

Curriculum vitae of Prof. Antonio Lioy

Antonio Lioy holds a “laurea” (a.k.a. M.Sc.) in Electronic Engineering *summa cum laude*, and a Ph.D. in Computer Engineering, both from Politecnico di Torino, Italy.

He is currently Full Professor of Computer Engineering at the Dipartimento di Automatica e Informatica (i.e. Department of Computer and Control Engineering) of the Politecnico di Torino where he is in charge of the courses “Computer systems security” and “Design of web systems and computer networks”.

Initially the research interests of Professor Lioy were in the field of computer-aided design and test of digital circuits, where he achieved important results in the areas of fault collapsing and automatic test generation, and participated in several research projects funded by the European Commission (EC), SGS-Thomson, and DEC.

Since 1994 these interests have moved to the field of computer and network security, with special emphasis on PKI, e-identity, network and application security, and policy-based and ontology-based design of the protection for large information systems.

Prof. Lioy leads the TORSEC research group which performs research and consultancy projects in the field of network and computer security, for both public agencies and private companies. This group took or is taking part to several projects, including the following ones:

- ICE-TEL (1996-98) and ICE-CAR (1999-2000, both funded by EC/DG-XIII), to setup the first experimental European public-key infrastructure based on X.509 certificates and to develop related security applications (such as digital signature, secure web and secure e-mail).
- DISTINCT (1998-99, EC/DG-XIII) for the deployment of Internet-based services offered by public administrations to citizens, with mobility and security provided by smart-cards.
- GUIDES (1999, EC/DG-XIII) for the development of guidelines towards setting up a certification authority for a public administration.
- AIDA (2000-2001, EC/DG-XIII) for the development of a secure e-government infrastructure and a portable digital signature device WYSIWYS (What You See Is What You Sign).
- TESI (2000-2003, EC/Eureka-ITEA) for the development of an European-controlled computer and network security framework.
- NASTEC (2001-2002, EC/DG-INFOSOC) for the deployment of a security infrastructure into the EC’s Newly Associated Countries in Eastern Europe.
- POSITIF (2004-2007, EC/DG-INFOSOC, IST FP6) to develop a security architecture based on formal policies, with the related tools for automatic system configuration and management; **Prof. Lioy was the Coordinator and main proposer of this project** (11 partners, 2.5 million Euro total funding).
- Open_TC (2005-2009, EC/DG-INFOSOC, IST FP6) to develop an “open” Trusted Computing system based on Linux; Prof. Lioy was in the Steering Board of this project.
- Deserec (2006-2008, EC/DG-INFOSOC, IST FP6) to develop methodologies and tools to increase the dependability of a complex networked information system, as part of a Critical Infrastructure Protection plan; **Prof. Lioy was the Scientific Manager of this project**.
- OPEN-GATE (2006-2010) Italian project for the development of a secure telematic platform for automotive applications.
- MEADOW (2006-2010) Italian project for the development of a secure and robust wireless platform for home applications (automation and entertainment).

