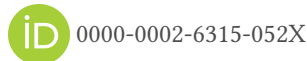




Curriculum Vitæ

Didier Verna
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Distinctions

Reviewers Choice Award 2018 from the Art, Science and Engineering of Programming Journal
(Verna, 2018a, n° 3)

Keynote Speaker at ACCU 2014
(Verna, 2014, n° 51)

Best Paper Award 2006 from the European Lisp Workshop
(Verna, 2006a, n° 43)

Currently

Position: Professor of Computer Science with Habilitation to Direct Research (HDR)
Teaching Establishment: École pour l'Informatique et les Techniques Avancées (EPITA)
Research Establishment: EPITA Research Lab (LRE)

Career

2024 Qualification for Full Professorship / Tenure-Track Positions (France)
French National Council of Universities (CNU)

Section: 27 — Computer Science

Jury: Olga Kouchnarenko, Céline Rouveirol

2020 Habilitation to Direct Research (HDR), EDITE of Paris, Sorbonne University, EPITA/LRE

Title: (dynamic (programming paradigms)) ;; *performance and expressivity*

Jury: Manuel Serrano, INRIA, Sophia Antipolis, France (reviewer)
Robert Strandh, Bordeaux University, France (reviewer)
Nicolas Neuß, FAU, Erlangen-Nürnberg, Germany (reviewer)
Marco Antoniotti, Milan-Bicocca University, Italy (examiner)
Ralf Möller, Lübeck University, Germany (examiner)
Gérard Assayag, IRCAM, Paris, France (examiner).

2000 Ph.D. from École Nationale Supérieure des Télécommunications de Paris (ENST)

Title: Virtual Reality and Tele-Operation: Assisting the Operator with Cognitive Modelling of his Intentions

Jury: Philippe Coiffet, Jean-François Richard (reviewers)
Jean-Paul Papin (examiner)
Alain Grumbach (Supervisor)

1994 Engineering Degree from ENST, specialization Computer Science and Networks

1988 French Scientific "Baccalauréat" (C)

Professional Experience

2014–... Member of EDITE of Paris (Computer Science, Telecommunications, and Electronics Doctoral School))
2005–2018 Adjunct lecturer at ENST, ENSTA, UPMC, French National “Beaux Arts” School, and IONIS STM
Cf. details in the “Teaching Activities” section
1999–... Full Professor of Computer Science at EPITA

Note

I work part-time (initially 3/5th, more recently 4/5th). The following numerical data is expressed in absolute value. Teaching hours are accompanied with a full-time equivalent, but the rest (publication density, ecosystem participation, etc.) is to be evaluated relatively to my part-time activity.

1 Administrative Responsibilities

2020–... National coordinator for fundamental computer science lectures, *cf.* section “Teaching Activities”
2009–... Involvement in the recruiting process of EPITA students (open days, forums, interviews, etc.)
About 90h / year
2008–... Co-founder and president of the European Lisp Symposium (ELS) Steering Committee
2008 Founder and first organizer of the Performance and Genericity Seminar of the EPITA Research Lab (LRE)

2 Teaching Activities

I am the designer of all the lectures I have been giving since 1999. All course material is publicly available on the [teaching page](#)¹ of my scientific website, including archived former lectures.

2.1 Currently at EPITA

The lectures below are given to more than 600 3rd year undergraduate students every year. I am the national coordinator for these lectures: I design them and give them myself at the Parisian campus (around 400 students in 3 groups) and I supervise teams of 4 to 6 other lecturers who give them, with my course material, at the four other campuses in France: Lyon, Rennes, Strasbourg, and Toulouse.

In addition to that, there is also a lot of student monitoring and coaching on various projects. These activities vary from year to year so there are not detailed below, but they amount to tens of hours of additional pedagogical activities every year.

In Brief

- National lecture coordinator
- 600+ undergraduate students
- 116h lectures + 42h lab. sess. = 158h/year
⇒ Full time equivalent = 200h/year

Formerly adjunct lecturer at ENST, ENSTA, UPMC, and the French National “Beaux Arts” school.

