

Curriculum Vitae: H el ene Kirchner

Birth : 25 September 1952, FRANCE

Married, 4 children.

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Education

1985 : Th ese d'Etat in Computer Science, University of Nancy 1.

1982 : Th ese de 3eme cycle in Computer Science, University of Nancy 1.

1980 : Diplome d'Etudes Approfondies (DEA) d'Informatique, University of Nancy 1.

1979 : Maitrise d'Informatique, University of Strasbourg

1977 : CAPES de Math ematiques

1975 : Maitrise de Math ematiques, University of Paris 6.

Employment and responsibilities

From 1975 to 1979, Professor of mathematics at Douala (Cameroun) and Strasbourg (France).

From 1982 to 1995, Charg ee de Recherche au CNRS.

In 1985-86, detached at Stanford University for a Postdoctoral fellowship from CSLI (Center for the Study of Language and Information)

From october 1995 to january 2007, Directeur de Recherche (DR2 then DR1 in 2003) au CNRS.

Laboratory: CRIN URA 262, then LORIA UMR 7503 (Nancy)

Since february 2007, Seconded to INRIA.

2007- : Deputy scientific director at INRIA.

2001-06 : Director of LORIA and INRIA Lorraine.

2000-06 : Scientific leader of the P ole de Recherche Scientifique et Technologique Lorrain "Intelligence Logicielle"

1997-00 : Scientific leader of the Protheo project team of the UMR LORIA, common to CNRS, INRIA, Universities of Nancy.

1996-97 : Member of the Scientific Committee of CRIN,

1995-97 : Member of the Project Committee of INRIA-Lorraine.

1992-97 : Co-leader with Claude Kirchner of the Protheo project at CRIN and INRIA-Lorraine.

1982-92 : Member of the Eureka group.

1986-88 : Responsible of external relations of CRIN.

Research Themas

- Computation and deduction: rewrite systems and applications, term and graph rewriting, constraint solving, combination of solvers or decision procedures, theorem proving with constraints, strategies, deduction modulo.
- Programming languages: algebraic and logic programming, constraint logic programming, rule-based programming, compilation, bio-chemical models.
- Formal specifications, software validation, security: algebraic specifications, rewriting logic, proofs of program properties, security policies.

Publications

2 theses, editor of 8 LNCS, LNAI, ENTCS proceedings,
6 special issues of the journals *Theoretical Computer Science*, *Electronic Notes in Theoretical Computer Science*, *Annals of Mathematics and Artificial Intelligence*, *Applicable Algebra in Engineering, Communication and Computation*.
20 articles in journals (*ACM Transactions of Computational Logic*, *SIAM Journal of Computing*, *Journal of Functional Programming*, *Theoretical Computer Science*, *Journal of Logic Programming*, *Journal of Symbolic Computations*, *Computer Journal*, *Science of Computer Programming*, *Revue de l'Intelligence Artificielle*, *RAIRO Informatique théorique*),
7 book chapters (MIT Press, Kluwer, AMS, IFIP and LNCS),
more than 60 publications in international conferences,
various publications in international workshops.

Software

Participation in the design of:

Reveur-3 and Narrower, extensions of the rewrite laboratory REVE (Nancy and MIT),
OBJ-3, a logic programming language based on rewriting techniques (SRI international),
UNIF, a library of constraint solvers (Nancy),
ELAN, a rule-based environment for specifying and prototyping constraint solvers, theorem provers, deduction systems, and for experimenting their combination (Nancy),
GasEl, a generator of kinetics reactions mechanisms in chemistry (Nancy),
CARIBOO, a termination proof tool for rule-based programming languages (Nancy),
TOM, an environment to integrate pattern-matching, rewrite rules and strategies by compilation into different programming languages like C and Java (Nancy).

Teaching in Computer Science

1983-00 : Lecturer at the DEA d'Informatique at the University of Nancy.
1980-82 : Teaching assistant at the University of Nancy.
Students: 12 DEA students, 13 Phd students since 1990.

Invited talks About 20 invited talks in workshops and conferences, including AICA, ASIAN, CADE, WLRA, AMiLP, JFPL, Maths and AI, ALP.

Editorial boards and Program Committees

- Member of the Editorial board of the journal *Annals of Mathematics and Artificial Intelligence*, *Computing and Informatics*, *Logical Methods in Computer Science (LMCS)*.
- Guest Editor for special issues of the journals *Annals of Mathematics and Artificial Intelligence*, *Applicable Algebra in Engineering, Communication and Computation*, *Theoretical Computer Science*.

- Participation to program committees of RTA, IJCAR, LPAR, PPDP, ASIAN, CSL, IJCAI, AMAST, FROCO, CP, FM-TOOLS, Calculemus, WRLA, CADE, CAAP, MFCS, JICSLP, Symposium on Artificial Intelligence and Mathematics, JFPL, WADT, WRS, CCL, ESOP, ALP.
- Participation to Steering Committees of the conferences CADE, PPDP and RTA.

Projects and contracts

Participation to national projects, european projects CCL et COMPASS (Esprit BRA), SOL et CONSOLE (CHM), COMPULOG (network of excellence), MIND (european consortium), ERCIM working groups, CNRS-NSF contracts.

Member of IFIP working group WG 1.6 (Term Rewriting).

Expertise

- Member of 2 ANR Comités de Pilotage.
- Member of Dagstuhl Scientific Directorate (2002-2007).
- Member of Comité National du CNRS (section 07) from september 2000 to september 2001.
- Member of selection committee of ANR (2007), of french network RNTL (2000-2004).
- Member of recruitment committees of universities Nancy 1, Nancy 2, INPL, ULP Strasbourg.
- Member of Evaluation Committees of french laboratories (LRI, LSV LIFC, Leibniz, LAAS, LINA) and of the Institut for Computer Science at University of Munich.
- Expert for projects of european programmes (ERCIM, PROCOPE...)
- Participation to about 50 PhD committees and Habilitation committees.

Distinctions

- 2007 : Chevalier de l'Ordre National du Mérite
- 1998 : Best Paper of EAPLS for the conferences PLILP-ALP-SAS
- 1987 : CNRS silver medal to the Eureka group.

Others

Member of AAR(Association of Automated Reasoning), EAPLS (European Association for Programming Languages and Systems), and EATCS (European Association in Theoretical Computer Science).

Member of the french association SPECIF of computer scientists.