., ATAKAN R., ERYÜRÜK S. H., AKALIN N., KÖSE H., LI Y., KURŞUN BAHADIR S., KALAOĞLU F.  
AUTEX 2017, 29 - 31 May 2017
16. **Design of an electronic chest-band**  
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17. **E-Textile Structures for Electric Heat Tracing Application**  
Kurşun Bahadır S., Şahin U. K.  
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18. **Effects of Home Laundering on Electrical Resistance of Signal Transmission Lines on Colored E-Textiles**  
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19. **Two Different Textile Antennas designed For Unipolar Feed And Deployment In Clothing Apparatus**  
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20. **Physiological parameters monitoring of fire-fighters by means of a wearable wireless sensor system**  
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21. **DESIGN OF HEATING PANELS FOR PROTECTIVE CLOTHING**  
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5th International Istanbul Textile Congress 2015, İstanbul, Turkey, 11 - 12 September 2015, pp.1-4
22. **Performance Evaluation Of Welded Knitted E-Fabrics For Electrical Resistance Heating,**  
Kurşun Bahadır S., KALAOĞLU F., ATALAY O., Vassiliadis S., Potirakis S.  
International Conference On Electrical Systems, Technology And Information (ICESTI), Bali, Indonesia, 9 - 12 September 2015, pp.35-38
23. **Quality Assessment Of Hot Air Welded E-Textile Transmission Lines**  
Kurşun Bahadır S., Kalaoğlu F., Jevsnik S.  
5th International Istanbul Textile Congress 2015: Innovative Technologies "Inspire To Innovate", İstanbul, Turkey, 11 - 12 September 2015, pp.45-47
24. **Development Of Textile-Based Temperature Sensor**  
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5th International Istanbul Textile Congress 2015: Innovative Technologies "Inspire To Innovate", İstanbul, Turkey, 11 - 12 September 2015, pp.35-37
25. **Design Of A Textile Linear Spiral Antenna For Medical Imaging**  
Mitilineos S., Vassiliadis S., Grimanis P., ATALAY O., Kalaoğlu F., Kurşun Bahadır S., Potirakis S.  
5th International Istanbul Textile Congress 2015: Innovative Technologies "Inspire To Innovate", İstanbul, Turkey,

