

1. Yrd. Doç. Dr. Murat Şensoy

Bilgisayar Bilimleri Bölümü,

Özyeğin Üniversitesi, İstanbul, Türkiye

ARAŞTIRMA ALANLARI

Aşağıdaki konularda uzmanlık ve ilgi alanlarına sahip Bilgisayar Bilimi Doçentiyim;

(1) Siber-Fiziksel Sistemlerin Güvenliği

(2) Semantik Politika Temsili ve Akıl Yürütme;

(3) Nesnelerin Bilişsel İnternet (IoT);

(4) Otonom Akıllı Sistemler ve

(5) Çok Ajanlı Sistemler.

EĞİTİM

- Boğaziçi Üniversitesi, Doktora, Bilgisayar Mühendisliği (2004 - 2008), İstanbul, Türkiye

Tez Başlığı: Bağlam Bilinçli Hizmet Seçimi için Esnek Ajan Aracılı E-Ticaret Çerçevesi

Tez Danışmanı: Dr. Pınar Yolum

- Boğaziçi Üniversitesi, Yüksek Lisans, Bilgisayar Mühendisliği (2001 - 2004), İstanbul, Türkiye

Tez Başlığı: Gerçek Zamanlı İletişim için Gecikmeli-Sınırlı Çevrimiçi Çok Noktaya Yayın Yönlendirme Sezgiselliği

Tez Danışmanı: Dr. Murat Zeren

- Boğaziçi Üniversitesi, BSc., Kimya Mühendisliği (1996 - 2001), İstanbul, Türkiye

Çalışma Deneyimi

Özyeğin Üniversitesi, İstanbul, Türkiye, Eylül 2012 - halen

Yardımcı Doçent

Cardiff Üniversitesi Suç & Güvenlik Araştırma Enstitüsü, Cardiff, İngiltere, Eylül 2016 – halen

Dış Araştırmacı

Aberdeen Üniversitesi, Aberdeen, İngiltere, Eylül 2012- 2015

Onursa Öğretim Görevlisi

Carnegie Mellon Üniversitesi, Pittsburgh, ABD, Eylül 2010 – Ocak 2011

Araştırma Görevlisi

Aberdeen Üniversitesi, Aberdeen, UK, Ağustos 2008 – Eylül 2012

Doktora Sonrası Araştırma Görevlisi

Bogazici Üniversitesi, İstanbul, Türkiye, Ağustos 2006 – Temmuz 2008

Araştırma Görevlisi

Hibeler

- 2018-2028 – 4.0 Endüstrinin Oluşumu Merkezi'nin Kurulması, Görevi: IoT Modül Lideri, Avrupa Birliği Ekonomi ve Mali İşler tarafından kuruldu
- 2017-2019 - Akıllı Ortamlar Yoluyla Artan Güvenlik, Görevi: Baş Araştırmacı (Southampton Üniversitesi ile birlikte), British Council ve TÜBİTAK tarafından finanse edildi
- 2013-2019 - Farklı kaynaklardan gelen belirsiz bilgilerin Güvene Dayalı Füzyonu, Görevi: Baş Araştırmacı, Finansman: ABD Ordusu Araştırma Laboratuvarı
- 2013-2016 - Belirsiz Bilgi için Temsil, Füzyon ve Güven Modellemesi, Rol: Müdür

Araştırmacı, Destekleyen: TÜBİTAK

Yayınları

Uluslararası Dergiler (SCI/SCI-E)

1. Saritha Arunkumar, Murat Sensoy, Berker Soyluoglu, Mudhakar Srivatsa, and Muttukrishnan Rajarajan, "Location Attestation and Access Control for Mobile Devices using GeoXACML", *Journal of Network and Computer Applications*, vol. 80, pp. 181-188., 2017.
2. Anthony Etuk, Timothy J. Norman, Murat Sensoy, and Mudhakar Srivatsa, "How to trust a few among many", *Journal of Autonomous Agents and Multiagent Systems*, vol. 31, issue 3, pp 531-560, 2017.
3. Murat Sensoy, B. Yilmaz, Timothy J. Norman, "STAGE: Stereotypical Trust Assessment through Graph Extraction", *Computational Intelligence*, 32:72-101, 2016.
4. Saritha Arunkumar, Mudhakar Srivatsa, and Murat Sensoy, Muttukrishnan Rajarajan, "Reasoning with Streamed Uncertain Information from Unreliable Source", *Expert Systems with Applications*, 42 (22):8381-8392, 2015.
5. Lance Kaplan, Murat Sensoy, Supriyo Chakraborty, Geeth de Mel, "Partial Observable Update for Subjective Logic and Its Application for Trust Estimation", *Information Fusion Journal*, 26 (1):66-83, 2015.
6. Hui Fanga, Jie Zhang, Murat Sensoy, Nadia Magnenat-Thalmann, "Reputation Mechanism for E-Commerce in Virtual Reality Environments", *Electronic Commerce Research and Applications*, 13:6:409-422, 2014.
7. Chatschik Bisdikian, Christopher Gibson, Supriyo Chakraborty, Mani B. Srivastava, Murat Sensoy and Timothy J Norman, "Inference Management, Trust and Obfuscation Principles for Quality of Information in Emerging Pervasive Environments", *Pervasive and Mobile Computing*, 11:168-187, 2014.
8. Murat Sensoy, "Agent-based Semantic Collaborative Search", *Journal of Internet Technology*, 14(2):231-245, 2013.
9. Geeth de Mel, Murat Sensoy, Wamberto W. Vasconcelos, Timothy J. Norman, "A Hybrid Reasoning Mechanism for Effective Sensor Selection for Tasks", *Engineering Applications of Artificial Intelligence*, 26(2):873-887, 2013.

