

REFERENCES

- Abeysekera, J.D.A. &Shahnavaze, H. (1998). Body size data of Sri Lankan workers & Comparison with other populations in the world: Its impact on the use of imported goods. *Journal of National Science Council, Sri Lanka*, 16(1), 67-86.
- Alexander, M., Connell, L.J., & Presley, A. (2005). Clothing fit preferences of young female adult consumers. *International Journal of Clothing Science and Technology*, Vol. 17(1), pp.52 - 64.
- Amnon,S. (2009). "Introduction to Machine Learning: Class Notes 67577" arXiv:0904.3664v1 [cs.LG].[Accessed on 06.05.2014]
- Anderson, L. J. ,Brannon, E.L., Ulrich, P.V., Marshall,T., Staples, N. ,Grasso,M. et al. (1997). Discovering the process of mass customization; A paradigm shift for competitive manufacturing .*National Textile Centre Research Briefs*,I95-A19
- Anderson, L. J. ,Brannon, E.L., Ulrich, P.V., Presley,A.B., Woronka,D., Grasso,M. et al.(1999). Understanding Fitting Preferences of Female Consumers: Development an Expert System to Enhance Accurate Sizing Selection. *National Textile Centre Annual Report* , I98-A8/1- 9.
- Ariadurai,A.,Nilusha,T., Dissanayake,M. (2009). An Anthropometric Study on Sri Lankan School Children for developing clothing sizes. *Journal of Social Sciences* 19(1) ,pp51-59.
- Ashdown, S.P.(1998) "An investigation of the structure of sizing systems: A comparison of three multidimensional optimized sizing systems generated from anthropometric data with the ASTM standard D5585-94", *International Journal of Clothing Science and Technology*, Vol. 10 (5), pp.324 – 341
- Ashdown, S.P., Locker, S.,Ruker, M., (2007). Improved Apparel sizing: Fit and Anthropometric 3D scan data. *National Textile Centre Research Briefs*: S04-CR01

Bagherzadeh, R., Latifi, M., & Faramarzi, A.R. (2010). Employing a Three-Stage Data Mining Procedure to Develop Sizing System. *World Applied Sciences Journal* 8 (8), pp.923-929.

Barnett, V., & Lewis, T. (1994). Outliers in Statistical Data(3rd ed.) Chichester: John Wiley & Sons.

Bagirov, A.M., & Mardaneh, K. (2006). Modified global k-means algorithm for clustering in gene expression datasets. *Conferences in Research and practice in Information Technology*, Vol. 73. Hobart: Australian Computer Society, Inc.

Bartlett, J., Kotrlik, J., & Higgins, C. (2001). Organizational Research: Determining Appropriate Sample size in Survey Research. *Information Technology, Learning and Performance Journal*, Vol 19(1), pp.43-50.

Beazley, A. (1997). Size and Fit: Procedures in undertaking a survey of body measurements. *Journal of Fashion Marketing and Management*, Vol.2 (1), pp.55-85.

Beazley, A. (1998). Size and fit: Formulation of body measurement tables and sizing systems; part2. *Journal of Fashion Marketing and Management* Vol. 2 (3), pp.260-284.

Beazley, A. (1999). Size and Fit: The development of size charts for clothing; part 3. *Journal of Fashion Marketing and Management*; Vol. 3, (1), pp.66 -84.

Belle, G. (2002). Statistical Rules of Thumb. New York: John Wiley & Sons Inc.

Bezdek, J. C., & Pal, N.R. (1998). Some new indexes of cluster validity. *IEEE Transactions on Systems, Man, and Cybernetics*, Part B 28(3), pp.301-315.

Bickle, M.C., Kotsiopoulos, A., Dallas, M.J., & Eckman, M. (1995). Fit of Women's Jeans: An Exploratory Study Using Disconfirmation Paradigm. *Journal of Consumer Satisfaction, Dissatisfaction and Complaining Behavior* Vol.8, pp.208-213.

