

## **BIOGRAPHICAL SKETCH**

### **PROF.DR. FATMA KALAOGLU**

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#### **Education :**

**Ph.D.** Department of Textile Engineering, Istanbul Technical University,1991  
**M.Sc** Department of Mechanical Engineering,Istanbul Technical University,1984  
**B.Sc.** Department of Textile Engineering, Uludag University, 1982

#### **Professional Experience :**

2003– Full Professor, Textile Technologies and Design Faculty,Department of Textile Engineering  
 1997-2003 Associate Professor, Department of Textile Engineering of İ.T.U.  
 1992-1997 Assistant Professor, Department of Textile Engineering of İ.T.U.  
 1984-1992 Research Assistant,Department of Textile Engineering of ITU

#### **Undergraduate and Graduate Courses taught :**

- Textile Applications
- Clothing Technology
- Quality Control in Apparel Production
- Material Management in Clothing
- Apparel & Home Textile Manufacturing processes
- Science of Clothing Comfort
- Protective Clothing
- Clothing production Management

#### **Master's and Doctoral Theses supervised :**

Totally 16 master thesis and 6 doctoral thesis have been supervised.

#### **Projects**

1 H2020-MSCA-RISE 2014 ,”ETEXWELD”,Welding of E-Textiles for Interactive Clothing”, PROJECT COORDINATOR,2015-2019,Budget 990.000Euro  
 2. 7<sup>th</sup> FRAMEWORK NMP project,2BFUNTEX “Boosting cooperation between research centres and industry to enhance rapid industrial uptake of innovative functional textile structures and textile related materials in a mondial market”, ITU Coordinator,2012-2015, Budget 1.450.000euro

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3. Bilateral project(Slovenia Maribor university-Turkey ITU ), Coordinator,2007-2010, Budget 40.000 Euro
- 4.Bilateral project (Romania Iasi University–Turkey ITU), Coordinator,2010-2011,Budget 26.000 euro.
- 6 national projects.

### **Personal Data :**

Born in 1959 in Eskişehir, Turkey  
Married, 1 daughter and 1 son

### **Publications :**

#### **International Papers (SCI,SCI-expanded)**

- 1) Sarıcam C.,Kalaoglu F.,Aksoy a.,”Internal benchmarking methodology and its implementation on apparel retail industry”,Tekstil ve Konfeksiyon,Vol 25,issue 4,353-358,Oct-Nov 2015
- 2) Atalay O.,Bahadır S.,Kalaoglu F.”an analysis on the moisture and thermal protective performance of firefighter clothing based on different layer combinations and effect of washing on heat protection and vapour transfer”,Advances in Materials Science and Engineering,article number 540394,2015
- 3) Eryuruk H.,Kalaoglu F.,”The effect of weave construction on tear strength of woven fabrics”,Autex Research Journal,Vol 15,İssue 3,p207-2014,SEPT 2015
- 4) Bahadır S.,Kalaoglu F.,Jevsnik S.,”The Use of Hot air Welding technologies for manufacturing E-textile transmission line”, Fibers and polymers,Vol 16 Issue 6,P1384-1394,June 2015
- 5) Kalaoglu O.,Akyuz E.,Ecemiş S.Kalaoglu F. et al “Retail Demand Forecasting in clothing Industry”,Tekstil ve Konfeksiyon,Vol 25,Issue 2,p174-180,Apr-June 2015
- 6) Bahadır S.,Kalaoglu F.,Jevsnik S.,et al”Use of Artificial Neural Networks for Modelling the Drape Behaviour of Woollen Fabrics treated with dry finishing processes”,Fibers&Textiles in Eastern Europe,Vol 33,issue 2,p90-99,March-April 2015
- 7) Jevsnik S.,Kalaoglu F.,Eryuruk H.,et al “Evaluation of a garment Fit Model Using AHP”, Fibres &Textiles in Eastern Europe, Vol 23, p 116-122,March-April,2015
- 8) Jevsnik S.,Kalaoglu F, et al.”Fabric hand of a Dry Finished Wool fabric”,Fibers and Poylmer, , December 2014,Vol 15,Issue 12,p2671-2678
- 9) Sarıçam,C.,Seçkin P.,Cassill,N.,Kalaoglu F.”Strategy development and Assessment via Scenarios for the Turkish apparel Industry”,Fibres &Textiles in Eastern Europe, Nov.2014,vol 22,Issue 6,p20-26
- 10) Aydın S.,Eryuruk H.,Kalaoglu F.,”Evaluation of the Performance Attributes of Retailers Using the scor Model and AHP”,Fibres &textiles in Eastern Europe, Sept. 2014, Volume 22, issue 5,p14-19
- 11) Sarıcam C.,Kalaoglu F.,”Investigation of Wicking and drying behavior of polyester woven fabrics”, Fibres &Textiles in Eastern Europe, May 2014,vol 22,Issue 3,p73-78
- 12) Eryuruk H.,Kalaoglu F. etal.”Analysing the Effect of decatizing on the frictional properties of Wool Fabrics”, Fibres &Textiles in Eastern Europe, May.2014,vol 22,Issue 3,p 79-83

