



**Beytullah YILDIZ, Ph.D.**

Atilim University  
Department of Software Engineering  
06830 Incek, Golbasi, Ankara/TURKEY  
beytullah.yildiz@atilim.edu.tr  
Tel: +90 312 586 88 78

**EDUCATION**

2001-2007	Indiana University, Computer Science, Ph.D.
1999-2001	Syracuse University, Computer Science, M.S.
1992-1997	Istanbul University, Electronics Engineering, B.S.

**ACADEMIC POSITIONS**

2019-current	Asst. Prof. Dr., Dept. of Software Engineering, Atilim University, Turkey
2010-2012	Adjunct Faculty, Dept. of Computer Engineering, TOBB ETU, Ankara, Turkey
2001-2007	Research Assistant, Indiana University, Computer Science, IN, USA

**RESEARCH INTERESTS**

1	Machine Learning
2	Deep Learning
3	Reinforcement Learning
4	Parallel and Distributed Computing
5	Cloud Computing
6	Big Data

**PUBLICATIONS**

<b>SCI, SCI-Exp, SSCI or AHCI Journals</b>	
1	Beytullah Yildiz, Optimizing bitmap index encoding for high performance queries. <i>Concurrency Computat Pract Exper.</i> 2020; e5943. <a href="https://doi.org/10.1002/cpe.5943">https://doi.org/10.1002/cpe.5943</a>
2	Beytullah Yildiz and Murat Tezgider, Improving word embedding quality with innovative automated approaches to hyperparameters. <i>Concurrency Computat Pract Exper.</i> 2021;e6091. <a href="https://doi.org/10.1002/cpe.6091">https://doi.org/10.1002/cpe.6091</a>
3	Beytullah Yildiz, Kenseng Wu, Suren Byna, Arie Shoshani, “Parallel membership queries on very large scientific data sets using bitmap indexes,” <i>Journal of Concurrency and Computation: Practice &amp; Experience</i> , 2019; e5157. DOI: 10.1002/cpe.5157
4	Beytullah Yildiz and Geoffrey Fox, “Toward a modular and efficient distribution for web service handlers,” <i>Journal of Concurrency and Computation: Practice &amp; Experience</i> , vol. 25 iss. 3, March 2013, pp. 410-426,

	DOI: 10.1002/cpe.2854.
<b>5</b>	Shrideep Pallickara, Geoffrey Fox, Ahmet Uyar, Hongbin Liu, Xi Rao, David Walker and Beytullah Yildiz, "Performance of a possible grid message infrastructure," Journal of Concurrency and Computation: Practice & Experience, vol. 17 iss. 2-4, February 2005, pp. 193 – 214, DOI: 10.1002/cpe.924.

<b>Other Journals</b>	
<b>1</b>	Beytullah Yildiz, "Maturing the distribution of supportive tasks in web service framework: security and reliability," International Journal On Advances in Security, vol. 6 no 1&2, 2013, <a href="http://www.ariajournals.org/security/">http://www.ariajournals.org/security/</a>