Boguslawska, M. (2010). Analysis of the contemporary problem of garment sizes. TEXSCI. Czech Republic.

- Bye, E., LaBat, K.L., & DeLong, M.R. (2006). Analysis of body Measurement systems for Apparel, *Clothing & Textile Research Journal* Vol.24, pp.66-79.
- Carrier, S. F. (2009). What is your target market 's size and shape. *Advances in Production Engineering & Management*, Vol.4 , pp.5- 18.
- Chakrabarti, D. (1997). Indian Anthropometric Dimensions for Ergonomic Design Practice. Ahmedabad: National Institute of Design.
- Chitta, R., Jin, R., Havens, T. C., and Jain, A. K.(2011) ,Approximate Kernel k-means: solution to Large Scale Kernel Clustering. KDD, San Diego, CA,
- Chung, M., Lin, H., & Wang, M. (2007). The development of sizing systems for Taiwanese elementary and high school students. *International Journal of Industrial Ergonomics* Vol.37(8), pp.707- 716.
- Chun-Yoon, J., & Jasper, C.R. (1996). Key Dimensions of Women's Ready-to-Wear Apparel: Developing a Consumer Size- Labeling System. *Clothing and Textile Research Journal*, Vol.14(1), pp.89-95.
- Cooklin, G. (1995). Master Patterns and Grading for women's outsizes. Oxford: Blackwell Science.
- Cole, T. (2003). The Secular Trend in Human Physical Growth: A Biological View. *Economics and Human Biology*, Vol.1(2), pp. 161-168 .
- Cristianini, N., Taylor, J.S., & Saunders, C. (2007). Kernel Methods: A Paradigm for Pattern Analysis. In Valls,G., Alvarez, J.,& Ramon, M., Kernel Methods in Bioengineering, Signal and Image Processing (pp.1-41). Hershey: Idea Group Publishing.
- Croney, J. (1980).Anthropometry for Designers. London: Batsford Academic & Educational Limited.
- Deas Marteau, K. (2000).CAD: Let the fit revolution begin. *Bobbin* 42(2), pp.42-56

DeLong, M.R., Ashdown, S.P., Butterfield, L., & Turnbladh, K. (1993). Data specification needed for apparel production using computers. *Clothing & Textiles Research Journal* Vol. 11(3), pp.1-7.

Dixson, B. J., Grimshaw, G. M., Linklater, W. L., & Dixson, A. F. (2010). Watching the hourglass: Eye tracking reveals men's appreciation of the female form. *Human Nature*, Vol.21(4), pp.355-370.

Donelson, S.M., & Gordon, C.C. (1996). 1995 Mached Anthropometric database of U.S. Marine Corps Personnel: Summary Statistics. Massachusetts: GEO Centres, Inc.

Doustaneh, A.H., Gorji, M., & Varsei, M. (2010).Using Self Organization Method to Establish Nonlinear Sizing System. *World Applied Sciences Journal*, Vol.9 (12), pp.1359-1364.

Dunn, J.C. (1973). A Fuzzy Relative of the ISODATA Process and Its Use in Detecting Compact Well-Separated Clusters. *Journal of Cybernetics* Vol. 3(3), pp.32-57.

Ellis, H. (1997). Clinical Anatomy: A revision and applied anatomy for clinical students . UK: Blackwell Science Ltd.

Evangelista, P., Embrechts, M., & Szymanski, B. (2007). Some Properties of the Gaussian Kernel for One class Learning. *International Conference on Artificial Neural Networks* (pp.269-278). Berlin: Springer.

Fa, R., Nandi, A.K., & Jamous, B.A. (2012).Development and Evaluation of Kernel-Based Clustering Validity. *20th European Signal Processing Conference* (pp.634-638). Bucharest: EURASIP.

Fan, J., Yu, W., & Hunter, L. (2004). Clothing Appearance and Fit: Science and Technology. Cambridge: Woodhead Publishing Ltd.

