

Greetings from Markus Fiedler



Highlights

70 Years ITC Celebration Session

ITC has always been a
« **second home** » for me,
meeting old friends,
and **having much fun!**

depth of the technical
discussions

**academic-industry
interaction**

Attending these ITCs
especially when I was a
PhD student was **really**
enriching for me

My first ITC was
an **overwhelming**
experience for me

the community's
commitment to bridging
rigorous theory with real-
world **challenges** in
networking and systems

tremendously
influential
conference

The congresses
were always a
highlight during the
year

➔ Now !

Fun Facts About



Many Logos Over the Years



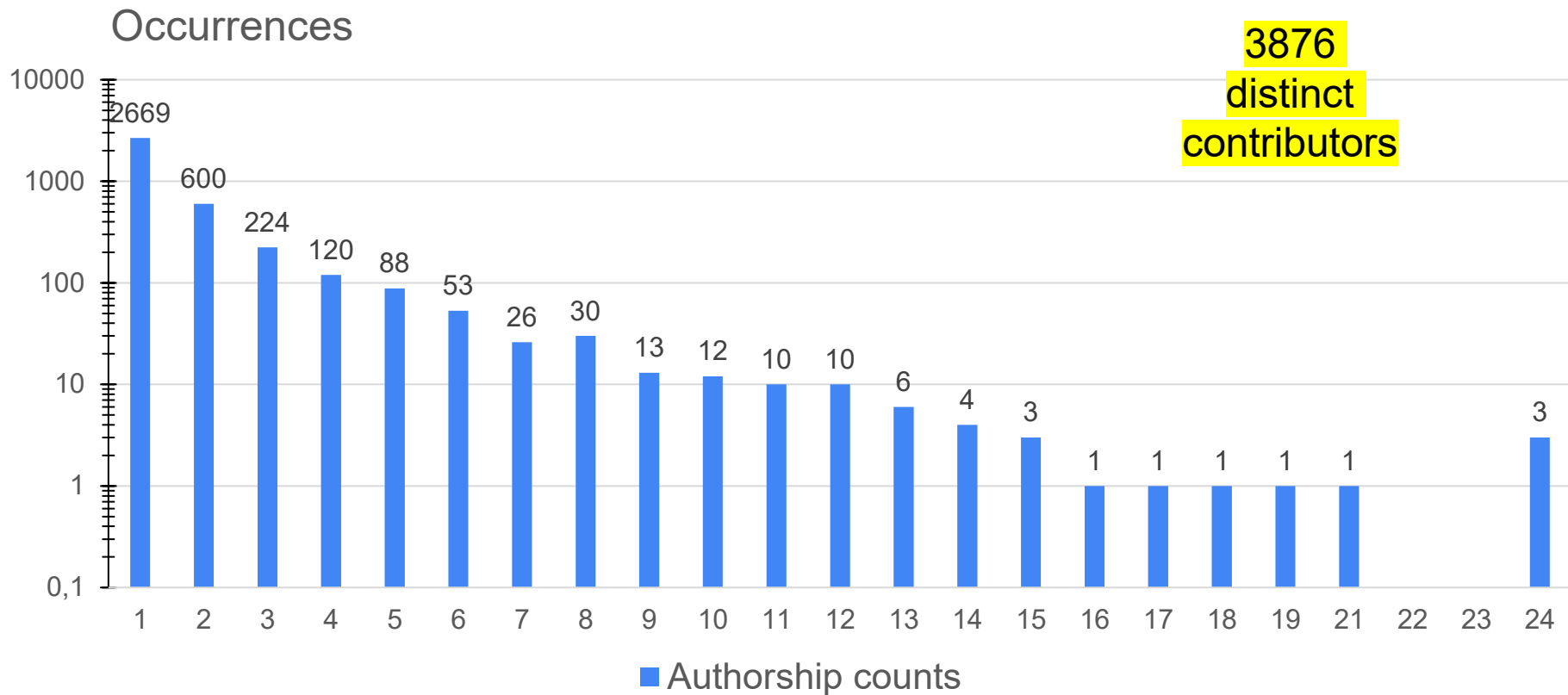
1997



1999



How many persons contributed how many times?