Title		Lectures	Lab. sessions	Since
IGPP	General Introduction to Programming Paradigms	2h		2016
AOP 1	Classical Object-Oriented Approach to Programming	12h	3 (2h) = 6h	2016
AFP	Functional Approaches to Programming	12h	4 (2h) = 8h	2008
AOP 2	Advanced Object-Oriented Approach to Programming	12h		2017
TYP0	Typography and Numerical Typesetting	12h		2023

The workload is expressed as hours per student

2.1.1 Syllabus

IGPP – General Introduction to Programming Paradigms This is a general introduction to the concept of “programming paradigm”, serving as a preamble to the following three subsequent courses: AOP 1, AOP 2, and AFP. We discuss the birth of computer science, the emergence of the concept of “paradigm” in the historical context of imperative and procedural programming, and the Von Neumann architecture. We also address the linguistic aspects of that notion (expressivity, tight link between language and thought, etc.).

¹<https://www.didierverna.net/lectures/>

AOP 1 – Classical Object-Oriented Approach to Programming This course is about the classical (industrial) object-oriented approach. This is notably the approach of the Java and C++ languages, which are both used for illustration purposes. The characteristics of this approach are the concepts of “class” for static information structuring, “message passing” (single dispatch) for dynamic behavior modelling, all of this in the general context of statically typed languages.

We detail the historical context in which the paradigm was born, its evolution and development, as well as the fundamental concepts on which it is built. We tackle the general modelling principles of this approach, and we also exhibit its limitations, putting emphasis on the tight relationship with the underlying programming languages characteristics.

00. Introduction Reminder on imperative and procedural programming. Genesis, history, evolution and development of the object-oriented approach. Current state of affairs.

01. Classes and Objects Class-based modelling. Concept of “object”, instantiation, destruction (vs. garbage-collected languages). UML diagrams. Information scope (instance or class-wide attributes and methods) and accessibility (public or private attributes and methods).

02. Static Structuring Relations between classes: aggregation, composition, inheritance. Inheritance specificities: sub-classing vs. sub-typing, class hierarchies (simple and multiple inheritance), abstract and final classes, information accessibility (protected attributes and methods). Problems related to inheritance: inheritance vs. instantiation, inheritance vs. aggregation, ambivalence, diamond inheritance, public and private inheritance.

03. Dynamic Behavior Static polymorphism: overloading, masking. Dynamic polymorphism: overriding (virtual methods). Abstract methods. Interfaces vs. multiple inheritance. Limitations of the pseudo-equivalence sub-class \Leftrightarrow sub-type: covariance, contravariance, Liskov substitution principle.

AFP – Functional Approaches to Programming The functional programming paradigm is very ancient, grounded in solid theoretical foundations, yet much less popular than the object-oriented one, although it has gained momentum in the past two decades. This course presents the functional programming paradigm in the broader sense, that is, not limited to the purely functional version. For illustration purposes, we use two languages in parallel: Lisp (the father of the paradigm) and Haskell (a more recent one). Both of these languages are functional, yet completely different in practically every aspect. This is precisely what makes their juxtaposition interesting.

We study the historical context in which the paradigm was born, the applicative principles it offers (primarily higher order functions), and the different language contexts in which this paradigm can be integrated: static vs. dynamic typing, pure or impure (with or without side effects), and with applicative or normal order evaluation.

00. Introduction History, evolution, and development of the paradigm: Lisp and the lambda-calculus, other languages. Comparison with imperative programming. Characteristics of the functional approach: higher order, pure or impure functional programming (with or without side effects), evaluation schemes (normal or applicative order).

01. Lisp and Haskell Differences tutorial: syntactic elements, concept of “expression” and “evaluation”, interactivity. Dynamic and static typing. Conditionals, arithmetics, lists. Homoiconicity, reflexivity, meta-programming. Final comparison: 4 traits of the functional approach on the Newton-Raphson example.

02. Higher Order Reminders and generalities: definition, naming, assignment, locality. Anonymous functions. Functional arguments and design patterns: mapping, filtering, folding (reduction). Functional return values and design patterns: composition, operator cut, partial application. Functional objects: functional data structures and how they relate to the object-oriented paradigm.

04. Evaluation and Scoping Evaluation schemes: normal and applicative orders, consequences on the languages semantics. Lexical and dynamic scoping, block structure, locality, lexical closures, hygiene, name capture and name clash.

AOP 2 – Advanced Object-Oriented Approach to Programming This course is about an advanced, alternative approach to object orientation as described in AOP 1. Although still based on the concept of “class”, this approach features a number of distinctive traits, in particular: dynamic typing, multiple dispatch, and reflexivity through a meta-object protocol. We aim to demonstrate that there is no single view on object orientation (not even on the class-based version), but also that the classical approach can be seen as a subset of this more general, hence, more expressive one.