- Stork (2008-2011, EC, ICT-PSP) to create a European interoperability platform for electronic identification systems and to develop digital cross-border services based on the European e-IDs; Prof. Liroy was a member of the Executive Committee of this project and represented Italy in its Member States Council.
- TCCLOUDS (2010-2013, EC/DG-INFOSOC, IST FP7) for the definition of an architecture and tools to create trusted cloud computing environments;
- POSECCO (2010-2013, EC/DG-INFOSOC, IST FP7) to develop methodologies and tools for policy-based security configuration creation, analysis, and audit; Prof. Liroy is in the Steering Board of this project.
- WEBINOS (2010-2013, EC/DG-INFOSOC, IST FP7) for the development of a web-based open and secure framework for mobile applications usable across different personal devices (e.g. smartphone, smart-TV, car infosystems).
- Stork 2.0 (2012-2015, EC, ICT-PSP) for extending the e-ID interoperability framework of Stork to legal persons, business roles, and more general personal attributes; prof. Liroy represents Italy in the Member States Council of this project.
- e-SENS (2013-2016, EC, ICT-PSP) to consolidate the results of previous European Large Scale Pilot projects and create common building-blocks for the European Interoperability Architecture; in this project Prof. Liroy leads the workpackage related to e-ID, security and trust.
- ASPIRE (2013-2016, EC/DG-CONNECT, IST FP7) to design and test advanced techniques for software-based protection of consumer devices and digital contents; Prof. Liroy is in the Steering Board of this project.
- SECURED (2013-2016, EC/DG-CONNECT, IST FP7) to design and test an innovative architecture to offload security functions from personal devices into the network; **Prof. Liroy is the Coordinator of this project** (7 partners, 2.7 million Euro total funding).
- CLIPS (2014-2016, EC, ICT-PSP) for creating and experimenting a cloud-based architecture to offer public services, with enhanced features with respect to service composition, security and identity management.
- SDIM (2014, EIT ICT labs) to design a secure digital identity ecosystem for mobile electronic devices.
- FIDES (2015, EIT ICT labs) to design a privacy-preserving federated identity management system building on the results of relevant European initiatives, such as Stork, FutureID, and SDIM.
- FICEP (2016-2019, CEF Telecom) to integrate the Italian electronic identity architecture SPID into the European eIDAS framework; **Prof. Liroy is the technical Coordinator of this project** (4 partners, 0.6 million Euro total funding).
- SHIELD (2016-2019, EC/DG-CONNECT, H2020) to design and test a secure and trusted advanced network infrastructure based on SDN (Software-Defined Networking) and NFV (Network Function Virtualization).

Prof. Liroy is author of more than 100 scientific and technical papers, and he is a registered Professional Engineer in Italy, a member of the IEEE and the IEEE Computer Society.

For his specific knowledge in the field of computer security, he was a member of the technical committees that supervised the deployment of digital signature and electronic documents within the network of CNR (the Italian National Research Council) and the Cities of Asti, Bologna, Modena, Moncalieri, Rome and the Province of Macerata.

In the years 1997-2006 Prof. Lioy led the execution of the consultancy contract between the Politecnico di Torino and the Italian Department of Justice, related to various topics in network and application security.

From 1998 to 2002 Prof. Lioy was a member of the OTS-GARR (i.e. the steering group for the Italian research network).

Since June 1999 he is a reviewer for the European Commission (EC) for research projects in the trust and security area; this involves proposal evaluation and execution monitoring of funded projects. With reference to this last point, Prof. Lioy was a reviewer of the following projects: TIE (2000-2001), PKIchallenge (2002-2003), LaMer (2002-2003), EISPP (2002-2004), SMART_MEIJI (2004), Mosquito (2005-2006), SERSCIS (2010-2013), ECRN (2010), EMILI (2011-2013), STANCE (2013-2014), and SWEPT (2015). Moreover he was an evaluator for research proposals submitted to the EC in the FP5 (1999), FP7 (2012), and H2020 (2014-2016) research programmes.

Since January 2000 he leads EuroPKI, a no-profit Public-Key Infrastructure (PKI) present in several European countries to support security in networks, networked applications and electronic documents.

For the year 2001 he was nominated scientific national delegate of the Italian government at the European Commission for the Trust and Confidence area.

From September 2002 to May 2011, Prof. Lioy was President of AssoSecurity, a no-profit organization to foster the security culture in several fields of the information technology.

From September 2007 to December 2009, Prof. Lioy was a member of the PSG (Permanent Stakeholders' Group) of ENISA (the European Network and Information Security Agency of the EU).

In the year 2010 Prof. Lioy was selected as an expert for working at the ENISA "Government Cloud" project that studied possible Government applications of Cloud Computing, investigating privacy and security issues in this area. The results are documented in the public ENISA report "Security and Resilience in Governmental Clouds".

In the year 2012 Prof. Lioy was selected as an expert for working at the ENISA "Consumerization of IT" project that investigated security risks and countermeasures of the BYOD (Bring-Your-Own-Device) IT approach. The results are documented in the public ENISA report "Consumerization of IT: Risk Mitigation Strategies and Good Practices".

In the years 2014-2015 Prof. Lioy participated as technical expert to the works of the eIDAS expert group, drafting the implementing acts of the eIDAS (electronic identification and trust services) EU regulation about electronic identity, electronic signatures and trust services..

Prof. Lioy regularly acts as a reviewer for several security-related conferences and journals, such as the IEEE Transactions on Dependable and Secure Computing (TDSC), IEEE Transactions on Information Forensics and Security (TIFS), IEEE Communications Letters, Elsevier Computer Networks, and Elsevier Computers and Security.