10. A. Preece, T. Norman, G. de Mel, D. Pizzocaro, Murat Sensoy and T. Pham, "Agilely Assigning Sensing Assets to Mission Tasks in a Coalition Context", *IEEE Intelligent Systems*, 28(1):57-63, 2013.
11. David Emele, Tim Norman, Murat Şensoy and Simon Parsons, "Argumentation Strategies for Task Delegation in Norm-Governed Environments" *Journal of Autonomous Agents and Multiagent Systems*, 25(3):499-525, 2012.
12. Murat Sensoy, Timothy J. Norman, Wamberto W. Vasconcelos, and Katia Sycara, "OWL-POLAR: A Framework for Semantic Policy Representation and Reasoning", *Journal of Web Semantics*, 12(2012), 148-160, 2012.
13. Murat Şensoy and Pinar Yolum, "Automating User Reviews Using Ontologies: An Agent-Based Approach", *World Wide Web Journal*, 15(2012) 285–323, 2012.
14. Murat Sensoy, Wamberto W. Vasconcelos, Timothy J. Norman, and Katia Sycara, "Reasoning Support for Flexible Task Resourcing", *Expert Systems with Applications*, 39(2012), 1998-2010, 2011.
15. Murat Sensoy, Thao Le, Wamberto W. Vasconcelos, and Timothy J. Norman and Alun D. Preece, "Resource Determination and Allocation in Sensor Networks: A Hybrid Approach", *Computer Journal*, vol. 53, no. 3, pp. 356-372, 2010.
16. Murat Sensoy, B. Yilmaz, and E. Yilmaz, "An Intelligent Packet Loss Control Heuristic for Connectionless Real-Time Voice Communication", *Mathematical Problems in Engineering*, vol. 2010, pp. 1-9, 2010.
17. Murat Şensoy, Jie Zhang, Pinar Yolum and Robin Cohen, "POYRAZ: Context-Aware Service Selection under Deception", *Computational Intelligence*, vol. 25, no. 4, pp. 335-366, 2009.
18. Murat Şensoy and Pinar Yolum, "Evolving Service Semantics Cooperatively: A Consumer-Driven Approach", *Journal of Autonomous Agents and Multiagent Systems*, vol. 18, no. 3, pp. 526-555, 2009.
19. Murat Şensoy and Pinar Yolum, "Ontology-Based Service Representation and Selection", *IEEE Transactions on Knowledge and Data Engineering*, vol. 19, no. 8, pp. 1102-1115, Aug., 2007.
20. Murat Şensoy, F. Canan Pembe, Hande Zırtıloğlu, Pinar Yolum and Ayşe Bener, "Experience-Based Service Provider Selection in Agent Mediated E-Commerce", *Engineering Applications of Artificial Intelligence*, Volume 20, Issue 3, pp. 325-335, 2007.

Uluslararası Konferanslar

21. E. Goynugur, M. Sensoy and G. de Mel, "Combining Semantic Web and IoT to Reason with Health and Safety Policies," in *Policy-based Autonomic Data Governance (PADG)*, In Proceedings of the IEEE International Conference on Big Data (IEEE Big Data 2017), Boston, MA, USA, pp. 2990-2997, 2017.
22. Goynugur, E., Bernardini, S., de Mel, G., Talamadupula, K., and Sensoy, M., "Policy Conflict Resolution in IoT via Planning", In the *Canadian Conference on Artificial Intelligence*, *Advances in Artificial Intelligence*, LNAI 10233, pp. 169-175, 2017.
23. Murat Sensoy, Lance Kaplan, Geeth de Mel, Taha D. Gunes, "SOBE: Source Behavior Estimation for Subjective Opinions in Multiagent Systems", *Proceedings of 16th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2016)*, 2016.
24. Anthony Etuk, Timothy J. Norman, Nir Oren, Murat Sensoy, "Strategies for Truth Discovery under Resource Constraints", *Proceedings of 15th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2015)*, 2015.

