

**DIPLOMACY IN THE INFORMATION AGE:  
THE USE OF INFORMATION TECHNOLOGIES IN VERIFICATION**

**A Ph.D. Dissertation**

**by  
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Ankara**

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THE USE OF INFORMATION TECHNOLOGIES IN VERIFICATION**

**The Institute of Economics and Social Sciences  
of  
Bilkent University**

**by**

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**In Partial Fulfillment of the Requirements for the Degree of DOCTOR of  
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**in**

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Bilkent University  
Ankara**

**September 2006**

I certify that I have read this thesis and have found that it is fully adequate, in scope and in quality, as a thesis for the degree of Doctor of Philosophy in International Relations.

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Supervisor

I certify that I have read this thesis and have found that it is fully adequate, in scope and in quality, as a thesis for the degree of Doctor of Philosophy in International Relations.

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## **ABSTRACT**

### **DIPLOMACY IN THE INFORMATION AGE: THE USE OF INFORMATION TECHNOLOGIES IN VERIFICATION**

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One of the major arguments of this dissertation is that the information revolution has had significant impact on verification of existing international agreements. To support this argument, the relation between information revolution and international relations is tackled by examining systemic and unit level effects as well as impacts of information revolution on security, conflict management and international cooperation, and then the theory and practice of verification is discussed in detail with emphasis on regime theories and issues challenging verification. Finally, the International Atomic Energy Agency (IAEA) and the Comprehensive Test Ban Treaty Organization (CTBTO) are selected as two case studies for the purpose of analyzing the impacts of information revolution. At the conclusion, based on the findings from the operations of the IAEA and the CTBTO, it is suggested that verification has become even more useful in international relations since it became more effective in detecting cheating thanks to the new information technologies.

Keywords: Information Revolution, International Relations, Verification, Arms Control

## ÖZET

### **BİLGİ ÇAĞINDA DİPLOMASİ: ANTLAŞMALARIN DOĞRULANMASINDA ENFORMASYON TEKNOLOJİLERİNİN KULLANIMI**

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**Danışman: Doç. Dr. Mustafa Kibaroğlu**

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Bu tezin temel argümanlarından bir tanesi de bilgi devriminin mevcut uluslararası anlaşmaların doğrulanmasında kayda değer bir etkisi olduğudur. Bu argümanı desteklemek için bilgi devrimi ile uluslararası ilişkiler arasındaki ilişki; bilgi devriminin güvenlik, çatışma yönetimi ve uluslararası işbirliğine etkilerinin yanı sıra, bu ilişkinin sistem ve birim bazlı incelenmesi yoluyla ele alınmıştır. Akabinde, anlaşmalarının doğrulanmasının teori ve uygulaması, rejim teorileri ve doğrulamayı zorlayan konuların özellikle vurgulanması suretiyle detaylı bir biçimde tartışılmıştır. Son olarak, bilgi devriminin etkilerini incelemek amacıyla Uluslararası Atom Enerjisi Ajansı (IAEA) ve Nükleer Denemelerin Yasaklanması Antlaşması Örgütü (CTBTO) iki örnek olarak seçilerek incelenmiştir. Sonuç kısmında ise, IAEA ve CTBTO uygulamalarından elde edilen bulgulara göre, yeni bilgi teknolojilerinin hileleri ortaya çıkarmada daha etkili hale gelmesinden beri, doğrulamann uluslararası ilişkilerde daha kullanışlı hale geldiği öne sürülmüştür.

Anahtar Kelimeler: Bilgi Devrimi, Uluslararası İlişkiler, Doğrulanmak, Silahların Kontrolü