



Bilkent University

Founded:
March 8, 1988

**Institute of World Systems,
Economies and Strategic Research**

**ACC 374
INFORMATION SYSTEMS SECURITY AND INFORMATION DISTORTION
(In French)**

Spring 2017

Instructor: Professor Orhan Güvenen
gorhan@bilkent.edu.tr
www.dsee.bilkent.edu.tr

Tel: 03122901660
03122902496
Fax:03122904383

Class Hours: Thursday, 10:40 – 13:30 LA 114 (SAL)
Office Hours: Thursday, 14:30 - 16:30 LC 117

Course Outline:

1. In the context of world dynamics information systems security criteria and information distortion
2. Information security management policies
3. Interactions between information systems security, information distortion and databases
4. Information distortion on online world and social networks
5. Information distortion in sciences and information flow world trends
6. Cyber crime and cyber attacks
7. Information security, privacy in online systems and ethics
8. Information distortion at global scale
9. Information systems security and cloud computing
10. Mass media and information distortion
11. Information systems, information distortion interactions and digital society
12. Impacts of Information Systems Security and Information Distortion on Big Data, Data Bases and Decision Systems
13. Cryptography and information systems security
14. Security of telecommunications infrastructures
15. Information security in wireless systems

ACC 374
LA SECURITE DANS LES SYSTEMES D'INFORMATION ET LA
DISTORSION DE L'INFORMATION

Les chapitres du cours:

- 1- Dans le contexte des dynamiques mondiales les critères de sécurité et la distorsion de l'information dans les systèmes d'information
- 2- Les stratégies de la gestion des systèmes d'information
- 3- Interactions entre la sécurité des systèmes d'information, la distorsion de l'information et les bases de données
- 4- La distorsion de l'information en informatique et les réseaux
- 5- La distorsion de l'information dans les sciences et les tendances des flux d'information
- 6- Les cyber crimes et les cyber attaques (cyber attacks)
- 7- La sécurité de l'information, le privé en informatique et l'éthique
- 8- La distorsion de l'information a l'échelle globale
- 9- La distorsion de l'information et les medias
- 10- Les interactions entre les systèmes d'information, la distorsion de l'information et la société digitale
- 11- La sécurité dans les systèmes d'information et "cloud computing"
- 12- Les impacts de la sécurité et de la distorsion dans les systèmes d'information sur "big data", les bases de données et les systèmes décisionnels.
- 13- La cryptographie et la sécurité dans les systèmes d'information
- 14- La sécurité des infrastructures de télécommunication
- 15- La sécurité des réseaux sans fil

Hélie, Solange Ghernaouti, (2008), "Sécurité Informatique et Réseaux: Cours et exercices corrigés", Dunod, Paris, 2nd edition, ISBN:978210052156-2

OECD, (2012), "OECD Internet Economy: Outlook 2012", OECD Publishing, Paris, ISBN: 978926408645-6

Liste partielle des publications de Orhan Güvenen sur “les systèmes d’information, la sécurité et la distortion des systèmes d’information”

Güvenen, O., (2014), “Big Data, Databases and Decision Systems Interactions”, presented at the Institute of Operations Research and the Management Sciences Annual Meeting 2014, INFORMS, November 10, 2014, San Francisco

Güvenen, O. (2013), “Mathematical Complexity, Chaos, and the Impact of Information Distortion on Decision Systems in Social Sciences”, Impact of Science and Technology on Society and Economy Conference, World Academy of Arts and Science (WAAS), 5 March, 2013, Trieste, Italy.

Güvenen, O. (2013), “Mathematical Complexity, Chaos, and the Impact of Information Distortion on Decision Systems in Social Sciences”, Impact of Science and Technology on Society and Economy Conference, World Academy of Arts and Science (WAAS), 5 March, 2013, Trieste, Italy.

Güvenen, O., (2012), “Ethics as a Necessary Condition in Optimal Systems: Risks, Rights and Regulations”, Statistics, Science and Public Policy, Volume: XVI, Chapter 9, A.M. Herzberg, Editor, ISBN: 978-1-55339-382-5 (bound), ISBN: 978-1-55339-383-2 (pbk.), Queen’s University, Kingston.

Güvenen, O., (2012) “2008-2011 World Economic Crisis, New Paradigms, Science Methodology, Information Systems and Decision Systems”, World Conference on Financial Crisis and Impact (WCFC2011), IGI Global, USA, (forthcoming).

Güvenen, O., (2011), “World Dynamics, Ethics, Security and Society”, Statistics, Science and Public Policy, Volume XV, Chapter 7, A.M. Herzberg, Editor, Queen’s University, ISBN: 978-1-55339-375-7, ISBN: 978-1-55339-375-0 Kingston.

Güvenen, O., (2011), “Media Studies and Communication: Research, Approach and Econometric Analysis”, Opening Speech, Applied Econometrics Association (AEA) 101.th International Conference”, July 2011, Porto

Güvenen, O., (2011), “Future of Numerical Society Discussion Paper”, Applied Econometrics Association (AEA) International Conference, July 2011, Porto

Güvenen, O., (2010), "Information Distortion and Its Impact on Decision Systems", presented at the Institute of Operations Research and the Management Sciences Annual Meeting 2010, INFORMS, 9 November 2010, Austin, Texas, USA.