01. CLOS – the Common Lisp Object System Introduction: history, distinctive traits. Classes and objects, instantiation, information scope and accessibility. Class – type integration. Inheritance: reminders and distinctive traits. Polymorphism: reminders, generic functions and methods. Covariance, contravariance, and multiple dispatch (multi-methods).

02. Advanced CLOS Meta-object protocols: method combinations, instantiation, eql-specializers. Meta-classes and applications: abstract, final, singleton, and counting classes. Reflexivity and application to the “circle-ellipse” problem.

- 03. Case Study: Binary Methods** Comparison with the classical approach: covariance, contravariance. Resolution with the dynamic approach and multiple dispatch. User-level concept validation: introspection and meta-classes. Implementer-level concept validation: implementing an extension to the object layer.
- 04. Case Study: Design Patterns (the Visitor)** Introduction and history of design patterns. The visitor example in C++. Naive reimplementation in Lisp. Deconstruction of the classical approach's idioms. Exhibition of traits that are functional rather than object-oriented. Extension to stateful visitors.

TYPO – Typography and Digital Typesetting This lecture is an introduction to the world of typography and digital typesetting, that is, the art of putting mostly textual documents into shape, and its history. Our goal is to provide a very broad view of the discipline, ranging from the scientific and technical, to the historical and esthetics angles. In particular, we emphasize on the relations between the beauty and the readability of text, the different typographical styles and usages, the tools allowing to compose documents of very high quality, and the underlying technical and algorithmic challenges.

- 01. History of Writing** Proto-writing and writing systems: non-alphabetical and alphabetical, taxonomy (logograms, phonograms). Writing media: volumen and rotulus, codex, book, manuscript vs. printed, contemporary media (physical and digital).
- 02. History of Printing** Prehistory: stamping, xylography, bloc printing. History: mobile characters in the far-east and in Europe. Press: flat-bed, cylindrical, rotary. Linotype, monotype, lumitype.
- 03. History of Fonts** History: antique (medieval and humanistic influences, birth of roman), transition (modern roman), contemporary (slab-serif, sans-serif, “art nouveau”). Taxonomy: classifications, vox atypi. Anatomy of a character, ligatures, kerns.
- 04. The Digital Era** Introduction: pre- and post-digital typographic worlds. First systems: dedicated hardware, timesharing and markup, contemporary typesetting systems. Tracing: segment-based, plotters, frames and bitmaps, by outline, ductus. Font formats: Adobe and Postscript, T_EX and METAFONT, the font wars, Type 1, TrueType, OpenType, variable fonts.
- 05. Paragraph Justification: the Knuth-Plass** Introduction and history. The T_EX model: boxes, glues, esthetic criteria, tolerance, penalties, demerits. Problem modelling: solutions graph, shortest path, optimization with dynamic programming.
- 05. The Art of Composition** Introduction: typographic criteria, objective, concept of “typographic color”. Macro-typography: pagination rectangle, interlining. Ortho-typography: rules, conventions, customs, internationalization, multilingualization. Micro-typography: the T_EX model, protrusion, expansion, letterspacing, wordspacing, washed-out, thieves, deceptive lines, orphans, widows, similarities.

2.2 Former Lectures

The following lectures are not given anymore. For the most part, the course materials are archived but continue to be publicly accessible. The number of students varied from around 50 (ENST, ENSTA, UPMC, French National “Beaux Arts” School) to 350 (EPITA).

Title	Location	Type	Level	Workload	Period
Image Synthesis	ENSTA/ ENST/ UPMC	Lectures + Lab. sessions	2 nd year Master's	12h	2000 – 2010
Operating Systems	EPITA	Lectures	3 rd year undergrad.	30h	2000 – 2017
Virtual Reality	ENST/ Beaux Arts	Lectures + Lab. sessions	3 rd year undergrad.	9h	2000 – 2010
Parsing Techniques	EPITA	Lab. sessions	1 st year undergrad.	15h	1999 – 2005
Lisp Programming	IONIS STM	Lab. sessions	MBA	15h	2011 – 2018

The hourly workload is given in hours per student

3 Visibility

3.1 International Conferences Steering Committees

- Onward! (ACM SIGPLAN Symposium on New Ideas in Programming and Reflections on Software), 2020–2023.
- ELS (European Lisp Symposium), co-founder and president since 2008.
- ELW (European Lisp Workshop), 2007–2010.

