NAME	Semih Bilgen
TCKN	
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EDUCATION			
	INSTITUTION	DEPARTMENT/PGM	GRADUATION YEAR
UNIVERSITY	ODTÜ	EEE	1973
M.Sc.	RENSSELAER POLYTECHNIC INSTITUTE, TROY, NY, ABD	CS	1976
Ph.D.	UNIVERSITY OF MANITOBA, KANADA	EEE	1982

AREAS OF SPECIALTY
Computer Hardware and Software, Software Engineering, Software Management, Information Systems

ACADEMIC/PROFESSIONAL EXPERIENCE			
INSTITUTION	DEPARTMENT	POSITION	DATES (From-To)
METU	Management	Instructor	1976-1984
METU	EEE	Assistant Professor	1984-1987
METU	EEE	Associate Professor	1987-1995
METU	EEE	Professor	1995-2014
METU	Informatics Institute, Information Systems	Head of Department	1997-2003
METU	Informatics Institute	Associate Director	2003-2004
Yeditepe University	Computer Engineering Dept	Head of Department	2014-2016
Istanbul Okan University	Faculty of Engineering	Dean	2016-continuing

DİL	LEVEL
Turkish	Mother Tongue
English	Excellent

French	Reading: Very good, Writing: Medium, Speaking: Medium

PATENTS

Bereketli, A., Bilgen, S., US2015036463 (A1) - SENSOR FOR REMOTELY POWERED UNDERWATER ACOUSTIC SENSOR NETWORKS (RPUASN)

Bereketli, A., Bilgen, S., TR 2013 09368B – Uzaktan enerji beslemeli sualtı akustik algılayıcı ağlar (ubsaaa) için algılayıcı

PROJECTS

PROJE İSMİ	DESTEK VEREN KURUM/YIL/BÜTÇE	PROJEDEKİ GÖREVİ (Yürütücü/Araştırmacı olarak)
OPINA	EU, IPA, 2020-2023	Senior Representative of the End Recipient (SRER)
RECIPROCITY	EU H2020 2021-2023	Istanbul Okan University Team Leader

PUBLICATIONS

International Refereed Journals
On communications networking and mathematical models:

1. Deligönül, Z.Ş., Bilgen, S., "Solution of the Volterra Equation of Renewal Theory with Galerkin Technique, Using Cubic Splines", J. Statist. Comput. Simul., 20, 1984, 37-45.
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7. Koçyiğit, A., Bilgen, S., "Statistically Predictive Optimal Routing and Wavelength Assignment
8. in All-Optical Networks", Optical Networks Magazine, 4:6, November/December 2003, 121-133.

9. Gökışık, D., Bilgen, S., "Neural Network Based Optical Network Restoration with Multiple Classes of Traffic", Lecture Notes in Computer Science, Volume 2869/2003, Computer and Information Sciences - ISCIS 2003, pp. 771-778.
10. Gökışık Karpat, D., Bilgen, S., "Distributed Restoration in Optical Networks using Feed-forward Neural Networks", Photonic Network Communications, 12:1, July 2006, pp. 53-64.
11. Bereketli, A., Bilgen, S., "Remotely Powered Underwater Acoustic Sensor Networks", IEEE Sensors, December 2012, pp 3467-3472.
12. KIVANÇ, Ö. C. ; AKGÜN, B. T. ; BİLGEN, S.; ÖZTÜRK, S. B. ; BAYSAN, S. ; and TUNCAY, R. N. (2022) "Residential energy management system based on integration of fuzzy logic and simulated annealing," Turkish Journal of Electrical Engineering and Computer Sciences: Vol. 30: No. 4, Article 24. https://doi.org/10.55730/1300-0632.3864