Güvenen, O., (2010) "Information Systems, Security and Information Distortion Impacts on the Socio-Economic Structures", International Symposium on Computation in Science and Engineering, Gediz University, İzmir.

Güvenen, O., (2010), "İstatistik Bilimi, Etik, Dünya Dinamikleri, Bilgi Tahrifatı ve Karar Sistemlerine Etkileri", ODTÜ, İstatistik Sempozyumu, Ankara

Güvenen, O., (2009), "Internet-Use and Impact - Quantitative and Econometric Analysis", Applied Econometrics Association Conference, Marseille (President of the Applied Econometrics Association), November 5-6, 2009.

Güvenen, O., (2009), "Some Comments on World Dynamics, Science Methodology, Fuzzy Systems, Statistics, Econometrics and Information Systems", 1st Fuzzy Systems Symposium, TOBB University of Economics and Technology, Ankara, October 1-2, 2009.

Güvenen, O., (2009), Dünya Dinamikleri, İstatistik, Ekonometri, Bilgi Sistemleri, İş Dünyası ve Karar Sistemleri Etkileşimi, "Türkiye İstatistik Günü", Türkiye İstatistik Kurumu, Dokuz Eylül Üniversitesi, Yaşar Üniversitesi, Ege Üniversitesi, 7 Mayıs 2009, İzmir, Bilkent Üniversitesi, Dünya Sistemleri Ekonomileri ve Stratejik Araştırmalar Enstitüsü, Ankara.

Güvenen, O., (2009), "Bilim Metodolojisi, İstatistik, Ekonometri ve Bilgi Sistemleri Kapsamında Bazı Yorumlar", "10. Ekonometri ve İstatistik Sempozyumu", Atatürk Üniversitesi, 28-29 Mayıs 2009, Erzurum, Bilkent Üniversitesi, Dünya Sistemleri Ekonomileri ve Stratejik Araştırmalar Enstitüsü, Ankara

Güvenen, O., (2009), "Dünya Dinamikleri, İstatistik, Ekonometri, Bilgi Sistemleri, İş Dünyası ve Karar Sistemleri Etkileşimi", "Türkiye İstatistik Günü", Türkiye İstatistik Kurumu, Dokuz Eylül Üniversitesi, Yaşar Üniversitesi, Ege Üniversitesi, 7 Mayıs 2009, İzmir, Bilkent Üniversitesi, Dünya Sistemleri Ekonomileri ve Stratejik Araştırmalar Enstitüsü, Ankara.

Güvenen, O., M. H. Öztürk, (2007), "Information Distortion in Decision Support Systems and Respective Alternative Costs in Decisions Making Structures", presented at the Institute of Operations Research and the Management Sciences, INFORMS, Seattle, USA

Güvenen, O., (2007), "Use and Abuse of Statistics", OECD World Forum on Statistics, Knowledge and Policy, İstanbul

Güvenen, O., M. H. Öztürk, (2006), "An Analysis of Manipulated Information and Respective Alternative Costs in Information Systems and in Decision Making Structures", Cybernetics and Informatics Society, Vol II, ISBN 980-6560-80-9, pp149-154, Orlando, USA.

Güvenen, O., (2005), "ICT as a Factor in Human Development", in Perspectives on ICT and Human Development: Turkey, Boğaziçi University and UNDP Publications, İstanbul.

Güvenen, O., S.Babür, (2003), "Information Systems for Strategic Planning and its Socioeconomic Impacts", in 7th World Conference on Systemics, Cybernetics and Informatics Proceedings, International Institute of Systems Analysis and Cybernetics, Orlando, USA.

Güvenen, O., (2003), "Bilim Metodolojisi, İstatistik ve Karar Süreçleri", 3. İstatistik Kongresi Bildiriler Kitabı, Türk İstatistik Derneği ve İstatistik Mezunları Derneği, Ankara.

Güvenen, O., (2002), "Structures décisionnelles, les technologies, la mondialisation, l'éducation et la société du savoir", Les mémoires et les Savoirs, Rencontres de Versailles, Paris.

Güvenen, O., (2002), "Ulus Devlet ve Küresel Düzeyde Bigi Sistemleri, İstatistik Alt Yapıları ve Karar Süreçleri", 107'nci Yıl Konferansları, Harita Genel Komutanlığı Matbaası, Ankara.

Güvenen, O., (2001), "Bilişim Toplumu ve Çoğulcu, Katılımcı Demokrasi", Bilişim Toplumuna Giderken, Türkiye Bilişim Derneği Yayını, Ankara.

Güvenen, O., (2000), "Où va le Monde de l'Internet: techniques et économie", dans le Monde en Communication, Rencontres de Versailles, Paris.

Güvenen, O., (2000), "The Emerging Information Society: A Political Challenge", Perceptions, March-May 2000, pp. 22-43.

Güvenen, O., (2000), "The Interaction Between Econometrics, Information Systems and Statistical Infrastructures: Anticipation and Comparative Analysis in a Decisional Structure", Journal of the Turkish Statistical Association, Volume: 3, Sayı: 1-2, 2000, pp.47-57.

Güvenen, O., (1998), "The Emerging Information Society: A Political Challenge", in Kuru, S. (ed.), Proceedings of Euro Med Working Conference, Policies and Strategies for Euro-Mediterranean Information Society, Turkish Informatics Foundation in cooperation with European Commission, İstanbul.