Prof. Lioy was a Guest Editor for the 2012 Special Issue on "Security for Mobile Internet Applications" of the journal Security and Communication Networks (SCN) by John Wiley & Sons.

Publications

This section contains a selection of the publications of Prof. Lioy (most recent first):

Year 2016

- A.Lioy, “Harmonised security across devices”, *Research*eu results magazine*, no. 53, June 2016, pp. 40-41
- C.Basile, D.Canavese, A.Lioy, C.Pitscheider, F.Valenza, “Inter-function anomaly analysis for correct SDN/NFV deployment”, *Int. J. of Network Management*, February 2016, pp. 25-43

Year 2015

- L.Jacquin, A.Lioy, D.R.Lopez, A.L.Shaw, T.Su, “The trust problem in modern network infrastructures”, chapter in the book “*Cyber Security and Privacy*” edited by F.Cleary and M.Felici, Springer, November 2015, pp. 116-127
- D.Berbecaru, A.Lioy, “Exploiting the EU Trusted Service Status List (TSL) for certificate validation in STORK: design, implementation and lessons learnt”, *Software: Practice and Experience*, John Wiley & Sons, Volume 45, Issue 11, November 2015, pp. 1457-1477
- F.Valenza, S.Spinoso, C.Basile, R.Sisto, A.Lioy, “A Formal Model of Network Policy Analysis” *RTSI-2015: Int. Forum on Research and Technologies for Society and Industry*, Torino (Italy), 16-18 September 2015. pp. 516-522
- D.Montero, M.Yannuzzi, A.Shaw, L.Jacquin, A.Pastor, R.Serral-Gracià, A.Lioy, F.Risso, C.Basile, R.Sassu, M.Nemirovsky, F.Ciaccia, M.Georgiades, S.Charalambides, J. Kuusijärvi, F.Bosco, “Virtualized security at the network edge: a user-centric approach”, *IEEE Communications*, Vol. 53, Issue 4, April 2015, pp. 176-186
- R.Bonafiglia, F.Ciaccia, A.Lioy, M.Nemirovsky, F.Risso, T.Su, “Offloading personal security applications to a secure and trusted network node”, *Netsoft-2015: IEEE Conference on Network Softwarization*, London (UK), April 13-17, 2015, 2 pages
- C.Basile, A.Lioy, C.Pitscheider, F.Valenza, M.Vallini, “A novel approach for integrating security policy enforcement with dynamic network virtualization”, *Netsoft-2015: IEEE Conference on Network Softwarization*, London (UK), April 13-17, 2015, 5 pages
- C. Basile, A. Lioy, “Analysis of application-layer filtering policy with application to HTTP”, *IEEE/ACM Transactions on Networking*, Vol. 23, No. 1, February 2015, pp. 28-41
- C.Basile, A.Lioy, C.Pitscheider, S.Zhao, “A formal model of policy reconciliation”, *PDP-2015: EuroMicro Int. Conf. on Parallel, Distributed and network-based Processing*, Turku (Finland), March 4-6, 2015. pp. 587-594

Year 2014

- A.Lioy, A.Pastor, F.Risso, R.Sassu, A.L.Shaw, “Offloading security applications into the network”, *eChallenges 2014*, Belfast (Ireland), October 29-31, 2014, 9 pages
- R.Sassu, G.Ramunno, A.Lioy, “Practical assessment of Biba integrity for TCG-enabled platforms”, *TRUSTCOM'14: 13th IEEE International Conference on Trust, Security and Privacy in Computing and Communications*, Beijing (China), September 24-26, 2014, pp. 495-504
- C.Dalton, A.Lioy, D.Lopez, F.Risso, R.Sassu, “Exploiting the network for securing personal devices”, *CSPF-2014: Cyber Security & Privacy Forum 2014*, Athens (Greece), May 21-22, 2014, pp. 16-27

