

Alban Gabillon

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: <http://csysec.univ-pau.fr>

Date of Birth: 20/02/1967

Nationality: French

CURRENT POSITION (since 1st September 2001)

Full Professor in Computer Science

Université de Pau et des Pays de l'Adour, France.

Research Interest: Computer Security

Head of the **Connected System SECurity (CSySEC)** Research Group.

Laboratoire Informatique de l'Université de Pau et des Pays de l'Adour (LIUPPA).

<http://csysec.univ-pau.fr>

Co-president of the French working group on Security in Information Systems

<http://csysec.univ-pau.fr/gdrssi/>

Holder of the French Research Grant: *Prime d'Encadrement Doctoral et de Recherche (PEDR)*

PREVIOUS EMPLOYMENTS

- 1998-2001: *Maître de Conférences* (equivalent to Associate Professor). Université de Toulon, France.
- 1995-1998: Assistant Professor. Eastern Mediterranean University. North Cyprus.

DIPLOMAS

- Habilitation à Diriger les Recherches. 18th January 2000. Université de Toulon.
- PhD in Computer Science. 29th June 1995. École Nationale Supérieure de l'Aéronautique et de l'Espace (Sup'Aéro). Graduated with the Highest Distinction: *Mention Très Honorable avec les Félicitations du Jury*.

TEACHING EXPERIENCE

Since September 1995, the date that I started teaching as an Assistant Professor at Eastern Mediterranean University in Northern Cyprus, I have given the following courses:

Spring School on Computer Security, Marseille, France (2005)

- XML Security (see <http://www.cmi.univ-mrs.fr/~secur05>)

Université de Pau, France (2001-2006)

- Database Management Systems (undergraduate level)
- Introduction to Programming (undergraduate level)
- Networks (TCP/IP) (undergraduate level)
- Computer Security (graduate level)

Egee University, Turkey (2003)

- Lecturer for the Workshop on Database Security organised by the *Institut Aéronautique et Spatial* for the University of Izmir.

Université de Toulon, France (1998-2001)

- Database Management Systems (undergraduate level)
- Data Structures (undergraduate level)
- Networks (TCP/IP) (undergraduate level)
- Computer Security (graduate level)

Eastern Mediterranean University, Cyprus (1995-1998)

- Database Management Systems (undergraduate level)
- Data Structures (undergraduate level)
- Files Structures (undergraduate level)
- Operating Systems (undergraduate level)
- Database Theory (graduate level)

CURRENT RESEARCH PROJECTS

Three Projects *ACI Sécurité Informatique* funded by the French Ministry of Research (<http://acisi.loria.fr>):

CASC (Contrôles d'Accès Sécurisés à des données Confidentielles)

ACI sécurité Informatique 2003-2006

<http://www-smis.inria.fr/~bouganim/CASC/>

http://csysecur.univ-pau.fr/article.php3?id_article=7

CHRONOS (CHRONOgraphie Sécurisée)

ACI sécurité Informatique 2003-2006

<http://extranet.iaai.fr/enseignement-recherche/recherche/chronos/>

http://csysecur.univ-pau.fr/article.php3?id_article=10

METROSEC (METROlogy for SECurity and quality of service)

ACI sécurité Informatique 2004-2007

<http://www.laas.fr/~owe/METROSEC/>

http://csysecur.univ-pau.fr/article.php3?id_article=11

CURRENT RESEARCH FUNDINGS

Fundings Received

- METROSEC (2004-2007) : 35 000 €
- CASC (2003-2006) : 27 000 €
- CHRONOS (2003-2006) : 16 200 €
- LIUPPA (2006) : 10 000 €

PhD Scholarship

- *Conseil Général des Landes* grants one PhD scholarship per year for a student under my supervision. Each scholarship is for three years.