3.2 International Journal Programme Committees

- Art, Science, and Engineering of Programming Journal, 2021.
- Journal of Universal Computer Science, 2007 – 2010.

3.3 International Conferences Chairs

- Onward! (ACM SIGPLAN Symposium on New Ideas in Programming and Reflections on Software) Essays, 2020.
- ILC (International Lisp Conference), 2014.
- ELS (European Lisp Symposium), 2011.
- ELW (European Lisp Workshop), 2007–2010.

3.4 International Conferences Programme Committees

- DocEng (ACM SIGWEB Symposium on Document Engineering), 2025.
- Onward! (ACM SIGPLAN Symposium on New Ideas in Programming and Reflections on Software) Essays, 2024.
- ICQ (International Conference on Code Quality), 2023–2025.
- ILC (International Lisp Conference), 2012, 2014.
- DLS (Dynamic Languages Symposium), 2011, 2013, 2015.
- SAC (ACM SIGAPP Symposium on Applied Computing), 2012, 2013, 2015.
- ELS (European Lisp Symposium), 2011–2016.
- COP (Context-Oriented Programming Workshop), 2010, 2013, 2016, 2018.
- FARM (ACM SIGPLAN Functional Art, Music, Modelling, and Design Workshop), 2018.
- ELW (European Lisp Workshop), 2007–2010.
- DyLa (Dynamic Languages and Applications Workshop), 2013, 2014.

3.5 Other Committees

- Most Notable Onward! 2010 Paper Award (selection committee 2020).
- Founder and first organizer of the Performance and Genericity Seminar of the EPITA Research Lab (LRE) in 2008. Up to two sessions per month.

3.6 Book Technical Reviewer

- GNU Autoconf, automake, libtool. Gary V. Vaughan, Ben Elliston, Tom Tromey and Ian Lance Taylor. *New Riders, October 2000*. ISBN 9781578701902.

In Brief

Co-founder and president of the European Lisp Symposium (ELS) Steering Committee

- International conferences steering committees: 3 / 22 years cumulated
- International journal programme committees: 2 / 5 years cumulated
- International conferences chairs: 4 / 7 years cumulated
- International conferences programme committees: 11 / 30 years cumulated

4 Academic Tutoring Activities

4.1 Ph.D.'s

4.1.1 Running

- **Supervisor. Co-Tutoring 50%.**
Maya Mouhammad. Network Intrusion Prediction by Federated and Interpretable Learning of Abnormalities in Distributed Environments. EPITA/LRE, Sorbonne University/UPMC, APL Data Center, EDITE of Paris.
- **Supervisor. Co-Tutoring 34%.**
Khaoula Sghaier. Securing V2X Communication Exchanges in Telematic Control Units. EPITA/LRE, Sorbonne University/UPMC, Telecom SudParis/SCN, VEDECOM, EDITE of Paris.

4.1.2 Defended

- **Supervisor. Co-Tutoring 34%.**
Baptiste Esteban. Implementing Modern and Efficient Morphological Techniques for Image Processing and Noise Estimation. EPITA/LRE, Sorbonne University/UPMC, EDITE of Paris. Defended on December 21st 2023.
- **Co-Tutoring 90%.**
Jim E. Newton. Representing and Computing with Types in Dynamically Typed Languages. EPITA/LRE, Sorbonne University/UPMC, EDITE de Paris. Defended on November 20th 2018.

4.2 Master's Internships

- Clément Bonnefoy. Interface and Graphical Programming for an Image Processing Library. *STL Master's, UPMC, 2016.*
- Krista Drusku. Comparative Language Study for the design of DSL's. *STL Master's, UPMC, 2015.*
- Vuong Ha Minh et Tung Nguyen Duc. Sustainability of a Benchmarking Platform for Common Lisp. *Software Engineering Master's, Bordeaux I University, 2010.*

4.3 Student-Researchers

The LRE includes undergraduate students for the duration of their scholarship. We train them for research by making them participate in our research projects. This is done in parallel with the first part of the regular scholarship and leads to a research-oriented major for the last part. They get several small research projects to conduct and validate under our supervision at LRE. Therefore, they can truly be considered “mini Ph.D. students”. For proof, the stars (★) in the list below indicate those who have published before their graduation from EPITA (their names can be found in the “Publications” section). Finally, those who have pursued their studies up to a Master's and/or a Ph.D. are also indicated.