Faust, M., Carrier, S., & Baptist, P. (2006). Variations in Canadian women's ready-to-wear standard sizes. *Journal of Fashion Marketing and Management*, Vol.10(1), pp.71 - 83.

Frienlander, J.S., Costa, P.T., Bosse, R., Ellis, E., Rhoads, J.G. and Stoudt, H.W.(1977), Longitudinal physique changes among healthy white veterans at Boston. *Human Biology*, Vol.49, pp.541-558

Gunnell, D. J., Smith, G.D., Frankel, S.J, Kemp, M., & Peters, T. (1998). Socio-economic and dietary influences on leg length and trunk length in childhood: a reanalysis of the Carnegie (Boyd Orr) survey of diet and health in prewar Britain (1937–39). *Pediatric and Perinatal Epidemiology*, Vol. 12(S1), pp.96-113.

Gupta, D., & Gangadhar, B.R. (2004).A Statistical Model for Developing Body Size Charts for Garments. *International Journal of Clothing Science and Technology*, Vol.16 (5), pp.458-469.

Gupta, S. (1993).Research methodology and statistical Techniques. New Delhi: Deep & Deep Publications.

Haggar, A. (1990). Pattern Cutting for Lingerie, Beachwear & Leisurewear. Oxford: Blackwell Publishing.

Halkidi, M., Batistakis, Y., & Vazirgiannis, M. (2001).On Clustering Validation Techniques. *Journal of Intelligent Information Systems*, Vol.17(2/3), pp.107–145.

Han, J., Kamber, M., & Pei, J. (2012).Data mining Concepts and Techniques. Waltham: Morgan Kaufmann publishers.

Hashim, Y.A. (2010). Determining sufficiency of sample size in management survey research activities. *International Journal of Organizational Management& Entrepreneurship Development*, Vol.6, pp.119-130.

Hofmann, M., Kernels and the Kernel Trick "Support Vector Machines"
http://www.cogsys.wiai.uni-bamberg.de/teaching/ss06/hs_svm/slides/SVM_and_Kernels.pdf

- Hsu, C. , (2007). Employing Data Mining to Identify the Significant Rules for Classifying Body Types. *WSEAS International Conference on Computer Engineering and Applications*, (pp. 29-34). Gold Coast.
- Hsu, C. (2009a). Data mining to improve industrial standards and enhance production and marketing: An empirical study in apparel industry. *Expert systems with Applications*, Vol.36(3) , pp4185-4191.
- Hsu, C. (2009b). Developing Accurate Industrial Standards to Facilitate Production in Apparel Manufacturing Based on Anthropometric Data. *Human Factors and Ergonomics in Manufacturing*, Vol.19(3), pp.199–211.
- Hsu, C., & Wang, M. (2004). Using Decision tree based data mining to establish a sizing system for the manufacture of garments. *International journal of Advanced Manufacturing Technology*, Vol.(26), pp.669-674.
- Iseri, A. (2008). Determining the Anthropometric characteristics of Turkish population. Istanbul: (Faith University).
- Izenman, A.J. (2008). Modern Multivariate Statistical Techniques. NewYork: Springer Science+ Business Media.
- Jongsuk, C.Y. , Jasper, C.R. (1993). Garment-sizing Systems: An International Comparison. *International Journal of Clothing Science and Technology*, Vol.5(5), pp.28-37.
- Jongsuk, C. Y. ,Jasper, C.R. (1996). Key dimensions of Women's Ready-to-wear Apparel: Developing a Consumer Size Labeling System. *Clothing and Textile research Journal* Vol. 14 (1) , pp 89-95.
- Khardon, R.(2008) Computational Learning Theory
<http://www.cs.tufts.edu/~roni/Teaching/CLT2008S/> [Accessed on 22.01.2014]

Kim, D.W., Lee, K.Y., Lee, D., & Lee, K.H. (2005). Evaluation of the performance of clustering algorithms in kernel-induced feature space. *Pattern Recognition* Vol.38, pp.607 – 611.

