

**INTERNATIONAL WORKSHOP ON MULTIPLE ACCESS COMMUNICATIONS
(MACOM-2008)**

affiliated with

**15TH INTERNATIONAL CONFERENCE ON TELECOMMUNICATIONS
(ICT-2008)**

Saint-Petersburg, Russia
16th June 2008

Organized by:



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Topics of interest include:

- multi-user information theory;
- multiple access techniques, queuing theory methods and polling systems analysis;
- MAC protocols development and analysis;
- PHY/MAC cross-layer techniques.

Important dates

- **Paper submission deadline: February 25, 2008;**
- Notification of acceptance: March 20, 2008;
- Camera ready version: April 15, 2008;
- Workshop date: June 16, 2008.

Contacts:

Workshop information (MACOM-2008 web-page):

<http://www.csit-spb.ru/macom2008.html>

Questions and proposals,
General Chair:

vinel [at] csit-spb [dot] ru
vinel [at] ieee [dot] org

ICT-2008 web page:

<http://www.ict08.org/>

Paper Submission (IEEE Template, PDF format),
TPC Chairs:

<http://www.edas.info/>

Aims and background

Claude Shannon established the foundation for the discipline now known as "multi-user information theory" in his pioneering paper "Two-way Communication Channels" in 1961 and later Norman Abramson published his paper "The Aloha System – Another Alternative for Computer Communications" in 1970 which introduced the concept of multiple access using a shared common channel. Thereafter for more than 40 years of study, numerous elegant theories and algorithms have been developed for multiple access techniques.

In recent years, broadband wireless data networks (for instance, IEEE 802.11 Wi-Fi, IEEE 802.16 WiMAX) are driving the development of telecommunication industry and beyond 3G (B3G) wireless systems are expected to provide a variety of multimedia services in a wide range of wireless and mobile environments. To use the scarce bandwidth resource of the wireless channel, it is necessary to design channel access control techniques for a large population of users (potentially hundreds of mobile stations).

The aim of this workshop is to discuss both multi-user communications theory and multiple access techniques and standardization activities in areas related to PHY and MAC layer protocols for contemporary networks and their interactions. We intend to provide the experts from both the academic institutes and industry with an opportunity to present their art-of-the-state results and exchange the ideas on multiple access techniques and related areas.

Paper submission

Authors are invited to submit full papers in English of not more than 5 pages (including figures, tables & references) in IEEE double-column format. Submissions must present original work that has not been previously published, and is not under submission elsewhere. The Technical Program Committee and external reviewers will review all articles for scientific quality. Submissions should use the general IEEE template with the minimum font size of 10 points. All papers must include a title, complete contact information for all authors, and keywords on the cover page. The corresponding author should be identified clearly. Accepted papers will be published in **IEEE Xplore** and ICT-2008 proceedings.

Papers must be submitted in PDF format via EDAS system:

<http://www.edas.info/>

Tutorials submission

MACOM-2008 will host tutorials alongside the technical sessions. Tutorial presenters are invited to submit high-quality tutorial proposals on novel and emerging topics related to the general focus of the workshop. Tutorials should generally be self-contained in nature. Tutorial proposals must be sent to General Chair.

Venue



Saint-Petersburg, the second biggest city in Russia, is one of the main cultural, historical and architectural centers of the country. The city was named in the honor of the saint patron of Peter The Great, who founded Petersburg in 1703. He modeled the city after European capitals and it has been referred as Russia's "Window to Europe" for a long time. For more than 200 years (till 1918) St. Petersburg was Russian capital. St. Petersburg is divided into numerous islands by rivers and canals and is often called "Northern Venice". Palaces, museums, theaters, parks and beautiful suburbs made St. Petersburg a renowned piece of the world cultural heritage. Workshop will be held during the period of so-called "White Nights". No other major European city can rival neither this experience nor the atmosphere on the streets of St.-Petersburg during the summer months – lively, friendly, romantic and bustling with people in almost broad daylight, no matter what the time of day!

Workshop Committee

General Chair:

- Alexey Vinel (Saint-Petersburg State University of Information Technologies, Mechanics and Optics, Russia)

Vice-Chair:

- Adolf Finger (Dresden University of Technology, Germany)

Publicity Chair:

- Khalid Al-Begain (University of Glamorgan, Pontypridd, UK)

TPC Co-chairs:

- Vladimir Vishnevsky (Institute for Information Transmission Problems, Moscow, Russia)
- Felix Taubin (Saint-Petersburg State University of Aerospace Instrumentation, Russia)

Technical Program Committee:

- Khalid Al-Begain (University of Glamorgan, Pontypridd, UK)
- Sergey Andreev (Saint-Petersburg State University of Aerospace Instrumentation, Russia)
- Konstantin Avrachenkov (INRIA, Sophia Antipolis, France)
- Eduard Babulak (Fairleigh Dickinson University, Vancouver, Canada)
- Abdelmalik Bachir (Grenoble Institute of Technology, France)
- Alexandre de Baynast (RWTH Aachen University, Germany)
- Giuseppe Bianchi (University of Roma Tor Vergata, Italy)
- Thomas M. Bohnert (Siemens Corporate Technology, Munich, Germany)
- Antonio Capone (Politecnico di Milano, Italy)
- Claudio Cicconetti (University of Pisa, Italy)
- Periklis Chatzimisios (Technological Educational Institution of Thessaloniki, Greece)
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- Young-June Choi (NEC Laboratories America, New York, USA)
- Alexander Dudin (Belarusian State University, Minsk, Belarus)
- Alexey Dudkov (University of Turku, Finland)
- Stanislav Filin (National Institute of Information and Communications Technology, Japan)
- Adolf Finger (Dresden University of Technology, Germany)
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- Ernst Gabidulin (Moscow Institute of Physics and Technology, Russia)
- Laszlo Gyorfi (Technical University of Budapest, Hungary)
- Benny Van Houdt (University of Antwerp, Belgium)
- Gang Uk Hwang (Korea Advanced Institute of Science and Technology, Republic of Korea)
- Reza Karimi (Ofcom, London, UK)
- Valentina Klimenok (Belarusian State University, Minsk, Belarus)
- Matthias Lott (Nokia Siemens Networks, Munich, Germany)
- Andrey Lyakhov (Institute for Information Transmission Problems, Moscow, Russia)
- David Malone (Hamilton Institute, Maynooth, Ireland)
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- Alexander Sayenko (Nokia Research Center, Helsinki, Finland)
- Dirk Staehle (University of Wuerzburg, Germany)
- Michael Tangemann (Alcatel-Lucent Bell Labs, Stuttgart, Germany)
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- Gennady Yanovsky (Bonch-Bruевич St. Petersburg State University of Telecommunications, Russia)
- Yunpeng Zang (RWTH Aachen University, Germany)
- Yan (Josh) Zhang (Simula Research Laboratory, Norway)