How Many Locations in 36 Editions?

- 33 cities
(3 duplicates)
 - 20 countries
 - 5 continents
 - but also 22 ITC
Specialist
Seminars
- Copenhagen, Denmark (2)
 - The Hague, Netherlands
 - Paris, France (2)
 - London, UK
 - New York, USA
 - Munich, Germany
 - Stockholm, Sweden
 - Melbourne, Australia
 - Torremolinos, Spain
 - Montreal, Canada
 - Kyoto, Japan
 - Torino, Italy (2)
 - Juan-les-Pins, France
 - Washington D.C., USA
 - Edinburgh, UK
 - Salvador da Bahia, Brazil
 - Berlin, Germany
- Beijing, China
 - Ottawa, Canada
 - Amsterdam, The Netherlands
 - San Francisco, USA
 - Cracow, Poland
 - Shanghai, China
 - Karlskrona, Sweden
 - Ghent, Belgium
 - Würzburg, Germany
 - Genoa, Italy
 - Vienna, Austria
 - Budapest, Hungary
 - Osaka, Japan
 - Avignon, France
 - Shenzhen, China (Virtual)
 - Trondheim, Norway

For the 60 Years Anniversary



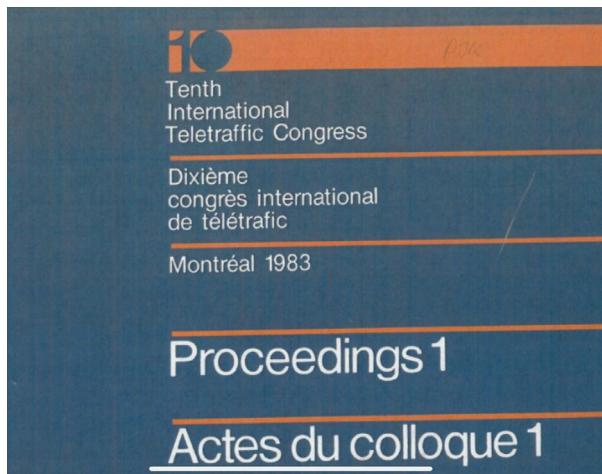
ITC Specialist Seminar – Adelaide, Australia – 1989



Proceedings Available

Papers available from ITC 6 on!

<https://itc-conference.org/itc-library>



Phuoc Tran-Gia took the initiative to digitalize the hardcovers



Creation and Early Years

ITC 10 – Montreal, Canada– 1983



Agenda

- What was the context?
- How was it then?
- How it all started?

ITC 11 – Kyoto, Japan – 1985



ITC History

- Created by Arne Jensen
 - to cater to the emerging need to understand and model traffic in **telephone networks** using stochastic methodologies
 - to bring together researchers with these considerations as a common theme
- First Congress in Copenhagen, Denmark **in memory of A.K. Erlang** with name
The First International Congress on the Application of the Theory of Probability in Telephone Engineering and Administration
- An International Advisory Committee (IAC) was designated to represent the corresponding community

3 IAC Chairs on a Picture



Paul J. Kühn
(right)
1991 – 2007

Prosper Chemouil
(left)
2007 – 2015

Michela Meo
(center)
2015 – 2022

ITC History

- Frequency: every 3 years like many congresses back then
- Paper selection: mainly made by the IAC
first by invitations and later based on abstracts
- Name International Teletraffic Congress (ITC) coined for 3rd event (1961)
- ITC 3 - ITC 13: from Wednesday till Tuesday, including social events during the week-end

ITC 12 – Torino, Italy – 1988



What People Said

« In the early days of the ITC it was the main forum where the telcos and academics interacted and gave rise to a number of important research areas and results. »

« I joined the “networking” organization at Bell Labs at a time (1960s) when the major work of our “Center (about 100 people)” was teletraffic, our researchers and managers were well-known in the ITC community and the ITC was the way we communicated our important ideas and results to the world. It was an exhilarating time. »

Industry or Academia?