Krejcie, R.V., and Morgan, D.W. (1970). Determining Sample Size for Research Activities. *Educational and Psychological Measurement* Vol.30(3), pp.607-610

LaBat, K.L., and DeLong, M.R. (1990). Body cathexis and satisfaction with fit of apparel. *Clothing Textile Research Journal* Vol.8(2), pp.43-48.

Laitala, K., Klepp, I.G., & Hauge, B. (2011). Materialized Ideals: Sizes and Beauty. *Culture Unbound* Vol.3, pp.19-41.

Lassek, W.D., & Gaulin, S.J.C. (2008). Waist-to-hip ratio and cognitive ability: Is gluteofemoral fat a privileged store of neuro developmental resources? *Evolution and Human Behavior* Vol.29, pp.26-34.

Lee, J.Y., Istook, C.L., Nam, Y.J., & Park, S.M. (2007). Comparison of body shape between USA and Korean women. *International Journal of Clothing Science and Technology* Vol. 19(5), pp.374-391.

Lidwell, W., Holden, K., & Butler, J. (2003). *Universal Principles of Design*. Massachusetts: Rockport Publishers.

Likas, A., Vlassisb, N., & Verbeekb, J. (2003). The global k-means clustering algorithm. *The Journal of Pattern Recognition Society*, Vol.36, pp.451-461.

Lin, H., Hsu, C., Wang, M.& Lin, Y. (2007). An application of data mining technique in Engineering to facilitate production management of garments. *11th WSEAS international Conference on Computers*. Greece: Agios Nikolaos.

Lin, H., Hsu,C., Wang, M. & Lin,Y. (2008). An Application of Data Mining Technique in Developing Sizing System for Army Soldiers in Taiwan. *WSEAS Transactions on Computers*, Vol.7(4), pp.245-252.

Lin, H.T., & Lin, C.J. (2003). A Study on Sigmoid Kernels for SVM and the Training of non-PSD Kernels by SMO-type Methods. *CiteSeer X*.

Liu, Z., Chen, D., & Bensmail, H. (2005). Gene Expression Data Classification With Kernel Principal Component Analysis. *Journal of Biomedicine and Biotechnology* Vol. 2005(2), pp.55-159.

Lodhi, H., Saunders, C., Taylor, J.S., Cristianini, N., & Watkins, C. (2002). Text Classification using String Kernels. *The Journal of Machine Learning Research* Vol.2, pp.419-444.

Loker, S., Ashdown, S.P., & Schoenfelder, K. (2005). Size- specific Analysis of Body Scan Data to Improve Apparel Fit. *Journal of Textile and Apparel, Technology and Management*, Vol. 4 (3), pp.1-7 .

Mampa, M.L., Azariadis, P.N., & Sapidis, N.S. (2010).A new methodology for the development of sizing systems for the mass customization of garments. *International Journal of Clothing Science and Technology*, Vol. 22 (1), pp.49 - 68.

Martini, F.H., & Bartholomew, E.F. (2000).*Essentials of Anatomy & Physiology*. New Jersey: Prentice-Hall Inc.

McCulloch, C.E., Paal, B., & Ashdown, S.P (1998). An Optimization approach to apparel sizing. *Journal of the Operational Research Society*, Vol.49, pp.492-499.

Merry, C.V. (2005). Mind - Primary Cause of Human Evolution . Victoria: Trafford Publishing.

Methasate, I., & Theeramunkong, T. (2007).Experiments on Kernel Tree Support Vector Machines for Text Categorization. In Z. Zhou, & Q. Yang, *Advances in Knowledge Discovery and Data Mining* Vol. 4426 (pp.720-727). Berlin: Springer-Verlag.

Molarius, A. (1999). Waist and hip circumferences, and waist-hip ratio in 19 populations of the WHO MONICA project. *International Journal of Obesity*(23) , pp.116-125.

