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Instructor Dr.

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EDUCATION

2003-2009	Loughborough University (UK), Mechanical Engineering, Ph.D.
2000-2002	Middle East Technical University, Mechanical Engineering, M.S.
1995-1999	Middle East Technical University, Mechanical Engineering, B.S.

ACADEMIC POSITIONS

09/2019-present	Instructor Dr, Department of Mechanical Engineering, Atılım University, Turkey
12/2011-08/2019	Assistant Prof. Dr., Mechanical Engineering Program, Middle East Technical University Northern Cyprus Campus, Turkish Rep. of Northern Cyprus
09/2010-12/2011	Instructor Dr., Mechanical Engineering Program, Middle East Technical University Northern Cyprus Campus, Turkish Rep. of Northern Cyprus
09/2009-06/2010	Research Associate, Department of Computer Science/Research School of Informatics, Loughborough University, United Kingdom
10/2003-01/2009	University Teacher (temporary part-time), Wolfson School of Mechanical and Manufacturing Engineering & School of Sport, Exercise and Health Sciences, Loughborough University, United Kingdom
09/1999-08/2003	Teaching Assistant, Department of Mechanical Engineering, Middle East Technical University, Turkey

ADMINISTRATIVE DUTIES

09/2018-08/2019	Program Coordinator, Aerospace Eng. Program, Middle East Technical University Northern Cyprus Campus, Turkish Rep. of Northern Cyprus
07/2015-07/2017	Program Coordinator, Mechanical Eng. Program, Middle East Technical University Northern Cyprus Campus, Turkish Republic of Northern Cyprus

HONORS&AWARDS

1	Best Presentation Award, XVII. Annual Meeting of European Society of Movement Analysis for Adults and Children, Antalya, Turkey, 2008.
2	PhD Scholarship, Loughborough University, UK. £11,166 per annum.
3	Success Award, for being in the top 500 of the national university entrance examination (among 1.25M students), Gazi Anadolu High School, Ankara.

RESEARCH INTERESTS

1	Musculoskeletal modelling
2	Computer simulation
3	Human motion analysis

4	Injury analysis and injury prevention
5	Gait analysis
6	Mechanisms and dynamics of machinery

PROFESSIONAL SERVICE

1	Reviewer, Journal of Applied Mechanics
2	Reviewer, Journal of Low Frequency Noise, Vibration & Active Control

PUBLICATIONS

1	King, M.A., Kentel, B.B., and Mitchell, S.R. "The effects of ball impact locations and grip tightness on the arm, racquet and ball for one-handed tennis backhand groundstrokes". <i>Journal of Biomechanics</i> , 45(6): 1048-1052, 2012
2	Kentel, B.B., King, M.A., and Mitchell, S.R. "Evaluation of a subject-specific, torque-driven computer simulation model of one-handed tennis backhand groundstrokes". <i>Journal of Applied Biomechanics</i> , 27(4): 345-354, 2011
3	Glynn, J.A., Kentel, B.B., King, M.A., and Mitchell, S.R. "A comparison of wrist angular kinematics and forearm EMG data for an elite, intermediate and novice standard tennis player performing a one-handed backhand groundstroke". <i>International Journal of Sports Science and Engineering</i> , 1(3): 157-164, 2007
4	Bozkurt, M., Yavuzer, G., Tonuk E., and Kentel, B. "Dynamic function of the fibula. Gait analysis evaluation of three different parts of the shank after fibulectomy: proximal, middle and distal". <i>Archives of Orthopaedic and Trauma Surgery</i> , 125(10): 713-720, 2005
5	Solak, A.S., Kentel, B., and Ates, Y. "Does bilateral total knee arthroplasty affect gait in women? – Comparison of gait analyses before and after total knee arthroplasty compared with normal knees". <i>The Journal of Arthroplasty</i> , 20(6): 745-750, 2005
6	Ertan, H., Kentel, B.B., Tümer, S.T., and Korkusuz, F. "Reliability and validity testing of an archery chronometer". <i>Journal of Sports Science and Medicine</i> , 4: 95-104, 2005
7	Bozkurt, M., Kentel, B.B., Yavuzer, G., Ocguder, A., Heycan, C., and Tonuk, E. "Functional evaluation of intraarticular severely comminuted fractures of the calcaneus with gait analysis". <i>The Journal of Foot & Ankle Surgery</i> , 43(6): 374-379, 2004
8	Salci, Y., Kentel, B.B., Heycan, C., Akin, S., and Korkusuz, F. "Comparison of landing maneuvers between male and female college volleyball players". <i>Clinical Biomechanics</i> , 19(6): 622-628, 2004
9	Ertan, H., Kentel, B., Tümer, S.T., and Korkusuz, F. "Activation patterns in forearm muscles during archery shooting". <i>Human Movement Science</i> , 22(1): 37-45, 2003
10	Yousefi A., Tönük E., and Kentel BB. "In Vivo Verification of Different Hip Joint Center Estimation Methods in Gait Analysis for Healthy Subjects". <i>SDU Fen Bilimleri Enstitüsü Dergisi</i> , 18 (3) (SI:Biomechanics): 157-166, 2014
11	Güven U., Akman AC., and Kentel BB. "The Implementation of Torque Generators on a Human Rigid Body Model". <i>SDU Mühendislik Bilimleri ve Tasarım Dergisi</i> , 2 (3) (ÖS:BiyoMekanik): 185-188, 2014