"We always had a big delegation going to ITC Congresses"

Who Do You Remember Meeting at ITC?

CELEBRATION :									
Honor	and	Respect	Lead/led to	Being Changed by Their					
Appreciate Praise		Deference Reference							
Consideration									
	ITC 8	ITC9	ITC10	ITC11	ITC12	ITC13			
	1976	1979	1983	1985	1987	1991			
	Melbourne	Torremolinos	Montreal	Tokyo	Turin	Copenhagen			
	~180 papers	~200 papers	~200 papers	~200 papers	~200 papers	~200 papers			
	Harris R.J	*** Forsy L.J.	Gonzalez S.	Levy Y.	Whitt W.	*** Forsy L.			
	Berry L.T.M	Zucker R.	Warfield R.	Overseen V	*** Forsy L.	** Erramilli A.			
	Franks R.L	Mansfield D.	Booting V.	Warfield R	** Henderson W.	Ramaswami V.			
	Horing S	Berry L.	Ash G.	Wozniak	Levy Y.	** Rumsewicz M.			
	Olsson K.M.	Booting V.	Katz S.	Heffes H.	Wirth P.	Whitt W.			
	Delbrouk L.	Neal S.	Berry L.	Elsinger D.	Tran-Gia P.	Wirth P.			
	Koster L.	* Holtzman J.	Friedman I	* Pack C.	* Descoux A.	Decina M.			
	Eisenberg M	Hager and.	Farel R.	Warfield R.	Fredericks A.	Doshi B.			
	* Pearce C.	Friedman I	* Wirth P.	Eckberg E.	Sengupta B.	Heffes H.			
	Potter R	Le Gall P.	Pawlita P.	Bolotin V.	Halfin S.	Schehrer P.			
	Schreher R.	Harris R.	*** Forsy L.	* Jajszczyk A	* Holtzman J.	Le Gall P.			
	Freeman K.	Katz S.		Ramaswar	* Neidhardt A.	Berry L.			
	Lind G.	* Myskja A.		* Jensen A.	* Pack C.	Filipiak J.			
	Pratt C.	Cohen J.		* Descoux E.	Ramaswami	Neuts M.			
	Le Gall P.	Segal M.		* Pearce C.	Filipiak J.	Farel R.			
	Lottery A.	* Descoux A		*** Forsy L.	Kuhn P.	Fredericks A.			
	Pawl it's P.	Lindberg K.		Fredericks	* Jajszczyk A	* Myskja A.			
	Eisenberg M.	Iverson V.		Kappel J.	Dishing B.	Krishnan K.			
	Cohen J.	Potter R.		Segal M.	Gonzalez S.	Delbrouck L.			
	Inverse n V.	Mina R.		* Holtzman J.	Bolotin V.	* Jajszczyk A.			
	* Myskja A.	* Pack C.			Lucatoni D.	Harris R.			
	Heffes H.	Hofstetter H.			Kaufman J.				
	* Holtzman J.				Heffes H.				
	Sepal M.								
		* Jensen A.							



Golden Age

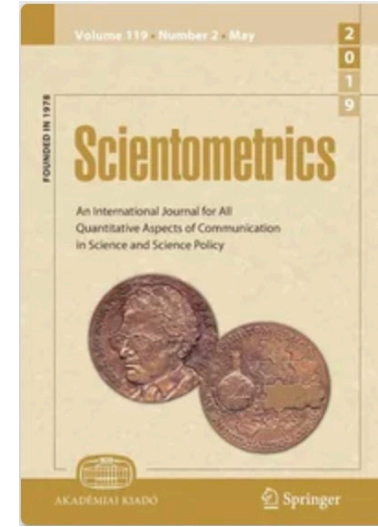
Agenda

- Scientific focus
- Main breakthroughs
- Impacts beyond teletraffic
- Testimonies about that

Elsewhere: <https://doi.org/10.1007/bf02017071>

E. Kranakis and L. Leydesdorff, *Teletraffic conferences: Studying a field of engineering science*, *Scientometrics*, 15(5-6):563–591, May 1989:

Abstract: Titles of 925 conference papers contained in the first ten International Teletraffic Conferences (1955–1983) are analyzed in terms of word distributions. The aim is to determine how information about changing word frequencies and word patterns relates to the kind of information gained through the more traditional approach of intellectual history. Additionally, we consider what each approach can reveal about the information flows involved in the production and utilization of knowledge in teletraffic. In terms of methodology, the goal of this dual approach is to understand how the analysis of word and document structures can be used both as a scientometric tool and as a tool for historical research. We also comment more generally on the significance of conferences as an object for scientometric analysis, particularly with respect to the emergence and growth of the engineering and industrial sciences.