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- 13) Unsal C.,Kalaoğlu F.,et al. “Polypyrrole /Poly(acrylonitrile-co-butyl acrylate)Composites”, Advances in Polymer Technology, March 2013,Vol 32,Supplement1,E784-E792
- 14) Sariçam C.,Kalaoğlu F. et al. “Application of Godet’s scenario methodology to the Turkish Apparel Industry”, Fibres &Textiles in Eastern Europe, March 2013,vol 21,Issue 2,p 7-12
- 15) Eryuruk H.,Kalaoğlu F.,Baskak M.” Comparison of Logistics and Clothing sectors for a Logistic center Site selection using AHP”, Fibres &Textiles in Eastern Europe, March 2013.,vol 21,Issue 2,p13-18
- 16) Yanılmaz M.,Kalaoglu f.,Karakas H.,”Investigation on the effect of process Variables on Polyurethane Nanofibre Diameter Using a Factorial design”, Fibres &Textiles in Eastern Europe, March 2013,vol 21,Issue 2,p19-21
- 17) Bahadır s.,Thomassey S.,Koncar V.,Kalaoglu F.”An algoritm based on Neuro-fuzzy Controller Implemented in a Smart Clothing system for Obstacle Avoidance”,International Journal opf Computational Intelligence Systems,March 2013,Vol6,Issue 3,p503-507
- 18) Bahadır s.,Cebi s.,Kahraman C.,Kalaoğlu F.,”Developğing a smart Clothing system for Blinds Based on Information axiom”, International Journal of Computational Intelligence3 Systems,March 2013, Vol 6,issue 2,p279-292
- 19) Yanılmaz M.,Kalaoğlu F.,Karakas H.,Saraç S,”Preparation and characterization of electrospun polyurethane-polypyrrole nanofibers and films”,Journal of Applied Polymer Science,Sept.2012,Vol 125,Issue 5,p4100-4106
- 20) Bahadır S.,Koncar V.,Kalaoğlu F.,” Crosstalk Effect in a Fbaric circuit developed for multi-connection of sonar sensors”,Tekstil ve Konfeksiyon, Jul.2012,Vol22,Issue 3,p197-202
- 21) Yanılmaz M.,Kalaoglu F,Karakas H.,”Study on optimizing the Morphology of electrospun Polyurethane nanofibers,tekstil ve Konfeksiyon,July 2012, Vol 22,issue 3,p212-215
- 22) Bahadır S.,Koncar V.,Kalaoğlu F.,”Wearable Obstacle detection System Fullyintegrated to textile structures for visually impaired people”,Sensors and Actuators, June 2012,Volume 179,p297-311
- 23) Sariçam C.,Kalaoglu F.,Polat s.,”Determination of the Key variables for future Anticipation in Turkish textyile Industry”, Tekstil ve Konfeksiyon,April 2012,Vol 22,issue, 2,p 137-143
- 24) Bahadır s.,Kalaoğlu F.,Koncar V.,”Analysis of Vibrotactile perception via e-textile structure using Fuzzy logic”, Fibres &Textiles in Eastern Europe, 2012,Volume 20,issue 6,p91-97,vol 22,Issue 6,p20-26
- 25) Yanılmaz M.,Kalaoğlu F.,”Investigation of wicking,wetting and drying properties of acrylic knitted fabrics”Textile Research Journal,December 2012,Vol 82,820-831
- 26) Bahadır Senem K.,Koncar V.,Kalaoğly F. “Assessing the Signal Quality of an Ultrasonic Sensor on Different Conductive Yarns Used as Transmission Lines,Fibers and Textiles in east Europe,Vol 19 Issue no5 (88)/2011 ,75-81
- 27) Bahadır S.K.,Kalaoğlu F.,Thomassey S.,Koncar V.,”A study on the beam pattern of ultrasonic sensor integrated to Textile structure”,International Journal of Clothing science and Technology,Vol 19,İssue 4 2011,232-241
- 28) Eryuruk S.H.,Kalaoglu F.,Baskak M.,”Logistics centre design for the Turkish Clothing Industry ,Fibres and textiles in eastern Europe, vol 19,no 5(88),2011,sayfa 17-22