Otieno, R., Harrow, C., & Greenwood, G.L. (2005). The unhappy shopper, a retail experience: exploring fashion, fit and affordability. *International Journal of Retail & Distribution Management*, Vol. 33(4), pp.298 - 309.

Pal, N.R., & Biswas, J. (1997). Cluster Validation using graph theoretic concepts. *Pattern Recognition*, Vol.30(6), pp.847-857

Pechoux, B., & Ghosh, T. (2002). Apparel sizing & Fit. Manchester: The Textile Institute.

Petrova, A., & Ashdown, S.P. (2008). Three - dimensional Body Scan Data Analysis:Body Size and Shape Dependence of Ease Values for Pants' Fit. *Clothing and Textiles Research Journal*, Vol.26(3), pp.227-252.

Pisut, G., & Connell, L. (2007). Fit preferences of female consumers in the USA. *Journal of Fashion Marketing and Management*, 11(3), pp.366-379.

Pheasant, S. (1996). Bodyspace : anthropometry, ergonomics and design of work. London: Taylor& Francis.

Phillips, J., & Venkatasubramanian, S. (2011). A Gentle Introduction to the kernel Distance. Computing Research Repository-CORR Vol. abs/1103.1 .

Pochet, N.L.M., Ojeda, F., De Smet, F., De Bie, T., Suykens, J., & De Moor, B. (2007).Kernel Clustering for Knowledge Discovery in Clinical Microarray Data. In G. Valls, J. Alvarez, & M.

Ramon, Kernel Methods In Bioengineering, Signal and Image Processing (pp.64-92). Hershey: Idea Group Publishing

Rai, P. (2011). Kernel Methods and Nonlinear Classification
<http://www.cs.utah.edu/~piyush/teaching/15-9-print.pdf>. [Accessed on 12.03.2014]

Ramos, J. (2012). Dunn's Index

<http://www.mathworks.com/matlabcentral/fileexchange/27859-dunns-index/content/dunns.m> [Accessed on 15.05.2014]

Rendón, E., Abundez, I., Arizmendi, A., & Quiroz, E. (2011). Internal versus External cluster validation indexes. *International Journal of Computers and Communications* Vol. 5(1), pp.27-34.

Roach, M. (1996). The Numbers Game. *Vogue*, 94.

Roebuck, J.A. (1995). *Anthropometric Methods: Designing to fit the Human Body*. Santa Monica: HFES Publications Department.

Rokach, L., & Maimon, O.(Eds.) (2010). *Data Mining and Knowledge Discovery Handbook*. Springer US.

Sarma, T.H., Viswanath, P., & Reddy, B.E. (2011). Fast Approximate Kernel k-means Clustering Method For Large Data sets. Recent Advances in Intelligent Computational Systems (RAICS), (pp. 545 - 550). IEEE.

Shahrabi, J. ,Esfandarani, M.S., (2010). Development of a new Sizing System Based on Data Mining Approaches. *7th International Conference- TEXSCI* . Liberec, Czech Republic

Sharma, S. (1996).*Applied Multivariate Techniques*. Newyork: John Wiley Sons, Inc.

Simmons, K., Istook, C.L., & Devarajan, P. (2004). Female Figure Identification Technique(FFIT) for Apparel; Development of Shape Sorting Software. *Journal of Textile and Apparel, Technology and Management*, Vol.4(1), pp.1-15.

Song, H.K., & Ashdown, S.P (2012). Development of Automated Custom- Made Pants Driven by Body Shape. *Clothing and Textile research Journal* Vol.30(4), pp.315-329.

Streeter, S.A., & McBurney, D.N. (2003). Waist-hip ratio and attractiveness, New evidences and a critique of "a critical test". *Evolution and Human Behavior* Vol.24, pp.88-98.

Strydom, M., & Klerk, H.M. (2010). Key to good fit: Body measurement problems specific to key dimensions. *Journal of Family Ecology and Consumer Sciences*, Vol.38, pp.74- 83.