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26. **Manufacturing the e textile transmission lines**  
KALAOĞLU F., KURŞUN BAHADIR S., Simona J.  
AUTEX CONFERENCE, Bükreş, Romania, 10 - 12 June 2015
27. **Investigation Of Heating Behaviour Of E Textile Structures**  
SEZGİN H., KURŞUN BAHADIR S., BÖKE Y. E., KALAOĞLU F.  
17th International Conference On Materials Science, Engineering And Manufacturing, Roma, Italy, 5 - 06 May 2015
28. **Identification of Object Positioning through Smart Textile Structure using Artificial Neural Network**  
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International Conference on Machine Learning and Computer Science, Phuket, Thailand, 11 - 12 August 2012, pp.156-158
29. **An Artificial Neural Network Model for Prediction of Bursting Strength of Knitted Fabrics**  
Kurşun Bahadır S., Bahadır Ç., KALAOĞLU F.  
International Conference on Machine Learning and Computer Science, Phuket, Thailand, 11 - 12 August 2012, pp.134-138
30. **Effect of Different Conductive Yarns on Heating Behaviour of Fabrics**  
Sezgin H., Kurşun Bahadır S., Böke Y. E., Kalaoğlu F.  
The 4th RMUTP International Conference: Textiles & Fashion, Bangkok, Thailand, 3 - 04 June 2012, pp.1-4
31. **Examination of the Heat Manner of a Conductive Yarn with a Woven Fabric**  
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1st SMARTEX-Egypt 2011 World Textiles Conference, Kafrelsheik, Egypt, 22 - 24 November 2011, pp.1-4
32. **Comparison Of Multi-Connected Miniaturized Sonar Sensors Mounted On Textile Structure In A Different Position Angle For Obstacle Detection**  
Kurşun Bahadır S., KALAOĞLU F., Vladan K.  
International Conference on Intelligent Textiles & Mass Customisation, Morocco, Morocco, 27 - 29 October 2011, pp.65-68
33. **Multi-Connection of Miniaturized Sonar Sensors onto Textile Structure for Obstacle Detection**  
Kurşun Bahadır S., Kalaoğlu F., Vladan K.  
AUTEX 2011, Mulhouse, France, 8 - 10 June 2011, pp.123-125
34. **The Effect of Finishing Processes on Surface Properties of Wool Fabrics**  
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AUTEX 2011, Mulhouse, France, 8 - 10 June 2011, pp.938-942
35. **The Effect of Decatizing on the Mechanical Properties and Handle of Wool Fabrics**  
Kalaoğlu F., Sariçam C., Kurşun Bahadır S., Eryürük S. H., Jevsnik S.  
CIRAT-4, Monastir, Tunisia, 2 - 05 December 2010, pp.184-187
36. **The Effect Of Decatizing On The Mechanical Properties And Handle Of Wool Fabrics**  
KALAOĞLU F., SARIÇAM C., KURŞUN BAHADIR S., ERYÜRÜK S. H., JEVSNIK S.  
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37. **Comparison On Perceived Vibrotactile Stimuli Of E-Textile Structures By Using Fuzzy Logic**  
Kurşun Bahadır S., Kalaoğlu F., Koncar V., Thomassey S.  
4th International Conference Of Applied Research In Textile, Monastir, Tunisia, 2 - 05 December 2010, pp.26-30
38. **Fuzzy Based Evaluation of Vibrotactile Perception By Using Vibration Motor Embedded To Woven Fabric**  
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ICIT 2010, Seoul, South Korea, 16 - 18 June 2010, pp.28-30
39. **Analyzing The Structure Of Pants Sewing Line In Apparel Manufacturing By Simulation**  
Kurşun Bahadır S., Kalaoğlu F.  
ITMC 2009 International Conference, Morocco, Morocco, 12 - 14 November 2009, pp.32-36
40. **The Usage of New Technologies for Studying The Effect of Finishing Processes on The Mechanical and Drape Parameters of Textile Materials**  
Kalaoğlu F., Jevsnik S., KREŠEVIC S., Eryürük S. H., Kurşun Bahadır S.