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- 29) Eryuruk S.H.,Kalaoglu F.,Baskak M., “Assembly Line Balancing by using statistical method in clothing production”,*tekstil ve Konfeksiyon*,vol 21,issue 1 ,2011,65-71
- 30) Bilgi M.,Kalaoglu F., The effects of special finishing processes on the performance Eryuruk S.H.,Kalaoglu F.,Baskak M.,”Evaluation Globalization Strategies and Internal analysis of the Turkish Clothing Industry”, *Tekstil ve Konfeksiyon*, Volume 21, Issue 2,2011,s100-106
- 31) Cetiner, S., Kalaoglu, F., Karakas, H., Sarac, A.S., “Preparation and Characterization of Conductive Poly(Acrylonitrile-co-Vinyl Acetate) Composite Films: Matrix Polymerization of Pyrrole Derivatives”, *Fibers and Polymers* No 12(2),151-158,2011
- 32) Cetiner, S., Kalaoglu, F., Karakas, H., Sarac, A.S., “Dielectric, FTIR Spectroscopic and Atomic force microscopic (AFM) Studies on Polypyrrole-Poly(Acrylonitrile-co-Vinyl Acetate) Composites”, *Polymer Composites* V32,issue 4,546-557,2011
- 33) Cetiner, S., Olariu, M., Ciobanu, R.C., Karakas, H., Kalaoglu, F., Sarac, A.S., “Polypyrrole-Polyacrylonitrile Composite Films: Dielectric, Spectrophotometric and Morphologic Characterization”, *Fibers and Polymers*, 11(6), 843-850 (2010).
- 34) Cetiner, S., Kalaoglu, F., Karakas, H., Sarac, A.S., “Electrospun Nanofibers of Polypyrrole-Poly(Acrylonitrile-co-Vinyl Acetate)”, *Textile Research Journal*, 80(17), 1784-1792 (2010).
- 35) Cetiner, S., Karakas, H., Ciobanu, R.C., Olariu, M., Kaya, N.U., Unsal, C., Kalaoglu, F., Sarac, A.S., “Polymerization of Pyrrole Derivatives on Polyacrylonitrile Matrix, FTIR-ATR and Dielectric Spectroscopic Characterization of Composite Thin Films”, *Synthetic Metals*, 160, 1189-1196 (2010).
- 36) Eryürük S.H.,Kalaoglu “The effects of Different amonuts of Lubricant Application on the sewing thread Performance”, *Textile Research Journal* ,2010,Vol80(12), 1232-1242
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- 38) Eryuruk, S.H., Kalaoglu, F., Baskak,” Logistics as a competitive strategy:the Analysisi of a clothing industry in terms of logistics “,*Fibers and Textiles in Eastern Europe*, Vol 19, No. 1 (84), pp.12-17,2011/1.
- 39) Yanilmaz, M., Kalaoglu, F., Karakas, H., Sarac, A.S., “Effects of polypyrrole on the characteristics of polyurethane based composites”, *Tekstil ve Konfeksiyon*, (2011/1),Volume 21” ,issue 1,pp3-9
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- 45) Yanilmaz, M., Kalaoglu, F., Karakas, H., Sarac, A.S., “Effects of polypyrrole on the characteristics of polyurethane based composites”, *Tekstil ve Konfeksiyon*, (2011/1),Volume 21” ,issue 1,sayfa3-9