- Aline Vongsavanh
- ★ Antoine Hacquard
- ★ Léo Valais
- ★ François Ripault
- ★ Laurent Senta
- ★ Christopher Chedeau
- Simon Odou, Master's and Ph.D. (LRI / Paris-Sud XI)
- ★ Guillaume Pitel, Master's and Ph.D. (LIMSI, Orsay)
- ★ Yoann Fabre, Master's and Ph.D. (UPMC)

4.4 Ph.D. Jurys and Supervisory Committees

- **Ph.D. Jury / reviewer.** Marco Heisig. Design and Implementation of the Parallel Programming Language Petalisp. *FAU Erlangen, Germany. July 2025. Supervisor: Harald Köstler.*
- **Ph.D. Jury / reviewer.** Jorge Vallejos. Modularising Context Dependency and Group Behaviour in Ambient-Oriented Programming Languages. *Software Languages Lab, Vrije Universiteit Brussel, July 2011. Supervision: Theo D'Hondt, Wolfgang De Meuter, Pascal Costanza.*
- **Supervisory committee.** Amaury Curiel. Binary Decision Trees and Acyclical Directed Graphs. *Sorbonne University/UPMC/LIP6/APR.*
- **Supervisory committee.** Bertrand Petit-Heidelein. Diffuse Computing and Live Arts: Massively Interactive Music. *INRIA/CIRM, STIC (doctoral school). Supervision: Manuel Serrano, François Paris.*

In Brief

• Running Ph.D.'s	2
• Defended Ph.D.'s	2
• 2 nd year Master's internships	3
• 1 st year undergrad. internships	1
• Student-Researchers	9
• Ph.D. jurys	3

• Keynotes and invitations	5
• Book chapters	1
• Technical book reviewing	1
• International journals	4
• International conferences	35
• International workshops	4
• National conferences	4
• Others	9
• Talks	14

5 Publications

5.1 Book Chapters

1. Extensible languages: Blurring the distinction between DSLs and GPLs. Didier Verna. In Marjan Mernik, editor, *Formal and Practical Aspects of Domain-Specific Languages: Recent Developments*, chapter 1. IGI Global, September 2012. ISBN 9781466620926. DOI [10.4018/978-1-4666-2092-6.ch001](https://doi.org/10.4018/978-1-4666-2092-6.ch001).

5.2 Journal Articles

2. A theoretical and numerical analysis of the worst-case size of reduced ordered binary decision diagrams. Jim E. Newton and Didier Verna. *ACM Transactions on Computational Logic*, 20(1), January 2019. ISSN 15293785. DOI [10.1145/3274279](https://doi.org/10.1145/3274279).
3. Lisp, Jazz, Aikido. Didier Verna. *The Art, Science and Engineering of Programming Journal*, 2(3), March 2018. DOI [10.22152/programming-journal.org/2018/2/10](https://doi.org/10.22152/programming-journal.org/2018/2/10).
4. Revisiting the visitor: the just do it pattern. Didier Verna. *Journal of Universal Computer Science*, 16(2):246–271, 2010. DOI [10.3217/jucs-016-02-0246](https://doi.org/10.3217/jucs-016-02-0246).
5. Binary methods programming: the CLOS perspective. Didier Verna. *Journal of Universal Computer Science*, 14(20): 3389–3411, 2008. DOI [10.3217/jucs-014-20-3389](https://doi.org/10.3217/jucs-014-20-3389).

