CURRICULUM-VITAE

MADELAINE Eric

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Born 29 Juin 1958, Caen (France). Married, 3 children.

Diplomas :

- 1980 : Ingenier from Ecole Polytechnique de Paris
- 1981 : DEA d'Informatique Théorique, Université de Paris VII
- 1983 : PhD in Theoretical Computer Science, Université de Paris VII

Professional Activities :

- **Since jan 2001 :** INRIA Sophia-Antipolis, Oasis team. Development of research activities on "Model-checking methods for proving Java and Javacard applications properties"
- **From 1996 to december 2000 :** Management of Computer system Resources, INRIA Sophia-Antipolis
- **From 1983 to 1996 :** Full-time Researcher. MEIJE team (Parallelism, synchronisation and real-time) at INRIA Sophia-Antipolis.

  Member of programm committee of the 3rd Lotosphere Workshop and Seminar, Pise, 1992

  Member of programm committee of TACAS workshop 96
- **From jan. to sep. 1992 :** Associate Researcher, North Carolina State University, Raleigh (USA).

  European ESPRIT project LOTOSPHERE (89 → 92).

  European ESPRIT Basic Research Action CONCUR (92 → 95) : Member of *Project Coordination Committee* of CONCUR. "Task Manager" of task 3.3.2: "Comparison of tools".
- **PhD direction :** Valérie Roy (U. Nice 1990), Monica Lara de Souza (U. Nice 1995), Rabéa Boulifa (U. Nice 2001).

Publications :

1) E. Madelaine, *"Système d'aide à la preuve de compilateurs"*, thèse de $3^{\text{ième}}$cycle, Université de Paris VII, 1983

2) E. Madelaine, "Un système d'aide à la preuve de compilateurs", in *6th International Symposium on Programming*, Toulouse, LNCS 167, pp191-205, April 84

3) E. Madelaine, R. de Simone *"ECRINS: Un laboratoire de preuve pour les calculs de processus"* dans les actes du $2^{\text{ième}}$colloque C^3, Angoulème, A. Arnold Ed., Mai 1987

4) E. Madelaine, D. Vergamini, *"AUTO, a verification tool for distributed systems using reduction of automata"*, in proceedings of *FORTE'89 conference*, Vancouver, North-holland, 1989

5) E. Madelaine, D. Vergamini, *"Finiteness Conditions and Structural Construction of Automata for all Process Algebras"* Proc. of the 2^{nd} Workshop on Computed Aided Verification, Princeton, New-Jersey, June 1990

6) E. Madelaine, D. Vergamini, *"Tools for Process Algebras"*, in proceedings of the $4\ th$ International Conference on Formal Description Techniques, *FORTE'91 conference*, North-holland, Sydney, 1991

7) E. Madelaine, D. Vergamini, *"Specification and Verification of a Sliding Window Protocol in LOTOS"*, in proceedings of *FORTE'91 conference*, North-holland, Sydney, 1991

8) S. Gnesi, E. Madelaine, G. Ristori, *"An Exercise in Protocol Verification"*, 3^{rd} Lotosphere Workshop and Seminar, Pise, 1992

9) E. Madelaine, *Verification tools from the CONCUR project*, in EATCS Bulletin 47, 1992

10) R. Cleaveland, E. Madelaine, S. Sims, *"A front-end generator for verification tools"*, 1^{st} International Workshop on Tools and Algorithms for the Construction and Analysis of Systems, TACAS'95, LNCS 1019. Et Rapport de Recherche INRIA RR2612, Juillet 1995

11) R. Boulifa, E. Madelaine. Preuve de propriétés de comportement de programmes ProActive Research Report RR-4460, INRIA, may 2002.

12) R. Boulifa and E. Madelaine. Finite model generation for distributed java programs. In *Workshop on Model-Checking for Dependable Software-Intensive Systems*, Conference on Dependable Systems and Networks, San-Francisco, june 2003. North-Holland.

Softwares

AUTO: A Verification toolfor distributed systems, with D. Vergamini, INRIA, 1985-1991

ECRINS: A proof tool for process algebras, with G. Doumenc, H. Afifi, INRIA 1985-1991

AUTOGRAPH: Edition and visualisation of graphs and synchronised systems, with V. Roy, INRIA and ENSMP 1988-1991

LITE: Lotos Integrated Tool Environment, INRIA and Esprit project Lotosphere, 1989-1992

PAC: A front-end generator for verification tools, with S. Sims and R. Cleaveland, INRIA and North-Carolina State University, 1992-1995

Hobbies : Ski, Hiking, Caving.