- 46) Kurşun S.,Dinçmen M., Kalaoğlu F. “Production line modeling in clothing industry by simulation”, *Tekstil*, Vol 58, no 5, May 2009, sayfa186-195
- 47) Kursun S., Kalaoğlu F., “Simulation of Production line balancing in Apparel Manufacturing” *Fibers and textiles in Eastern Europe*,2009/4,Vol 17,p 68-71
- 48) Eryürük H., Kalaoğlu F., “Assembly Line balancing in a Clothing Company”, *Fibers and Textiles in Eastern Europe* ,2008/1,Vol16,p93-98
- 49) Sarıçam C.,Kalaoğlu. F, “An application of development and analysis of modular manufacturing system in clothing industry”, *Fibers and Textiles in Eastern Europe*, 2007/3,p 67-70
- 50) Ozdemir O.,Şardağ S., Kalaoglu F., “Effects of twisting methods on the plied yarn properties” ,*Indian Journal of Fiber and Textile Research*, Vol31,September 2006,pp394-400
- 51) Kalaoğlu F.,Meriç B.,Investigation of the Performance of linings, *International Journal of Clothing Science and Technology*,Vol17,No 3/4,2005,pp171-178
- 52) Uçar N.,Kalaoğlu F.,Bahtiyar D.,Bilaç O.E., Investigating the Drape Behaviour of Seamed Knit fabrics with Image Analysis, *Textile Research Journal*, 74(2),166-174 (2004)
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- 54) Kalaoğlu F.,Meriç B.,Investigation of the Performance of linings, *International Journal of Clothing Science and Technology*,Vol17,No 3/4,2005,pp171-178
- 55) Kalaoglu, F., Önder,E., and Özipek, B. “ The Influence of Varying Structural Parameters on Abrasion Characteristics of 50.50 Wool.Polyester Blended Fabrics”, *Textile Research Journal*, 73(11),980-984 (2003)
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- 57) Önder, E., and Kalaoglu, F. “ An Outlook of the Home Textile Industry in Turkey”, *International Textile Bulletin*, 2/2003,48-50
- 58) Kalaoglu F.,Usbaş A. “Comparison of the Drape of Tencel Fabrics by Image Analysis”, *International Textile Bulletin*, Eylül 2001, s.69-72
- 59) Kalaoglu F., Demir E. “The Effect of Chenille Yarn Properties on the Performance of Chenille Upholstery Fabrics”, *International Textile Bulletin*, s.53-57.

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- 60) Kalaođlu F., Bütün H. “The Strength of Ultrasonically Welded Laminates”, International Textile Bulletin, Nonwoven Industrial Textiles, 4th quarter 2001, s.25-28.
- 61) Kalaođlu F., Tařkın G. “ The Performance of Wool Stretch Fabrics”, International Textile Bulletin, Yarn and Fabric Forming, 2001/1, s.52-60.
- 62) Kalaođlu F. “Ultrasonic Seaming of Technical Textiles”, Technical Textiles, 44, February 2001, s.32-35.