Year 2013

- D.Berbecaru, M.Casalino, A.Lioy, “FcgiOCSP: a scalable OCSP-based Certificate Validation System exploiting the FastCGI interface”, *Software: Practice and Experience*, John Wiley & Sons, Vol.43, Issue 12, December 2013, pp.1489-1518
- M.Mezzalama, A.Lioy, H.Metwalley, “Anatomia del malware” (in Italian), *Mondo Digitale*, No. 47, September 2013, 20 pages
- L.A.Cutillo, A.Lioy, “Towards Privacy-by-Design Peer-to-Peer Cloud Computing”, TrustBus-2013, Prague (Czech Republic), August 2013, pp. 85-96, vol. 8058 of Lecture Notes in Computer Science (LNCS), Springer, 2013
- C.Basile, D.Canavese, A.Lioy, C.Pitscheider, “Improved Reachability Analysis for Security Management”, *PDP-2013: 21st EuroMicro Int. Conf. on Parallel, Distributed and network-based Processing*, Belfast (UK), February 27 - March 1, 2013, pp. 534-541
- G.Cabiddu, A.Lioy, G.Ramunno, “Building a trusted environment for security applications”, chapter in the book “Theory and Practice of Cryptography Solutions for Secure Information Systems”, edited by Atilla Elçi, Josef Pieprzyk, et al., IGI Global (USA), 2013, pp. 334-360

Year 2012

- L.Marinos (editor), “Consumerization of IT: Risk Mitigation Strategies and Good Practices”, ENISA deliverable 2011-10-18, joint work of 6 experts (including A.Lioy), December 2012, 51 pages, available on-line at <http://www.enisa.europa.eu/activities/risk-management/evolving-threat-environment/COITMitigationStrategiesPublishedVersion.pdf>
- C. Basile, A. Cappadonia, A. Lioy, “Network-level access control policy analysis and transformation”, *IEEE/ACM Transactions on Networking*, Vol. 20, No. 4, August 2012, pp. 985-998

Year 2011

- G. Calandriello, P. Papadimitratos, J. Hubaux, A. Lioy, “On the Performance of Secure Vehicular Communication Systems”, *IEEE Transactions on Dependable and Secure Computing*, Vol. 8, No. 6, November-December 2011, pp. 898-912
- G.Cabiddu, E.Cesena, R.Sassu, D.Vernizzi, G.Ramunno, A. Lioy, “Trusted Platform Agent”, *IEEE Software*, Vol. 28, No. 2, March-April 2011, pp. 35-41
- M. Aime, A. Lioy, P.C. Pomi, “Automatic (re)configuration of IT systems for dependability”, *IEEE Transactions on Service Computing*, Vol. 4, No. 2, February 2011, pp. 110–124
- M. Aime, A. Lioy, P.C. Pomi, M. Vallini, “Security plans for SaaS”, in the book “New Frontiers in Information and Software as Service”, D. Agrawal, K. S. Candan, W.-S. Li (editors), Springer, 2011, pp. 81-111
- D.Catteddu (editor) “Security and Resilience in Governmental Clouds”, ENISA deliverable, joint work of 21 experts (including Prof. A.Lioy), January 2011, 146 pages, available on-line at <http://www.enisa.europa.eu/act/rm/emerging-and-future-risk/deliverables/security-and-resilience-in-governmental-clouds>

Year 2010

- D. Berbecaru, L. Albertalli, A. Lioy, “The ForwardDiffSig scheme for multicast authentication”, *IEEE/ACM Transactions on Networking*, Vol. 18, No. 6, December 2010, pp. 1855-1868
- I. Enrici, M. Ancilli, A. Lioy, “A psychological approach to information technology security”, *HSI-2010: 3rd Int. Conf. on Human System Interactions*, Rzeszów (Poland), May 13-15, 2010, pp. 459-466

- C. Basile, A. Lioy, S. Scozzi, D. Vallini, “Ontology-based Security Policy Translation”, *J. of Information Assurance and Security*, 2010, Vol. 5, No. 1, pp. 437-445
- A. Lioy, G. Ramunno, “Trusted Computing”, in the book “Handbook of Information and Communication Security”, P. Stavroulakis, M. Stamp (editors), Springer, 2010, pp. 697-717
- C. Basile, A. Lioy, M. Vallini, “Towards a Network-Independent Policy Specification”, *PDP-2010: 18th Euromicro Int. Conf. on Parallel, Distributed and Network-Based Computing*, Pisa (Italy), February 17-19, 2010, pp. 649-653

