

The First Announcement and Call for Papers
The Third International Workshop
"Mathematical Methods, Models and Architectures for Computer
Networks Security" (MMM_ACNS-05)

September 24-28, 2005, St. Petersburg, Russia
<http://space.ias.spb.su/mmm-acns05/>

Sponsors:

1. Office of Naval Research Global, USA
2. European Office of Aerospace Research and Development USAF, USA
3. Russian Foundation for Basic Research

Organizers:

- St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS)
- St. Petersburg Scientific Center of the Russian Academy of Sciences
- Binghamton University (State University of New York)
- European Office of Aerospace Research and Development USAF
- European Office of Naval Research International Field Office

Title and scope:

The First and Second International Workshops "Mathematical Methods, Models and Architectures for Computer Networks Security" (MMM-ACNS-2001 (<http://space.ias.spb.su/mmm2001/main.jsp>) and MMM-ACNS-2003 (<http://space.ias.spb.su/mmm-acns03/index.jsp>)) organized in 2001 and 2003 respectively by St. Petersburg Institute for Informatics and Automation, Binghamton University (SUNY) and US Air Force Research Laboratory/Information Directorate and supported by the European Office of Aerospace Research and Development USAF, Office of Naval Research Global, and Russian Foundation of Basic Research were very successful. These workshops demonstrated the high interest of the international scientific community to the theoretical aspects of the computer network and information security and the need for conducting of such workshops as on-going series. The proposed MMM-ACNS-2005 Workshop is intended as a third step in this series and will be focused on theoretical problems in the area under consideration. Its objectives are to bring together leading researchers from academia and governmental organizations as well as practitioners in the area of computer networks and information security, facilitating personal interactions and discussions on various aspects of information technologies in conjunction with computer network and information security problems arising in large-scale computer networks engaged in information storing, transmitting, and processing.

Topics of interest:

Papers offering novel research contributions in any aspect of the theoretical aspects of the computer network and information security are solicited for submission. Papers may present theory, technique, and applications on topics including but are not restricted to:

- Adaptive security
- Anonymity and privacy
- Authentication and authorization
- Access control
- Computer and network forensics
- Data and application security
- Data mining, machine learning, immunological and cognitive approaches to security
- Deception systems and honeypots
- Denial-of-service attacks and countermeasures
- Electronic commerce security
- Formal analysis of security properties
- Game theoretic approaches to security
- Information flow analysis
- Information survivability
- Information warfare and critical infrastructure protection
- Integrated information security systems based on information fusion
- Intrusion and fraud avoidance, detection, response and tolerance
- Insider attack countermeasures
- Language-based security
- Modeling malicious behavior or attacks
- Monitoring and surveillance
- Network perimeter controls: firewalls, packet filters, application gateways
- New ideas and paradigms for security
- Operating system security
- Public key infrastructure, key management, certification, and revocation
- Risk analysis and risk management
- Security of emerging technologies: sensor networks, wireless/mobile (and ad hoc) networks, personal communication systems, peer-to-peer and overlay network systems
- Security of autonomous agents and multi-agent systems: protecting agents and agent infrastructure from attacks, secure agent communication, secure mobile agents and mobile code, trusted agents
- Security modeling and simulation
- Security policies: specification, refining, verification, implementation, deployment and management
- Security requirements engineering
- Security specification and verification
- Trust establishment, negotiation, and management, including trust and reputation in virtual organizations
- Virtual private networks
- Viruses, worms, and other malicious code

- Vulnerability assessment
- Wireless communication security
- World wide web security

Submitting a paper

The workshop welcomes original papers from academic, government, and industry contributors on mathematical approaches and models, state-of-the-art techniques, and novel applications in the above proposed areas. All submissions will be subjected to a thorough review by at least three reviewers. Draft versions of original full papers up to 5500 words in English, including abstract (up to 300 words) and keywords (5 to 8), should be submitted by March 15, 2005 or sooner through the upload facilities at the Workshop web site <http://space.iias.spb.su/mmm-acns05/> or to the e-mail address mmmacns05@iias.spb.su. Only electronic submissions in MS Word 6.0 or advanced versions, PostScript and PDF formats will be considered. The Program Committee will make the final selection based on peer reviewers' evaluation. The primary focus is on high-quality original unpublished research, case studies and implementation experiences. Notification of acceptance/rejection will be disseminated by May 1, 2005. Camera-ready versions of accepted papers (see below) are due June 1, 2005.

Proceedings

Accepted papers will be published by Springer Verlag in its Lecture Notes in Computer Science (LNCS) series. Instructions for authors will be provided at the MMM-ACNS-2005 web site (<http://space.iias.spb.su/mmm-acns05/>).