PHD SUPERVISION

Le Duc Phong	Beginning : 2006	End : 2009
Vincent Lalannes	Beginning : 2006	End : 2009
Julien Aussibal	Beginning : 2005	End : 2008
Majirus Fansi	Beginning : 2004	End : 2007
Kaouter Blibech	Beginning : 2003	End : June 26, 2006

PHD THESIS COMMITTEES

Carlos Aguilar Melchor	July 4, 2006	“Rapporteur”
Kaouter Blibech	June 26, 2006	Research Supervisor
François Dang Ngoc	February 15, 2006	“Rapporteur”
Emmanuel Bruno	December 20, 2001	President

CONFERENCE ORGANIZATION & COMMITTEES

Organizer and Program Chair of the ACM workshop on Secure Web Services 2006, George Mason University, Fairfax, Virginia, USA.

<http://sws06.univ-pau.fr>

Organizer and Program Chair of the First Joint Conference on Security in Network Architectures (SAR) and Security of Information Systems (SSI), Seignosse, France.

<http://www.sarssi.univ-pau.fr/>

Organizer and Program Chair of the second workshop on Security in Information Systems (SSI 2005), Grenoble, France

<http://inforsid2005.imag.fr/SSI.htm>

Organizer and Program Chair of the first workshop on Security in Information Systems (SSI 2004), Biarritz, France

<http://inforsid2004.univ-pau.fr/programmeSSI04.htm>

Member of the Steering Committee of the Conference on Security in Network Architectures (SAR) and Security of Information Systems (SSI)

Session chair at the The 2006 IEEE International Conference on Signal-Image Technology & Internet-based Systems, (SITIS 2006) , Hammamet, Tunisia.

Session chair at the The 2005 IEEE International Conference on Signal-Image Technology & Internet-based Systems (SITIS 2005), Cameroon.

Program Committee member of several international conferences on computer security

Member of IFIP Working Group 11.3 on Database and Application Security

SOFTWARE

Online Secure Timestamping System (Java + Web Technology)

<http://chronos.univ-pau.fr>.

Secure XML Database Simulator (Prolog)

Can be downloaded from <http://www.univ-pau.fr/~gabillon/xmlsecu>.

Online Secure XML Database (XSLT + Web Technology)

<http://liuppamdm.univ-pau.fr/proto/>

PUBLICATIONS

International Journal Papers

A. Gabillon, L. Gallon *Availability of ARINC 629 Data Bus*. To be published in Journal of Networks (JNW- ISSN 1796-2056)

A. Gabillon. *A logical formalization of a secure XML database*. To be published in Computer Science and System Engineering Journal. ISSN 0267-6192

A. Gabillon and M. Fansi. *A New Persistent Labelling Scheme for XML*. In Journal of Digital Information Management. Vol 4 n° 2, June 2006. ISSN 0972 7272

A. Bonnacaze, P. Liardet, A. Gabillon and K. Blibech *Time-Stamping Schemes: A Distributed Point of View*. In Annals of Telecommunications. Vol 61 n° 5/6. May/June 2006. ISSN 0003-4347.

F. Cuppens, A. Gabillon. *Cover Story Management*. Data and Knowledge Engineering, Vol 37/2, 2001, pp 177-201. Elsevier. ISSN: 0169-023X

F. Cuppens, A. Gabillon. *Logical Foundations of Multilevel Databases*. Data and Knowledge Engineering, vol. 29, 1999, pp. 259-291. Elsevier. ISSN: 0169-023X

N. Boulahia-Cuppens, F. Cuppens, A. Gabillon, K. Yazdaman. *Virtual View Model to Design a Secure Object-Oriented Database*. Computers & Security, Volume 14, Issue 1, 1995, Page 31. Harold Joseph Highland. ISSN: 0167-4048

Encyclopedia

A. Gabillon. *Multilevel Databases*. Encyclopedia of Database Technologies and Applications. IDEA Group Reference. Edited By: Laura C. Rivero, Jorge Horacio Doorn, Viviana E. Ferraggine, July 2005. ISBN 1-59140-560-2.