What People Said

« It was a privilege to create relationships with world-renowned technical experts and learn from them. Most of the leading experts in teletraffic theory and practice participated in ITC. »

« Over my 36-year career at Bell/AT&T-Labs I attended a wide variety of conferences [...] ITC was the premier technical organization in my opinion that had the most noteworthy experts and where I benefited the most. »

ITC 14 Closing – Juan-Les-Pins, France – 1984



What People Said

« I also made friends with many researchers of teletraffic and networks from various countries, which was very meaningful for the promotion of my own work. »

« I got two best paper awards at ITC and they were very important in my research career. »

« The key about ITC meetings is that they were very convivial to the academic industry interaction but also engendered some very important projects. »

ITC 15 – Washington D.C., USA – 1987



What People Said

« ITC has been a tremendously influential conference in teletraffic theory and in networking more generally. »

« Amongst the key ideas that emerged at ITC were multirate network models (Kaufman-Roberts), the notion of effective bandwidths (Kelly and others), the study of queues with heavy-tailed inputs (Willinger etc), and more recently the ideas of "Power-of-two" load balancing. »

ITC 19 – Beijing, China – 2005





Community and Friendship

Memories of Abdulhalim Dandoush

Microsoft Teams

ITC memory

2025-05-15 06:06 UTC

Recorded by

Dandoush, Abdulhalim

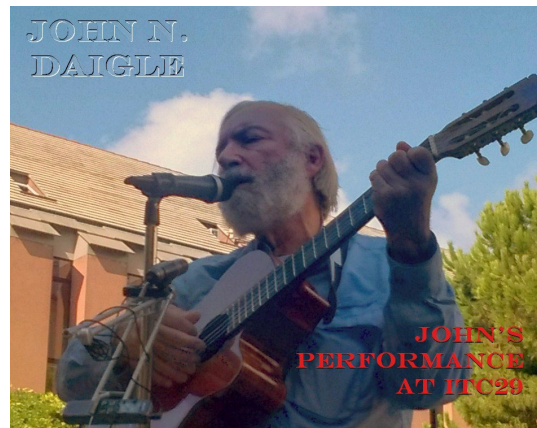
Organized by

Dandoush, Abdulhalim

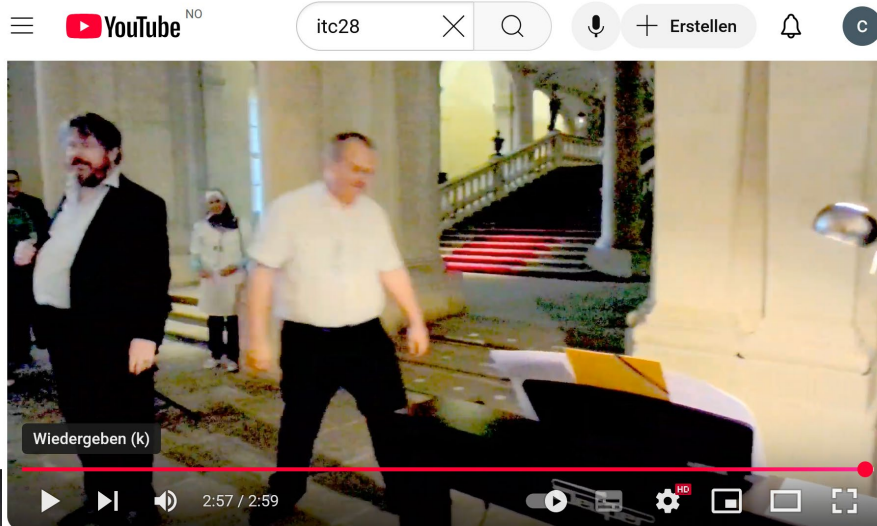
Agenda

- Social activities
- Companions Programs
- Travel grants

Music Is a Thing



ITC 29



Peter Reichl sings accompanied by Markus Fiedler (2) ITC 28 reception



Eitan Altman
181 Abonnenten

Abonnieren



7



Teilen



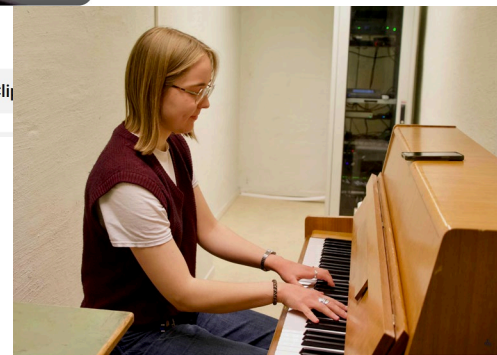
Clip



ITC 26



ITC 36



What People Said

« The congress was extremely valuable in creating a community. It was good to meet regularly and make friends with colleagues from all over the world. The side discussions were important for understanding what the most interesting topical subjects were and for gaining mutual respect between colleagues, etc. It was also good to meet new people and mingle at some very enjoyable social events! »

« The congresses were always a highlight during the year. Meeting the well-known experts and getting feedback, especially as young PhD student, from key persons in networking and queueing theory was simply amazing. »