- AUTEX 2009, İzmir, Turkey, 26 - 28 May 2009, pp.1
41. **Impact Of Soil Release Finishes On The Physical And Chemical Characteristics Of Woven Fabrics**  
Kurşun Bahadır S., OZCAN G.  
Fiber Society 2008 Spring Conference, Mulhouse, France, 14 - 16 May 2008, pp.26-29
42. **Impact of Soil Release Finishes on Physical and Chemical Characteristics of Woven Fabrics**  
ÖZCAN G., KURŞUN BAHADIR S.  
The Fiber Society 2008 Spring Conference, Proceedings 170, ENSISA, ENSISA, France, 14 - 16 May 2008
43. **The Perception Of Customer Satisfaction In Textile Industry According To Genders In Turkey"**  
Kurşun Bahadır S., Göcek İ., Beceren Y.  
WASET 2007, Nice, France, 12 - 14 October 2007, pp.75-79
44. **A Study Of Assembly Line Balancing Problem In Clothing Manufacturing By Simulation**  
Kurşun Bahadır S., Kalaoğlu F., Göcek İ., Bahadır Ç.  
16th IASTED International Conference On Applied Simulation And Modeling, Palma De Mallorca, Spain, 29 - 31 August 2007, pp.56-62
45. **Nanotechnology For Textile Development**  
GÖCEK İ., KURŞUN BAHADIR S.  
NanoItaltex 2006, 15 - 16 November 2006
46. **Nanotechnology for Textile Industry Development**  
GÖCEK İ., KURŞUN BAHADIR S.  
NanoItalTex 2006, Milan, Italy, 15 - 16 November 2006
47. **Effect Of Anti-Soiling Finishes On Woven Fabric Properties**  
Kurşun Bahadır S., Özcan G.  
3rd International Textile, Clothing & Design Conference - Magic World, Dubrovnik, Hungary, 8 - 11 October 2006, pp.38-42
48. **Sağlık Sistemlerinde Yatırım Kararlarının Faaliyet Tabanlı Maliyetlendirmeye Sınanması", 2006**  
Kurşun Bahadır S., Çebi S.  
26. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi, Kocaeli, Turkey, 3 - 05 July 2006, pp.25-30
49. **Sağlık Sistemlerinde Yatırım Kararlarının Faaliyet Tabanlı Maliyetlendirmeye Sınanması**  
CEBİ S., KURŞUN BAHADIR S.  
26. Yöneylem Araştırması ve Endüstri Mühendisliği Ulusal Kongresi 2006, Turkey, 3 - 05 July 2006
50. **Analyzing The Bottleneck Problems On Production Line In Clothing Manufacturing By Simulation**  
Kurşun Bahadır S., Kalaoğlu F.  
37th International Symposium On Novelties In Textiles, Ljubljana, Slovenia, 15 - 17 June 2006, pp.45-48

## Academic and Administrative Experience

2016 - 2016	<b>Vice Dean</b>	Istanbul Technical University, Tekstil Teknolojileri ve Tasarımı
2015 - 2016	<b>Deputy Head of Department</b>	İstanbul Teknik Üniversitesi, Tekstil Mühendisliği, Tekstil Mühendisliği

## Courses

Sistem Dinamiği ve Kontrol, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
 Measurements Instrumentations, Undergraduate, 2022 - 2023, 2021 - 2022  
 Industrial Applications of Fuzzy Logic, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020  
 Intelligent Systems & Soft Computing, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021  
 Apparel Home Textile Products Manufacturing, Undergraduate, 2018 - 2019  
 Introduction to Smart Textiles and Wearable Technologies, Undergraduate, 2018 - 2019

E-Textiles & Wearable Computing System, Postgraduate, 2019 - 2020, 2018 - 2019  
Intr.to Sci& Eng.Comp.(MATLAB) , Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017  
Functional Wearable Product Design, Postgraduate, 2018 - 2019  
Fabric Development, Undergraduate, 2018 - 2019  
Fab. for Private Label Apparel , Undergraduate, 2018 - 2019  
Garment Design Management, Undergraduate, 2016 - 2017  
Protective Clothing, Doctorate, 2016 - 2017  
Clothing Technology, Undergraduate, 2015 - 2016, 2014 - 2015, 2012 - 2013  
Engineering Mechanics , Undergraduate, 2014 - 2015, 2012 - 2013  
Mechanisms, Undergraduate, 2014 - 2015  
Science of Clothing Comfort , Doctorate, 2012 - 2013

### Activities in Scientific Journals

Journal of Fiber Bioengineering and Informatics, Editor, 2016 - Continues

### Scientific Consultations

ASELSAN, Project Consultancy, Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı Fakültesi, Tekstil Mühendisliği, Turkey, 2016 - Continues

### Metrics

Publication: 104

H-Index (Scopus): 12

### Research Areas

Control and System Engineering, Computer Sciences, algorithms, Simulation and Modelling, System Dynamics and Control, Textile Engineering and Technology, Engineering and Technology

### Non Academic Experience

University of West Attica (GR), Department of Electrical and Electronics Engineering

University of Manchester (UK), Department of Materials

Taiwan Textile Research Institute (Taiwan)

ENSAIT-GEMTEX / Ecole Nationale Supérieure des Arts et Industries Textiles (France)