<b>International Conferences</b>	
<b>1</b>	Yildiz B., Tezgider M. (2020) Learning Quality Improved Word Embedding with Assessment of Hyperparameters. In: Schwardmann U. et al. (eds) Euro-Par 2019: Parallel Processing Workshops. Euro-Par 2019. Lecture Notes in Computer Science, vol 11997. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-48340-1_39">https://doi.org/10.1007/978-3-030-48340-1_39</a> .
<b>2</b>	Yildiz B. (2020) High Performance Queries Using Compressed Bitmap Indexes. In: Schwardmann U. et al. (eds) Euro-Par 2019: Parallel Processing Workshops. Euro-Par 2019. Lecture Notes in Computer Science, vol 11997. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-48340-1_38">https://doi.org/10.1007/978-3-030-48340-1_38</a> .
<b>3</b>	Tezgider, Murat, Beytullah Yıldız, and Galip Aydın. "Improving word representation by tuning Word2Vec parameters with deep learning model." In 2018 International Conference on Artificial Intelligence and Data Processing (IDAP), pp. 1-7. IEEE, 2018.
<b>4</b>	Beytullah Yildiz, "Reliability and message security for distributed web service handlers," Proceeding of the Seventh International Conference on Internet and Web Applications and Services, Stuttgart, Germany, May 2012, pp. 17-22.
<b>5</b>	Beytullah Yildiz and Geoffrey Fox, "Measuring overhead for distributed web service handler," Proceeding of the Third IEEE International Conference on Computer Science and Information Technology, Chengdu, China, vol. 2, 2010, pp. 564- 570, DOI: 10.1109/ICCSIT.2010.5564481.
<b>6</b>	Beytullah Yildiz, Geoffrey Fox, and Shrideep Pallickara, "An orchestration for distributed web service handlers," Proceedings of the Third IEEE International Conference on Internet and Web Applications and Services, IEEE Computer Society, Washington, DC, USA, June 2008, pp. 638-643, DOI=10.1109/ICIW.2008.55.
<b>7</b>	Beytullah Yildiz, Shrideep Pallickara, and Geoffrey Fox, "Experiences in deploying services within the axis container," Proceedings of the IEEE International Conference on Internet and Web Applications and Services, Guadeloupe, French Caribbean, February 2006, pp. 168-174 , DOI: 10.1109/AICT-ICIW.2006.95.
<b>8</b>	Shrideep Pallickara, Geoffrey Fox, Beytullah Yildiz, Sangmi Lee Pallickara, Sima Patel and Damodar Yemme, "On the costs for reliable messaging in web/grid service environments," Proceedings of the First International Conference on e-Science & Grid Computing, IEEE Computer Society, Washington, DC, 2005, pp. 344-351, DOI:01109/E-SCIENCE.2005.61.
<b>9</b>	Pete Burnap, Hasan Bulut, Shrideep Pallickara, Geoffrey Fox, David Walker,

	Ali Kaplan, Beytullah Yildiz, and Mehmet A. Nacar, "Worldwide messaging support for high performance real-time collaboration," Proceedings of the Fourth UK e-Science Programme All Hands Meeting, Nottingham, UK, September 2005, pp. 395- 401, DOI:10.1.1.71.9927.
10	Galip Aydin, Ali Kaplan, Ahmet E. Topcu, Beytullah Yildiz, Ozgur Balsoy, Marlon Pierce, and Geoffrey Fox, "An XML based system for dynamic message content creation, delivery, and control," Proceedings of IASTED International Conference on Information and Knowledge Sharing, St.Thomas, US Virgin Islands, November 2002.
11	Ozgun Balsoy, Mehmet S. Aktas, Galip Aydin, Mehmet N. Aysan, Cevat Ikibas, Ali Kaplan, Jungkee Kim, Marlon Pierce, Ahmet Topcu, Beytullah Yildiz, and Geoffrey Fox, "The online knowledge center: building a component based portal," Proceedings of the International Conference on Information and Knowledge Engineering, 2002

<b>Book Chapters</b>	
1	Beytullah Yildiz and Fatih Ozutku, "T.C. Cumhurbaşkanlığında e-devlet," Chapter in Book, E-Devlet:Kamu Yönetimi ve Teknoloji İlişkisinde Güncel Gelişmeler, Editors: Mehmet Zahid Sobacı and Mete Yildiz, Published by Nobel, 2012.
2	Beytullah Yildiz, "Web service and container architecture," Chapter in Book, Research on Computer Science, Engineering & EE, VDM Verlag, 2009.
3	Tulin Guler and Beytullah Yildiz, "Eğitsel yazılımların değerlendirilmesi ve seçimi", Chapter in Book, Öğretmen ve Öğretmen Adayları İçin Bilgisayara Giriş, Editor: Buket Akkoyunlu, 191-208, Kriter Yayınları, Ankara, 2009.
4	Shrideep Pallickara, Geoffrey Fox, Mehmet Aktas, Harshawardhan Gadgil, Beytullah Yildiz, Sangyoon Oh, Sima Patel, Marlon Pierce and Damodar Yemme, "A Retrospective on the Development of Web Service Specifications," Chapter in Book, Securing Web Services: Practical Usage of Standards and Specifications, Editor: Periorellis Panos, University of Newcastle Upon Tyne. Published by Idea Group Inc, December 2006.

## **COURSES GIVEN**

1	SE322 Software Architecture
2	CMPE334 Computer Networks
3	SE422 Introduction to Data Science
4	SE573 Applied Machine Learning in Data analytics
5	CMPE538 Advance Computer Networks