25. Saritha Arunkumar, Mudhakar Srivatsa, Murat Sensoy and Berker Soyluoglu, Muttukrishnan Rajarajan, "GeoSpatial Access Control for Mobile Devices", IEEE TENSYP (Theme: Internet of Things), 2015. (acc. rate 19%)
26. Mukta Aphale, Timothy Norman and Murat Sensoy, "Goal Directed Policy Conflict Detection and Prioritisation: An Empirical Evaluation", Proceedings of 14th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2014), 2014.
27. Murat Sensoy, Achille Fokoue, Jeff Pan, Timothy J. Norman, Yuqing Tang, Nir Oren, Katia Sycara, "Reasoning about Uncertain Information and Conflict Resolution through Trust Revision", Proceedings of 12th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2013), 2013. (acc. rate 22.9%)
28. Achille Fokoue, Felipe Meneguzzi, Murat Sensoy, Jeff Pan, "Querying Linked Ontological Data through Distributed Summarization", The 27th Conference on Artificial Intelligence (AAAI-12), pp. 31-37, 2012. (acc. rate 26%)
29. Hui Fang, Jie Zhang, Murat Sensoy and Nadia Magnenat Thalmann, "SARC: Subjectivity Alignment for Reputation Computation", Proceedings of 11th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2012), 2012.
30. Murat Sensoy, Jeff Pan, Achille Fokoue, Mudhakar Srivatsa, Felipe Meneguzzi, "Using Subjective Logic to Handle Uncertainty and Conflicts", Proceedings of IEEE Conference on Trust, Security and Privacy in Computing and Communications (TrustCom), 2012.
31. Hui Fang, Jie Zhang, Murat Sensoy, Nadia M. Thalmann, "A Generalized Stereotypical Trust Model", Proceedings of IEEE Conference on Trust, Security and Privacy in Computing and Communications (TrustCom), 2012.
32. Hui Fang, Jie Zhang, Murat Sensoy and Nadia Magnenat Thalmann, "A Reputation Mechanism for Virtual Reality--Five- Sense Oriented Feedback Provision and Subjectivity Alignment", Proceedings of 10th IEEE International Conference on Trust, Security and Privacy in Computing and Communications (IEEE TrustCom), 2011.
33. Murat Sensoy, Timothy J. Norman, Wamberto W. Vasconcelos and Katia Sycara, "OWL-POLAR: Semantic Policies for Agent Reasoning", Proceedings of the 9th International Semantic Web Conference (ISWC'10), pp. 679-695, 2010. (acc. rate 20%)
34. Murat Sensoy, Daniele Masato, Timothy J. Norman, Katia Sycara, Martin Kollingbaum, Jean Oh, and Chris Burnett, "Agent Support for Policy-driven Mission Planning Under Constraints", Proceedings of AAAI-2010 Fall Symposium on Proactive Assistant Agents, pp.44-50, 2010.
35. Murat Sensoy, "Distributed Semantic Search for the Web: A Multiagent Approach", Proceedings of 9th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2010), pp. 1561-1562, 2010. (short paper)
36. Murat Sensoy, Wamberto W. Vasconcelos and Timothy J. Norman, "Flexible Task Resourcing for Intelligent Agents", Proceedings of 9th International Joint Conference on Autonomous Agents and Multiagent Systems (AAMAS-2010), pp. 465-472, 2010. (acc. rate 23.8%)
37. Murat Sensoy and Pinar Yolum, "Active Concept Learning for Ontology Evolution", The 18th European Conference on Artificial Intelligence (ECAI 2008), pp. 773-774, 2008.

38. Murat Şensoy and Pinar Yolum, "A Cooperation-Based Approach for Evolution of Service Ontologies" The 7th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'08), pp.837–844, 2008. (acc. rate 22%)
39. Murat Şensoy, "A Framework for Ontology-Based Service Selection in Dynamic Environments", The 22nd Conference on Artificial Intelligence (AAAI-07), AAAI Press, California, USA, pp. 1947-1948, 2007 (short paper).
40. Murat Şensoy and Pinar Yolum, "Cooperative Evolution of Service Ontologies" The 6th International Conference on Autonomous Agents and Multiagent Systems (AAMAS'07), pp. 1301-1303, 2007.
41. Murat Şensoy and Pinar Yolum, "A Context-Aware Approach for Service Selection Using Ontologies" The 5th International Conference on Autonomous Agents and Multiagent Systems (AAMAS-06), pp.931-938, 2006. (acc. rate 22.9%)

Kitaplar

- Lance Kaplan, L., and Murat Sensoy, "Uncertainty Characterization and Fusion of Information from Unreliable Sources", In Bossé, É, & Rogova, G(Eds.), Quality of Information, Springer, (Forthcoming).
- Dignum, V., Noriega, P., Sensoy, M., & Sichman, J. S. (Eds.), Coordination, Organizations, Institutions, and Norms in Agent Systems XI, Vol. 9628, Springer, 2016.
- Murat Şensoy, Wamberto Vasconcelos, Geeth de Mel and Timothy J. Norman, "Semantic Matchmaking of Assets to Missions", in Agent-Based Technologies and Applications for Enterprise Interoperability, 2012.