Sugiyama, L.S. (2005). Physical Attractiveness in Adaptationist Perspective. Handbook of Evolutionary Psychology (pp.292-343). Hoboken: John Wiley.

Singh, D. (1993). Adaptive significance of female physical attractiveness: Role of waist-to-hip ratio. *Journal of Personality and Social Psychology*, 65(2), pp.293–307

Taylor, J.S., & Cristianini, N. (2004). Kernel Methods for Pattern Analysis. New York: Cambridge University Press.

Tzortzis, G.F, & Likas, A.C. (2009). The Global Kernel K-Means Algorithm for Clustering in Feature Space. *IEEE Transactions on Neural Networks*, Vol.20(7), pp.1181-1194.

Taylor, P. (1990). Computers in the Fashion Industry. Oxford: Heinemann Professional Publishing Ltd.

Tryfoss, P. (1986, October). An Integer Programming Approach to the Apparel Sizing Problem. *The Journal of the Operational Research Society*, Vol.37(10), pp.1001-1006.

Tseng, M., & Jiao, J. (2001). Mass Customization: Handbook of Industrial Engineering, Technology and Operation Management. New York: Wiley.

Veblen, S. (2012). The Complete Photo Guide to Perfect Fitting. Minneapolis: Creative Publishing International, Inc.

Wadsworth, M.E., Hardy, R.J., Paul, A., Marshall, S., & Cole, T. (2001). Leg and trunk length at 43 years in relation to childhood health, diet and family

circumstances; evidence from the 1946 national birth cohort. *International Journal of Epidemiology* Vol. 31(2), pp383-390.

Wang, B., Xiong, H., Jiang, X., & Ling, F. (2012). Semi-Supervised Object Recognition Using Structure Kernel. *19th IEEE International Conference on Image Processing (ICIP)*, (pp.2157 - 2160). IEEE.

Winks, J.M. (1997). Clothing Sizes: International Standardization. Manchester: The Textile Institute.

Wardle, J. W. (1996). Body fat distribution in South Asian women and children. *International Journal of obesity & Related Metabolic Disorders*, Vol.20(3), pp.267-271.

Xie, J., Jiang, S., Xie, W., & Gao, X. (2011). An Efficient Global K-means Clustering Algorithm. *Journal of Computers*, Vol.6(2), pp.271-279.

Yunzhang, Z. (2011). *CSCI1430 :Project 4 Face detection with a sliding window*. from cs.brown.edu:

<http://cs.brown.edu/courses/csci1430/2011/results/proj4/yunzhang/> [Accessed on 15.09.2014]

Yoon, J., & Jasper, C.R. (1996). Key Dimensions of Women's Ready-to-Wear Apparel: Developing a Consumer Size-Labeling System. *Clothing and Textiles Research Journal January* vol. 14(1), pp.89-95 .

Zien, A., Rätsch, G., Mika, S., Schölkopf, B., Lengauer, T., & Müller, K. (2000). Engineering support vector machine kernels that recognize translation initiation sites in DNA. *Bioinformatics*, vol.16, pp.799–807.

Zakaria, N. ,Taib, J.S., Tan, Y. Wah, Y. (2008).Creating new sizing system for children's wear using anthropometric data. *5th International Cyberspace Conference on Ergonomics* .

Zilber, S.N., & Nohara, J.J. (2009). Mass Customization and Strategic Benefits :A Case Study in Brazil. *The Electronic Journal on Information Systems in Developing Countries* Vol.36(5), pp.1- 26 .

Zipkin,P. (2001). The Limits of Mass Customization. *Magazine*
<http://sloanreview.mit.edu/article/the-limits-of-mass-customization/> (Accessed on 08.05.2014)

Zhang, R., & Rudnicky, A. (2002).A large scale clustering scheme for kernel k-means. *The 16th International Conference on Pattern Recognition* (pp. 289-292). IEEE.