Year 2009

- C. Basile, A. Lioy, S. Scozzi, M. Vallini, “Ontology-based policy translation”, *CISIS'09 - Int. Workshop on Computational Intelligence in Security for Information Systems*, Burgos (Spain), September 23-26, 2009, pp. 117-126
- D. Berbecaru, A. Desai, A. Lioy, “A unified and flexible solution for integrating CRL and OCSP into PKI applications”, *Software: Practice and Experience*, John Wiley & Sons, Vol. 39, Issue 10, July 2009, pp. 891-921
- A. Lioy, G. Ramunno, D. Vernizzi, “Trusted-Computing technologies for the protection of Critical Information Systems”, *J. of Information Assurance and Security*, 2009, Vol. 4, No.5, pp.449-457
- G. Calandriello, A. Lioy, “Efficient and Reliable Pseudonymous Authentication”, in the book “Automotive Informatics and Communicative Systems: Principles in Vehicular Networks and Data Exchange”, edited by H. Guo, Information Science Reference, April 2009, pp. 247-263

Year 2008

- P. G. Scaglioso, C. Basile, A. Lioy, “Modern standard-based access control in network services: XACML in action”, *IJCSNS - International Journal of Computer Science and Network Security*, Vol. 8, No. 12, December 2008, pp. 296-305
- S. Furnell, S. K. Katsikas, A. Lioy (editors), “Trust, Privacy and Security in Digital Business”, *Proc. of the 5th Int. Conf. TrustBus 2008*, Torino (Italy), September 4-5, 2008, vol. 5185 of Lecture Notes in Computer Science (LNCS), Springer, 204 pages
- C. Basile, A. Cappadonia, A. Lioy, “Geometric Interpretation of Policy Specification”, *POLICY 2008: IEEE Int. workshop on Policies for Distributed Systems and Networks*, Palisades (NY, USA), June 2-4, 2008, pp. 78-81
- P. Papadimitratos, G. Calandriello, J.-P. Hubaux, A. Lioy, “Impact of vehicular communication security on transportation safety”, *MOVE 2008: IEEE INFOCOM-2008 workshop on Mobile Networking for Vehicular Environments*, Phoenix (AZ, USA), April 13-18, 2008, pp. 1-6

Year 2007

- C. Basile, A. Cappadonia, A. Lioy, “Algebraic Models to Detect and Solve Policy Conflicts”, *MMM-ACNS 2007 - Fourth Int. Conf. on Mathematical Methods, Models, and Architectures for Computer Network Security*, St. Petersburg (Russia), September 13-15, 2007, pp. 242-247
- G. Calandriello, P. Papadimitratos, J.-P. Hubaux, A. Lioy, “Efficient and robust pseudonymous authentication in VANET”, *VANET'07: 4th ACM Int. Workshop on Vehicular ad-hoc networks*, Montreal (Canada), September 10, 2007, pp. 19-27
- D. Berbecaru, A. Lioy, “On the Robustness of Applications Based on the SSL and TLS Security Protocols”, *EuroPKI 2007: 4th European PKI Workshop: Theory and Practice*, Palma de Mallorca (Spain), June 28-30, 2007, pp. 248-264, vol. 4582 of Lecture Notes in Computer Science (LNCS), Springer, 2007

- A. Atzeni, A. Lioy, “An estimation of attack surface to evaluate network (in)security”, *ICEIS 2007: 9th Int. Conference on Enterprise Information Systems*, Funchal (Portugal), June 12-16, 2007, pp. 493-498
- M.D. Aime, G. Calandriello, A. Lioy, “Dependability in wireless networks: can we rely on WiFi?”, *IEEE Security and Privacy*, vol. 5, no. 1, January/February 2007, pp. 23-29