Guidelines for the camera-ready manuscripts of the accepted papers

Proceedings of the Workshop are planned to be published by Springer Verlag Publishers in its "Lecture Notes in Computer Science" series (<http://www.springeronline.com/lncs>). That is why camera-ready manuscripts of the

accepted papers should be formatted in accordance with Springer Verlag Publishers requirements (in MS Word or LATEX formats). The respective information and links could be found at Web site of Springer Verlag "Authors Instructions sub-page"

<http://www.springeronline.com/sgw/cda/frontpage/0,11855,5-164-2-72376-0,00.html#anchor9>

The authors of accepted papers must strictly follow the aforementioned rules and templates. Camera ready paper submission can be made via e-mail mmmacns05@iias.spb.su and also uploaded through the Workshop web site at <http://space.iias.spb.su/mmm-acns05/>.

Conference Languages

The working languages are English and Russian. Simultaneous translation will be provided.

Dates of meeting:

Inclusive dates of meeting:

September 24-28, 2005 (arrival and registration – on September 24, technical program – on September 25-27, departure – on September 28)

Important dates

For submission:

Paper drafts: March 29, 2005 (extended)

Acceptance/rejection notification: May 1, 2005

Camera ready papers June 7, 2005

For registration:

Early registration deadline August 15, 2005

On site registration September 24, 2005

Hotel reservation request: August 15, 2005

Notice: The dates of the Workshop can be slightly changed if a conflict with other security oriented scientific event is revealed.

All materials concerning MMM-ACNS-2005 preparation, program, and other arrangements will be posted on a regularly updated web site <http://space.ias.spb.su/mmm-acns05/> .

Conference Chairmen:

Prof. R.M. Yusupov, Director of the St. Petersburg Institute for Informatics and Automation of the Russian Academy of Sciences (SPIIRAS)

Phone: 7-(812) 328-33-11 Fax: 7-(812) 328-44-50

E-mail: spiiran@mail.ias.spb.su

Mr. Igor G. Plonisch, Chief of the Strategic Planning and Business Operations Division of the Information Directorate of the Air Force Research Laboratory (AFRL)

E-mail: Igor.Plonisch@rl.af.mil

Local contact person

Irina Podnozova

Phone 7-(812)-328-44-46 Fax: +7(812)-328-06-85

E-mail ipp@mail.ias.spb.su

Local Organizing Committee

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Vijay Varadharajan (Australia)
Piotr Zegzhda (Russia)

Location of the meeting:

MMM-ACNS-2005 will take place in the historical building "Palace of Grand Prince Vladimir Romanov", now "House of Scientists", located in the heart of St. Petersburg, address: 26, Dvortsovaya emb. St.Petersburg, 191186, Russia. This venue allows the conference organizers to arrange for the workshop itself as well as for the associated events (informal discussions, reception, breaks, etc.).

Accommodation

All participants are expected to arrive to St. Petersburg directly. Workshop organizers intend to arrange for transportation upon arrival and departure to/from workshop venue/other hotel upon separate requests. The following assistance in housing could be provided for by local organizers. We intend to engage a travel company to assist participants in housing and cultural programs. It is possible to make reservations at reasonable price in hotels in St. Petersburg downtown area from \$75 per night (single room), and from \$85 per night (double room). Also reservations in better and more expensive hotels at \$130 - \$400 per night can be offered (hotels like Astoria, Europe, Nevsky Palace, etc.).

Visa support

To come to Russia all foreign participants will need an entering visa. As a host institution SPIIRAS will handle this issue through a formal invitation letter to every participant. To issue such a letter we shall need the following details to include in the above letter for every individual: first name, middle name, surname, date of birth, citizenship, passport No, expiration date (as appears in a valid passport). In addition, each individual has to fax us a copy of the page(s) of his/her passport bearing the above listed data at +7(812)328-06-85.

Notice:

Further information (visa support, registration, accommodation, etc. will be available at the Workshop web

site <http://space.iias.spb.su/mmm-acns05/> after submission
deadline in March 29, April 2005.

Any questions can be addressed to

Prof. Igor Kotenko (MMM-ACNS-2005 PC Co-chairman)
Department of Intelligent Systems
St. Petersburg Institute for Informatics and Automation
of the Russian Academy of Sciences
39, 14th Liniya, St. Petersburg, 199178, Russia
Telephone: +7-(812)-323-3570
Fax: +7-(812)-328-0685
E-mail: ivkote@mail.iias.spb.su