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2. Atalag K, Bilgen S, Gur G, Boyacioglu S, "Evaluation of the Turkish translation of the Minimal Standard Terminology for Digestive Endoscopy by development of an endoscopic information system", Turkish Journal of Gastroenterology (SCIE), 18:3, 2007, pp. 157-164.
3. Özkan, S., Çakır, M, Bilgen, S. "A Maturity Based Qualitative Information Systems Effectiveness Evaluation of a Public Organization in Turkey", Journal of Cases on Information Technology (JCIT), 10: 3, July-September 2008, pp.58-71, ISSN: 1548-7717; EISSN: 1548-7725.
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5. Tanrıöver, Ö.Ö., Bilgen, S., "A framework for reviewing domain specific conceptual models", Computer Standards & Interfaces, 33 (2011), pp. 448-464.
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9. Uçar, E., Bilgen, S., "A Case-based Model for Assessing the Effectiveness of Information Systems Outsourcing", Journal of Information Technology Case and Application research
1. (JITCAR), 15 (3), 2013.
10. Chouseinoglou, O., Bilgen, S., "Introducing critical thinking to software engineering education", Software Engineering Research, Management and Applications, (2014) pp. 183-195. [DOI: 10.1007/978-3-319-00948-3_12]
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4. Atalağ, K., Bilgen, S., "Multi-Level Modeling and the Role of Archetypes in the Design of Health Information Systems: A Modeling Example in Endoscopy", HIBIT'07 International Symposium on Health Informatics and Bioinformatics, Antalya, Turkey, May 2007.

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7. Kaşıkçı, B.C.C., Bilgen, S., "Scalable Modeling of Software Product Line Variability", SPLC'09, International Software Product Line Conference, San Fracisco, August 2009, pp. 134-141.

8. Güçlü, N., Bilgen, S., "Process Based Public Value and Effectiveness of Government Information Systems", RCIS2010, Proceedings of Research Challenges in Information Systems, Nice, France, 2010, pp.429-436.

9. Güçlü. N., Bilgen, S., "Modeling and Assessment of the Effectiveness of Government Information Systems", IAMOT 2010, Proceedings of 19th International Conference on Management of Technology, Cairo, Egypt, 2010,

10. Uçar, E., Bilgen, S., "Effectiveness of Information Systems Outsourcing: An Exploratory Case Study", IADIS-IS2012, IADIS International Conference on Information Systems, Berlin, 2012, pp. 383-387.

11. Yarlikas, S., Bilgen, S., "Economic and Technical Assessment of Cloud Computing", CLOSER2012, Proceedings of the 2nd International Conference on Cloud Computing and Services Science, Lisbon, 2012, 167-172.

12. Chouseinoglou, O., Bilgen, S., "A Model for Assessing Organizational Learning in Software Development Organizations", HCSE 2012, Toulouse, France, October 2012, LNCS 7623, 251-258.

13. Yılmaz Taştekin, S., Erten, Y. M., Bilgen, S., "Product Development Time Improvement with Requirements Reuse", The Seventh International Conference on Software Engineering Advances, ICSEA 2012, November 18-23, 2012 - Lisbon, Portuga, pp. 394-400.

14. Özen, G., Karagöz, N. A., Chouseinoglou, O., Bilgen, S., "Assessing Organizational Learning in IT Organizations: An experience report from industry", 23rd International Workshop on Software Measurement (IWSM) and the 8th International Conference on Software Process and Product Measurement (Mensura) (IWSM-MENSURA 2013), Ankara, 23-25 October 2013.

15. Chouseinoglou, O., Bilgen, S., "Introducing Critical Thinking to Software Engineering Education", Software Engineering Research, Management and Applications, Studies in Computational Intelligence Volume 496, 2014, pp 183-195.

16. Tüzün, E., Tekinerdogan, B., Bilgen, S., "Deriving Metrics to Support Software Product Line Feasibility Analysis", ICSR Workshop, DReMeR'13.

17. Erturan, Y.N., Bilgen, S., Tokdemir, G., Cagiltay, N.E., Ozcebe, E., "A Mobile Application Flow Representation for Mutual Understanding of IT and Healthcare Professionals", M. Kurosu (Ed.): Human-Computer Interaction, Part I, HCII 2013, LNCS 8004, pp. 310–319, 2013.