Year 2006

- A. Atzeni, A. Lioy (Editors), “Public Key Infrastructure - Theory and practice”, *Proc. of EuroPKI-2006, 3rd European PKI workshop*, Torino (Italy), June 19-20, 2006, vol. 4043 of Lecture Notes in Computer Science (LNCS), Springer, 261 pages
- M. Pala, A. Lioy, “Fighting e-mail abuses: the EMPE approach”, *EuroPKI-2006 - 3rd European PKI Workshop: Theory and Practice*, Torino (Italy), June 19-20, 2006, pp.130-144, vol. 4043 of Lecture Notes in Computer Science (LNCS), Springer, 2006
- M.D. Aime, G. Calandriello, A. Lioy, “A wireless distributed intrusion detection system and a new attack model”, *ISCC 2006: 11th IEEE Int. Symposium on Computers and Communications*, Cagliari (Italy), June 26-29, 2006, pp. 35-40
- A. Lioy, M. Marian, N. Moltchanova, M. Pala, “PKI past, present and future”, *International Journal of Information Security*, Springer-Verlag, Vol. 5, No. 1, January 2006, pp. 18-29

Year 2005

- M.D. Aime, A. Lioy, G. Ramunno, “Decentralised access control in 802.11 networks”, *CMS-2005: IFIP Int. Conf. on Communications and Multimedia Security*, Salzburg (Austria), September 19-21, 2005, vol. 3677 of Lecture Notes in Computer Science (LNCS, Springer-Verlag), pp. 180-190
- A. Atzeni, A. Lioy, “Why to adopt a security metric? A little survey”, *QoP-2005: Quality of Protection workshop*, Milano (Italy), September 15, 2005
- M.D. Aime, A. Atzeni, A. Lioy, “The wireless opaque channel to contrast information leakage”, *WoWMoM 2005: IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks*, Taormina (Italy), June 13-16, 2005 pp. 570-575
- M.D. Aime, A. Lioy, “Incremental trust: building trust from past experience”, *WoWMoM 2005: IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks*, Taormina (Italy), June 13-16, 2005 pp. 603-608

Year 2004

- M. Aime, A. Lioy, D. Mazzocchi, “Security of 802.11 wireless networks”, in the book “*Security and privacy in advanced networking technologies*” edited by B.Jerman-Blazic, W.Schneider, T.Klobucar, IOS press - NATO series, August 2004, pp. 51-100, ISBN 1-58603-430-8
- C. Basile, A. Lioy, “Towards an algebraic approach to solve policy conflicts”, *FCS'04: Foundations of Computer Security*, Turku (Finland), July 12-13, 2004, pp. 319-338
- A. Lioy, M. Marian, N. Moltchanova, M. Pala, “The EuroPKI experience”, *1st European Workshop on PKI*, Samos Island (Greece), June 25-26, 2004, vol. 3093 of Lecture Notes in Computer Science (LNCS, Springer-Verlag), pp. 14-27
- D. Berbecaru, C. Derenale, A. Lioy, “Digital certificates and public-key infrastructures”, in the book “*Information Security Policies and Actions in Modern Integrated Systems*”, M.G.Fugini and C.Bellettini editors, IDEA group publishing, 2004, pp. 65-98, ISBN 1-59140-291-3

Year 2003

- A. Lioy, D. Mazzocchi (Editors), “Communications and Multimedia Security - Advanced Techniques for Network and Data Protection”, *Proc. of CMS-2003, 7th IFIP Int. Conf. on Communications and Multimedia Security*, Torino (Italy), October 2-3, 2003, vol. 2828 of Lecture Notes in Computer Science (LNCS, Springer-Verlag), 263 pages, ISBN 3-540-28791-4

Year 2002

- D. Berbecaru, A. Lioy, “Towards simplifying PKI implementation: client-server based validation of public-key certificates”, *ISSPIT-2002: IEEE International Symposium on Signal Processing and Information Technology*, Marrakech (Morocco), Dec. 18-21, 2002, pp. 277-282
- D. Berbecaru, A. Lioy, M. Marian, “Security aspects in standard certificate revocation mechanisms: a case study for OCSP”, *ISCC-2002: 7th IEEE Symposium on Computers and Communications*, Taormina/Giardini Naxos (Italy), July 1-4, 2002, pp. 484-489

Year 2001

- M. Baltatu, A. Lioy, D. Lombardo, D. Mazzocchi, “Towards a policy system for IPsec: issues and an experimental implementation”, *ICONN-2001: IEEE International Conference on Networks 2001*, Bangkok (Thailand), October 10-12, 2001, pp. 146-151
- M. Baltatu, A. Lioy “IP Security”, chapter in the book *Advanced Security Technologies in Networking* edited by B.Jerman-Blazic, W.S.Schneider and T.Klobucar, IOS Press - NATO Series, 2001, pp. 95-108, ISBN 1-58603-156-2