Boat Trips Seem To Be a Thing...?



What People Said

« Some nice memories:

1. ITC in Torino 1988 when Richard Harris from Telecom Australia caught up with me in the street, passed his business card and said that he and his colleagues found my works interesting. A seemingly small thing but **life-changing** me; and a few years later I had two wonderful positions as postdoc in Australia where I also met my wife to be.
2. A grand **dinner at the beach in Cannes** 1984 during the ITC in Juan-les-Pins. Tourists strolling along the beach promenade, who most likely took us for film stars rather than scientific stars :-), where busily taking photos of us and we tried to wave back like we imagined film stars might do. »

ITC 26 – Karlskrona, Sweden – 2014



What People Said

« Many spectacular “Companions Programs” were sponsored at each congress, which greatly enhanced the social interactions. Sometimes the “Companions Programs” were so good that the companions of the companions skipped the technical sessions and joined the companions. »

Travel Grants Awardees – ITC 31 – 2019



Online Community ITC 32 – 2020



Community

70th Anniversary *International Teletraffic Congress*



A look back at ITC

By Prosper Chemouil, Gerald A. Ash, James W. Roberts

This report does not aim at over-viewing all ITCs, and it is only a testimony from 3 active participants who witnessed the vivacity of the teletraffic community during 35+ years and who want to share some memories in different directions, organizational, scientific or more personal.



ITC 36 – Trondheim, Norway – 2025

Casting

Sara Alouf

Tobias Hossfeld

James Roberts

Ake Arvidsson

Yuming Jiang

Hiroshi Saito

Gerald Ash

Konosuke Kawashima

Kohei Shiimoto

Prosper Chemouil

Ravi Mazumdar

David Songhurst

György Dán

Michela Meo

Miklós Télek

Abdulhalim Dandoush

Arpan Mukhopadhyay

Hans van den Berg

Franco Davoli

Giovanni Neglia

Rob van der Mei

Peder Emstad

Charles Pack

Sabine Wittevrongel

Markus Fiedler

Ronnie Potter

Thomas Zinner



Perspectives

Next ITCs

- Open call for potential organisers to schedule ITCs in upcoming years
- Register to ITC mailing to receive further news:
requests for registration can be sent to
sabine.wittevrongel@ugent.be

- Question to authors of presented papers: what was your motivation to submit your paper to ITC?
- In case you submit papers to other conferences, not to ITC, what is the main topic of those conferences?
- Further input can be sent to sabine.wittevrongel@ugent.be