International Refereed Conferences and Workshops

K. Blibech, A. Gabillon. *A New Digital Notary System*. Proc. of the conference on Signal and Image Technology and Internet Based Systems. December 2006, Hammamet Tunisia

K. Blibech, A. Gabillon. *New Timestamping Scheme Based on Skip Lists*. . Proc of the Applied Cryptography and Information Security (ACIS) workshop held in conjunction with the Computational Science and its Applications (ICCSA 2006) conference. Glasgow May 2006. LNCS 2982. ISBN 3-540-34075-0.

A. Gabillon, L.Gallon. *Availability Constraints for Avionic DataBuses*. Proc of the First International Conference on Availability, Reliability and Security. Vienna, April 2006. IEEE Computer Society. ISBN 0-7695-2567-9.

A. Gabillon, M Fansi. *A Persistent Labelling Scheme for XML and Tree Databases*. Proc. of the IEEE conference on Signal and Image Technology and Internet Based Systems. November 2005, Yaoundé Cameroon. ISBN 2-9525435-0.

A. Bonnacaze et P. Liardet et A. Gabillon et K. Blibech *A Distributed Time Stamping Scheme* Proc. of the IEEE conference on Signal and Image Technology and Internet Based Systems. November 2005, Yaoundé Cameroon. ISBN 2-9525435-0.

K. Blibech & A. Gabillon. *Chronos: An Authenticated Dictionary based on Skip Lists for Timestamping*. Proc. of 12th ACM Conference on Computer Security (Workshop Secure Web Services). George Mason University, Fairfax, VA, USA. November 2005. ISBN 1-58113-969-1.

A. Gabillon. *A Formal Access Control Model for XML Databases*. Proc. of the second VLDB Workshop on Secure Data Management. Trondheim, Norway. September 2005. LNCS 3676. ISBN 3-540-28798-1.

A. Gabillon. *An Authorisation Model for XML DataBases*. Proc. of the 11th ACM Conference on Computer Security (Workshop Secure Web Services). George Mason University, Fairfax, VA, USA. October 2004

A. Gabillon, L. Gallon. *Availability Model for Avionic Databases*. Proceedings of the workshop on issues in security and petri nets (WISP). Eindhoven, The Netherlands, 23 June 2003

A. Gabillon, M. Munier, JJ. Bascou, L. Gallon, E. Bruno. *An Access Control Model for Tree Data Structure*. Information Security Conference. Sao Paulo, Brasil. October 2002. ISBN 3-540-44270-7

A. Gabillon, E. Bruno. *Regulating Access to XML documents*. Fifteenth Annual IFIP WG 11.3 Working Conference on Database Security. Niagara on the Lake, Ontario, Canada July 15-18, 2001. ISBN 1-4020-7041-1

A. Gabillon, J. Byun. *A Two-level Time-Stamping System*. In Trusted Information. The New Decade Challenge. Kluwer Academic Publishers. Proc. of the sixteenth International Conference on Information Security. IFIP/SEC2001. Paris, June 2001. ISBN 0-306-46998-7

A. Gabillon, E. Bruno. *A Filtering Model for XML documents*. WWW10 Conference Workshop on Information Filtering. Hong Kong, May 2001.

F. Cuppens, A. Gabillon. *Rules for Building Multilevel Object-Oriented Databases*. 5th European Symposium on Research In Computer Security (ESORICS98). Louvain-la-Neuve, Belgium. Lecture Notes in Computer Sciences. Springer Verlag, 1998. ISBN: 3540650040.

F. Cuppens, A. Gabillon. *Design of Multilevel Object-Oriented Databases*. Proc. of the XII International Symposium on Computer and Information Sciences (ISCIS). Turkey. October 1997.

F. Cuppens, A. Gabillon. *A logical Approach To Model A Multilevel Object-Oriented Database*. 10th IFIP 11.3 conference on Database Security. Como, Italy. Database Security, X: Status and Prospects. Pierangela Samarati, Ravi S. Sandhu (eds.), Chapman & Hall, 1997. ISBN 0-412-80820-X.