Year 2000

- M. Baltatu, A. Lioy, F. Maino, D. Mazzocchi, “Security issues in control, management and routing protocols”, *Computer Networks journal*, Elsevier, Vol. 34, N. 6, November 2000, pp. 881-894
- D.Berbecaru, A.Lioy, F.Maino, D. Mazzocchi, G. Ramunno, “Towards concrete application of electronic signature”, *AICA 2000 Conference*, Taormina (Italy), September 27-30, 2000, pp. 543-561
- M.Baltatu, A.Lioy, D.Mazzocchi, “Security Policy System: status and perspective”, *ICON'2000: IEEE International Conference on Networks*, Singapore, September 5-8, 2000, pp. 278-284
- A.Corradi, R.Montanari, C.Stefanelli, D.Berbecaru, A.Lioy, F.Maino, “A flexible management framework for certificate status validation”, *SEC'2000: IFIP International Information Security Conference*, Beijing (China), August 21-25, 2000, pp. 481-490
- A.Lioy, F.Maino, M.Marian, D.Mazzocchi, “DNS security”, *TNC-2000: TERENA Networking Conference*, Lisboa (Portugal), May 22-25, 2000

Before year 2000

- M.Baltatu, C.Basile, A.Lioy, F.Maino, A.Mazzeo, N.Mazzocca, D.Mazzocchi, “DIVA-SEC: a secure video on-demand system”, *AICA'99 conference*, Abano Terme (Italy), September 27-28, 1999
- B.Costinescu, D.Dragomirescu, A.Lioy, C.Marinescu, “A component-based infrastructure for building cluster management and monitoring tools”, *PDPTA'99: International Conference on Parallel and Distributed Processing Techniques and Applications*, Las Vegas (NE, USA), June 28 – July 1, 1999
- A.Lioy, F.Maino, “A model for user registration in a PKI and its implementation in the ICE-TEL project”, *AICA'98 conference*, Napoli (Italy), November 18-20, 1998, pp. 367-378

- A.Lioy, F.Maino, “Providing X.509-based user access control to Web servers”, *SEC'98: IFIP International Information Security Conference*, Vienna (Austria), August 29-31, 1998, pp. 61-71
- A.Lioy, “Security aspects of IPv6”, chapter 8 of the book “Internetworking IPv6 with Cisco routers” by S.Gai, *McGraw-Hill*, 1998, ISBN 0070228361, pp.151-166
- A.Lioy, F.Maino, “The ICE-TEL PKI: the first public security infrastructure in Italy”, *CABOTO'98 workshop*, Venezia – Mestre (Italy), February 26-27, 1998
- A.Lioy, F.Maino, M.Mezzalama, “Secure document management and distribution in an open network environment”, *ICICS'97: IACR/IEICE International Conference on Information and Communications Security*, Pechino (China), November 11-13, 1997, pp. 109-117
- C.Fornaro, M.Gavelli, A.Lioy, F.Maino “Esperience in the development of a network security infrastructure based on public-key certificates”, *AICA'97 Conference*, Milano (Italy), September 24-26, 1997, pp. 233-247
- D.A.Galliano, A.Lioy, F.Maino, “Non-intrusive authentication”, *SEC'97: IFIP International Information Security Conference*, Copenhagen (Denmark), May 14-16, 1997, pp. 440-451
- A.Lioy, F.Maino, “Providing security to the building licenses delivering process in the City of Torino”, *JENC8: 8th Joint European Networking Conference*, Edinbrough (Scotland), May 12-15, 1997, pp. 432.1-432.6
- C.Fornaro, A.Lioy, F.Maino, “Security aspects in an university information system”, *NIR-IT'95: Network Information Retrieval in Italy*, Milano (Italy), November 21-23, 1995
- A.Capella, C.Fornaro, A.Lioy, “Security of the networked information systems”, *AICA'95 conference*, Cagliari (Italy), September 27-29, 1995, pp. 339-346
- C.Fornaro, A.Lioy, “LIE - a network tool to track intruder's actions”, *FIRST'95: Forum of Incident Response and Security Teams*, Karlsruhe (Germany), September 18-22, 1995