PROJECTS

1	"Development of a Kinematic Forearm Model with a Moving Rotation Axis for Pro/Supination Motion", Middle East Technical University Northern Cyprus Campus, 19,635.00 TL (\approx €3.5k), 20 months, in progress. Co-Principal Investigator
2	"Computational and Experimental Investigations on Frontal Whiplash Injury", Middle East Technical University Northern Cyprus Campus, 36,388.48 TL (\approx €16k), 18 Months, completed on 08/2012. Investigator

CONFERENCE PRESENTATIONS

1	Kentel, B. B and Araz, Matthew. "Development of a kinematic forearm model with a moving rotation axis for pro/supination motion", <i>9th International Biomechanics Congress</i> , Eskişehir, Turkey, 2018
2	Kentel, B. B. "The effects of solution techniques on the results of the simulation of human motion", <i>9th International Conference on Computational Methods</i> , Rome, Italy, 2018
3	Kentel, B. B. and Turgaç, A. "The effect of tilted longitudinal axis of the forearm during pro-/supination movement", <i>9th International Symposium on Computer Science in Sport</i> , Istanbul, Turkey, 2013
4	Esat, V., Kentel, B. B., Gocmen, U., and Gokler, M. I. "A Combined Computational and Experimental Approach for Frontal Whiplash Injury Research", <i>ICRASH2012 – International Crashworthiness Conference</i> , Milano, Italy, 2012
5	Acar, B.S., Acar, M., and Kentel, B.B. "Investigating the relationships between full spinal curvatures and falls in the ageing population", <i>ASME 10th Biennial Conference on Engineering Systems Design and Analysis</i> , Istanbul, Turkey, 2010
6	Kentel, B. B., King, M. A., and Mitchell, S. R. "A torque-driven simulation of one-handed backhand groundstrokes in tennis", <i>XII. International Symposium on Computer Simulation in Biomechanics</i> , Cape Town, South Africa, 2009
7	Kentel, B. B., King, M. A., and Mitchell, S. R. "The effect of off-centre impacts on loading at the wrist and elbow in tennis backhand strokes", XVII. Annual Meeting of European Society of Movement Analysis for Adults and Children, Antalya, Turkey, 2008
8	Kentel, B.B., Mitchell, S.R., and King, M.A. "A muscle driven computer simulation model of the backhand shot in tennis", <i>Biomechanics Interest Group of the British Association of Sport and Exercise Sciences 22</i> , Loughborough, UK, 2006
9	Kentel B.B. "A comparison of actuators in a musculoskeletal model: Torque generators and individual muscles", <i>8th National Biomechanics Congress with International Participation</i> , Ankara, Turkey, 2016
10	Kentel BB. "Rijit İnsan Bedeni Modellemesinde Sürücü Eleman Olarak Tork Üreteçlerinin Kullanımı". Uluslararası Katılımlı 17. Makina Teorisi Sempozyumu, İzmir, Türkiye, 2015
11	Yousefi A., Tönük, E., and Kentel B.B. "In vivo verification of different hip joint center estimation methods in gait analysis for healthy subjects". <i>7th Internationally Participated National Biomechanics Congress</i> , Isparta, Turkey, 2014
12	Güven U., Akman, A.C., and Kentel B.B. "Implementation of torque generators on a human rigid body model". <i>7th Internationally Participated National Biomechanics Congress</i> , Isparta, Turkey

13	Korkusuz F, Kentel B.B, and Tümer S.T., "Yürüyüş Analizinde Orta Doğu Teknik Üniversitesi Deneyimi", <i>Spastik Çocuklar Günleri - III</i> , SHÇEK ve Türkiye Spastik Çocuklar Vakfı, 2001
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CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	204 (Cited Reference Search)
H-index (ISI Web of Science):	7

COURSES GIVEN

1	MECH 100 – Introduction to Mechanical Engineering (METU NCC)
2	MECH 205 – Statics (METU NCC)
3	MECH 208 – Dynamics (METU NCC)
4	MECH 301 – Theory of Machines (METU NCC)
5	MECH 413 – Introduction to Finite Element Analysis (METU NCC)
6	MECH 418 – Dynamics of Machinery (METU NCC)
7	MECH 466 – Performance of Road Vehicles (METU NCC)
8	ME211 – Statics and Strength of Materials
9	MECE303 – Theory of Machines

THESES SUPERVISED

1	MS Thesis, Matthew Araz, "Development of a Kinematic Forearm Model with a Moving Rotation Axis for Pro/Supination Motion", Middle East Technical University Northern Cyprus Campus, in progress
2	MS Thesis, Abdollah Yousefi, "In Vivo Verification of Different Hip Joint Center Estimation Methods in Gait Analysis for Healthy Objects", Middle East Technical University, 2014