18. Asan, E., Albrecht, O., Bilgen, S., "Handling Complexity in System of Systems Projects – Lessons Learned from MBSE Efforts in Border Security Projects", Proc. Fourth Int. Conf. Complex Systems Design & Management, CSD&M 2013, pp. 281-299.(Best Paper Award)

19. Deniz, B., Bilgen, S., "An Empirical Study of Software Reuse and Quality in an Industrial Setting", B. Murgante et al. (Eds.): ICCSA 2014, Part V, LNCS 8583, pp. 508-523, 2014.

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22. Iren, D., Bilgen, S., "Cost models of quality assurance in crowdsourcing", IEEE Fifth Int'l Conf. On Communications and Electronics (ICCE), 2014, pp. 504-509.

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2. İzmirli, Ö., Bilgen, S., "Classification of Note-Rhythm Complexities in Melodies Using a Neural Network Model", 10th International Conference on Artificial Intelligence, Workshop W12, Vienna, 1992.

3. İzmirli, Ö., Bilgen, S., "Recognition of Musical Tonality with Finite State Automata", International Symposium on Computer and Information Sciences, ISCIS VIII, Istanbul, 1993.
4. İzmirli, Ö., Bilgen, S., "Single and Multi-part Tonal Context Determination", International
1. Conference on Music Perception and Recognition ICMPC III, Liege, 1994.
5. İzmirli, Ö., Bilgen, S., "Recognition of Musical Tonality from Sound Input", IEEE MELECON'94, Antalya, 1994.
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1. Izmirli, O. and Bilgen, S. "Multiple Fundamental Tracking for Polyphonic Note Recognition" pp. 305-314 in M Chemillier and F. Pachet (Ed.s), Recherches et Applications en Informatique Musical, Hermes Editors, 1998.
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23. Koçyiğit, A., Bilgen, S., "Tümüyle Optik Ağlarda İstatistiksel Öngörüye Dayalı Eniyi Yönlendirme ve Dalga Boyu Atama", BİLİŞİM'2001, Eylül 2001, İstanbul.
24. Eryılmaz, U., Bilgen, S., Molyer, O., "Doğrulama ve Geçerleme Yaklaşımlarının Görev Uzayı Kavramsal Modellerine Yönelik İncelenmesi", SAVTEK 2006, Haziran 2006, Ankara.
25. Chouseinoglou, O., Karagöz, N.A., İren, D., Özen, G., Bilgen, S., "AiOLoS: Yazılım Geliştiren Organizasyonlarda Örgütsel Öğrenmeyi Değerlendirme Modeli", 7. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS13), İzmir, 25-28 September 2013.
26. Ayaz, S., Bilgen, S., "JSON Sözdizimli Gerçek Zamanlı İletişim Protokolü", 13. Ulusal Yazılım Mühendisliği Sempozyumu (UYMS19), İzmir, 23-25 September, 2019.

OTHER ACADEMIC ACTIVITIES

		Completed	Continuing
Supervised graduate dissertation studies	M.Sc.	103	
	PhD	30	1
Editing Scientific/Technical Publications	2009-present: The Computer Journal, published by the British Computer Society. 2008-present: Editor for Turkish Journal of Electrical Engineering and Computer Sciences (ELEKTRIK). 2000-present: Consulting Editor for Anadolu University Journal of Science and Technology, Eskişehir. 2014: IEEE Communications Letters; Advances in Software Engineering. 2013: EURASIP Journal on Wireless Communications and Networking. 2004: Gazi Üniversitesi Fen Bilimleri Enstitüsü Dergisi. 2004: Yıldız Teknik Üniversitesi Dergisi. 2004: IEEE Journal on Special Areas in Communication (JSAC) – Special Issue on Optical Networking. 1991: IEEE Transactions on Communications.		

MEMBERSHIP IN ACADEMIC/SOCIAL ASSOCIATIONS
1990 - … : Member, METU Academic Staff Association, Founder and two term chair 1994 - … : Member, Language Association 2001-2008: Member, METU MODSİMMER (Modeling & Simulation Center) Board of Executives 1997-2004: Member, METU Informatics Institute Board of Executives 1996-1998: Member, METU TEKNOKENT Advisory Board