



IEEE  
Intelligent Transportation Systems (ITS)  
Council,  
International Collaboration  
to help People Travel Smarter

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# IEEE



The Institute of Electrical and Electronics Engineers

A technical professional association of more than  
350,000 individual members in 150 countries.

30 percent of the world's published literature in  
electrical engineering, computers and control technology



# IEEE

## Dissemination of Knowledge

- Professional Meetings
- Publication of Proceedings
- Peer Review Publications, Transactions
- Rapid Dissemination:
  - Magazines: Paper and Electronic
  - Newsletters: Paper and Electronic



# History

## IEEE Activities

### in Intelligent Transportation Systems

Special Issues of the *Transactions on Vehicular Technology*  
Published in 1970, 1980 and 1990

*Vehicle Navigation and Instrumentation Systems Conference*  
**IEEE Vehicular Technology Society**

Multiple parallel session conference

1989 Toronto, Ont., Canada

1991 Dearborn MI, USA

1993 Ottawa, Ont., Canada

1994 Yokohama, Japan

1995 Seattle, WA, USA\*



# History

## IEEE Activities in ITS

### *Intelligent Vehicles Symposium*

### **IEEE Industrial Electronics Society**

Single session, specialists meeting

1992 - Detroit, MI, USA

1993 - Tokyo, Japan

1994 - Paris, France

1995 - Detroit, MI, USA

1996 - Tokyo, Japan

1998 - Stuttgart, Germany



# History

## IEEE Activities in ITS

- 1990 ITS America established by USDOT
- 1991 IEEE Standards Coordinating Committee on ITS standards (SCC-32) established
- 1993 IEEE Technical Activities Board (TAB) approves ITS Committee
- 1994 1<sup>st</sup> ITS World Congress, Paris, France
- 1996 IEEE funded as a Standards Developing Organization for USDOT
- 1999 IEEE TAB approves ITS Council  
IEEE TAB approves IEEE Transactions on ITS
- 2000 IEEE Transactions on ITS appears
- 2005 ITS Council becomes the IEEE ITS Society



# The ITS Council Members

## 17 IEEE Societies

- Aerospace and Electronic Systems Society
- Antennas and Propagation Society
- Communications Society
- Computer Society
- Consumer Electronics Society
- Control Systems Society
- Electromagnetic Compatibility Society
- Electron Devices Society
- Industrial Electronics Society



# The ITS Council Members

## 17 IEEE Societies

- Instrumentation and Measurement Society
- Microwave Theory and Techniques Society
- Power Electronics Society
- Reliability Society
- Robotics and Automation Society
- Signal Processing Society
- Systems, Man and Cybernetics Society
- Vehicular Technology Society



## IEEE ITSC Field of Interest

The theoretical, experimental and operational aspects of electrical and electronics engineering and information technologies as applied to Intelligent Transportation Systems (ITS).



## IEEE ITS Definition

Intelligent Transportation Systems are defined as those systems utilizing synergistic technologies and systems engineering concepts to develop and improve transportation systems of all kinds.



## IEEE ITSC Scope

The scope of this interdisciplinary activity includes the promotion, consolidation and coordination of ITS technical activities among IEEE entities, and providing a focus for cooperative activities, both internally and externally.



# IEEE ITS Council Conference:



The IEEE International Conference on  
Intelligent Transportation Systems  
focused on all aspect of ITS

1997 - Boston, MA, USA

1999 - Tokyo, Japan

2000 - Detroit, MI, USA

2001 - Oakland CA, USA

2002 - Singapore, September

2003 - Shanghai, PRC

2004 - Washington DC, USA

2005 - Vienna, Austria

2006 - Toronto, Canada

2007 – Seattle, WA, USA



# The 4th International IEEE Conference on Intelligent Transportation Systems



*Marriott Hotel, Oakland, California, USA  
August 25-29, 2001*

280 Papers Submitted

220 Peer Reviewed Papers Accepted/Published

Praise from the USDOT

Director, Office of Travel Management:

“My staff and I where very impressed with the quality of technical program!”



# The 4th International IEEE Conference on Intelligent Transportation Systems



*Marriott Hotel, Oakland, California, USA  
August 25-29, 2001*

220 Peer Reviewed Papers Accepted/Published  
from 28 countries, **14 papers from PRC**

Austria, Canada, Czech Republic, Egypt, Finland, France,  
Germany, Greece, Hong Kong SAR, India, Israel, Italy, Japan,  
Korea, Mexico, Morocco, Netherlands, **P.R. China**, Poland,  
Portugal, Singapore, Spain, Sweden, Taiwan R.O.C., USA,  
United Kingdom, Ukraine, and Uruguay.

Every continent except Antarctica!



# IEEE ITS Council Symposium: Intelligent Vehicles Symposium focused on the Vehicle

1999 Tokyo, Japan

2000 Dearborn MI, USA

2001 Tokyo, Japan

**2002 Paris, France**

2003 Columbus, OH, USA

2004 Parma, Italy

2005 **Beijing, PRC**