F. Cuppens, A. Gabillon. *A Query Language For a Multilevel Object-Oriented Database*. . Proc. of the XI International Symposium on Computer and Information Sciences (ISCIS). Antalya, Turkey. November 1996.

F. Cuppens, A. Gabillon. *Modeling a Multilevel Database with Temporal Downgrading Functionalities*. 9th IFIP 11.3 conference on Database Security. Rensselaerville, USA. Database Security, IX: Status and Prospects. David L. Spooner, Steven A. Demurjian, John E. Dobson (eds.), Chapman & Hall, 1996. ISBN 0-412-72920-2.

N. and F. Cuppens, A. Gabillon, K. Yazdanian. "*Virtual View Model to Design A Secure Object-Oriented DataBase*". Proc. of the 17th National Computer Security Conference (NCSC). Baltimore, USA 1994.

N and F. Cuppens, A. Gabillon, K. Yazdanian. "*Decomposition of Multilevel Objects in an Object-Oriented DataBase*". Third European Symposium on Research In Computer Security (ESORICS94). Brighton, UK. Gollmann, D., (Ed.). Lecture Notes in Computer Sciences. Springer Verlag, 1994. ISBN: 3-540-58618-0.

N. and F. Cuppens, A. Gabillon, K. Yazdanian. "*Techniques to Handle MultiLevel Objects in Secure Object-Oriented DataBases*". Proc. of the OOPSLA-93 Workshop on "Security for Object-Oriented Systems". Washington, USA 1993.

N. and F. Cuppens, A. Gabillon, K. Yazdanian. "*MultiView Model for Multilevel Object-Oriented DataBases*". 9th Annual Computer Security Applications Conference. Orlando, USA 1993. IEEE Computer Society. ISBN: 0-818-64330-7.

Invited Speaker

A. Gabillon. *Modèles de Contrôles d'Accès, Application à XML*. Inforsid 2003, 3-6 juin 2003, Nancy.

National Journal Paper

K. Blibech, A. Gabillon, A. Bonnacaze. *Etude des Systèmes d'Horodatage*. to appear in *Technique et Science Informatiques (TSI)*.

F. Cuppens, A. Gabillon. *A Query Language For a Multilevel Object-Oriented Database*. *Turkish Journal of Electrical Engineering & Computer*. Elektrik vol 5, number 2, 1997. TÜBITAK.

National Refereed Conferences

Kaouther Blibech, Alban Gabillon. *A New Timestamping System*. Proc of the conference on security in network architecture and information systems. June 2006, Seignosse, France.

L.Gallon, A. Gabillon. *Analyse du protocole de bus embarqué avionique. ARINC 629 BP*. Proc of the 6ème conférence sur la modélisation et la simulation (MOSIM). Rabat, April 2006.

A. Gabillon *A Secure XML Database*. SAR 2005. 4th Conference on Security and Network Architectures. June 06-10, 2005. Batz sur Mer France.

A. Bonnacaze et P. Liardet et A. Gabillon et K. Blibech *A Distributed Time Stamping Scheme* SAR 2005. 4th Conference on Security and Network Architectures. June 06-10, 2005. Batz sur Mer France.

Kaouther Blibech, Alban Gabillon. *Dictionnaires authentifiés et skip listes* Actes du 2eme atelier sur la Sécurité des Systèmes d'Information (SSI'05). Inforsid Grenoble. 24 mai 2005.France.

A. Gabillon, E. Bruno. *Contrôles d'accès pour documents XML*. BDA'2001. Dix-septième Journées Bases de Données Avancées. 29 octobre - 2 novembre 2001. Agadir, Maroc.

F. Cuppens, A. Gabillon. *Formalisation de la confidentialité dans une base de données à objets*. Actes des 12^{ème} journées Bases de Données Avancées (BDA). Cassis, France. 1996.