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\textsuperscript{st} 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
280 Papers Submitted
220 Peer Reviewed Papers Accepted/Published

Praise from the USDOT Director, Office of Travel Management:

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