5.3 International Conferences Articles

6. Towards more homogeneous paragraphs. Didier Verna. In *Proceedings of the ACM Symposium on Document Engineering 2025, DocEng’25*, New York, NY, USA, September 2025. Association for Computer Machinery. ISBN 9798400711695. DOI [10.1145/3704268.3742696](https://doi.org/10.1145/3704268.3742696).
7. Similarity problems in paragraph justification: an extension to the Knuth-Plass algorithm. Didier Verna. In *Proceedings of the ACM SIGWEB Symposium on Document Engineering 2024, DocEng’24*, pages 127–130, New York, NY, USA, August 2024. Association for Computing Machinery. ISBN 9798400711695. DOI [10.1145/3685650.3685666](https://doi.org/10.1145/3685650.3685666).
8. A large scale format compliance checker for T_EX font metrics. Didier Verna. In Barbara Beeton and Karl Berry, editors, *TUG’24, 42nd T_EX Users Group Conference*, volume 45, pages 221–226. T_EX Users Group, T_EX Users Group, September 2024. DOI [10.47397/tb/45-2/tb140verna-tfm](https://doi.org/10.47397/tb/45-2/tb140verna-tfm).
9. The Quickref cohort. Didier Verna. In *ELS’24, 17th European Lisp Symposium*, Vienna, Austria, May 2024. ISBN 9782955747483. DOI [10.5281/zenodo.10947962](https://doi.org/10.5281/zenodo.10947962).
10. Structural analysis of the additive noise impact on the α -tree. Baptiste Esteban, Guillaume Tochon, Edwin Carlinet, and Didier Verna. In *Proceedings of the 20th International Conference on Computer Analysis of Images and Patterns (CAIP)*, volume 14185 of *Lecture Notes in Computer Science Series*, Limassol, Cyprus, September 2023. Springer.
11. Interactive and real-time typesetting for demonstration and experimentation: ETAP. Didier Verna. In Barbara Beeton and Karl Berry, editors, *TUG’23, 41st T_EX Users Group Conference*, volume 44, pages 242–248. T_EX Users Group, T_EX Users Group, 2023. DOI [10.47397/tb/44-2/tb137verna-realttime](https://doi.org/10.47397/tb/44-2/tb137verna-realttime).
12. A MOP-based implementation for method combinations. Didier Verna. In *ELS’23, 16th European Lisp Symposium*, pages 6–15, Amsterdam, Netherlands, April 2023. ISBN 9782955747476. DOI [10.5281/zenodo.7818680](https://doi.org/10.5281/zenodo.7818680).
13. The cost of dynamism in static languages for image processing. Baptiste Esteban, Edwin Carlinet, Guillaume Tochon, and Didier Verna. In *Proceedings of the 21st ACM SIGPLAN International Conference on Generative Programming: Concepts & Experiences*, Auckland, New Zealand, December 2022.
14. Estimation of the noise level function for color images using mathematical morphology and non-parametric statistics. Baptiste Esteban, Guillaume Tochon, Edwin Carlinet, and Didier Verna. In *Proceedings of the 26th International Conference on Pattern Recognition*, Montréal, Québec, August 2022.
15. ETAP: Experimental typesetting algorithms platform. Didier Verna. In *ELS’22, 15th European Lisp Symposium*, pages 48–52, Porto, Portugal, March 2022. ISBN 9782955747469. DOI [10.5281/zenodo.6334248](https://doi.org/10.5281/zenodo.6334248).
16. A corpus processing and analysis pipeline for quickref. Antoine Hacquard and Didier Verna. In *14th European Lisp Symposium*, pages 27–35, Online, May 2021. ISBN 9782955747452. DOI [10.5281/zenodo.4714443](https://doi.org/10.5281/zenodo.4714443).

17. Finite automata theory based optimization of conditional variable binding. Jim E. Newton and Didier Verna. In *ELS'19, 12th European Lisp Symposium*, pages 26–33, Genova, Italy, April 2019. ISBN 9782955747438. DOI [10.5281/zenodo.2635402](https://doi.org/10.5281/zenodo.2635402).
18. Implementing baker's subtypep decision procedure. Léo Valais, Jim E. Newton, and Didier Verna. In *ELS'19, 12th European Lisp Symposium*, pages 12–19, Genova, Italy, April 2019. ISBN 9782955747438. DOI [10.5281/zenodo.2646982](https://doi.org/10.5281/zenodo.2646982).
19. Parallelizing Quickref. Didier Verna. In *ELS'19, 12th European Lisp Symposium*, pages 89–96, Genova, Italy, April 2019. ISBN 9782955747438. DOI [10.5281/zenodo.2632534](https://doi.org/10.5281/zenodo.2632534).
20. Quickref: Common Lisp reference documentation as a stress test for Texinfo. Didier Verna. In Barbara Beeton and Karl Berry, editors, *TUG'19, 40th T_EX Users Group Conference*, volume 40, pages 119–125. T_EX Users Group, T_EX Users Group, September 2019.
21. Strategies for typecase optimization. Jim E. Newton and Didier Verna. In *ELS'18, 11th European Lisp Symposium*, pages 23–31, Marbella, Spain, April 2018. ISBN 9782955747421. DOI [10.5281/zenodo.3405191](https://doi.org/10.5281/zenodo.3405191).
22. Method combinators. Didier Verna. In *ELS'18, 11th European Lisp Symposium*, pages 32–41, Marbella, Spain, April 2018. ISBN 9782955747421. DOI [10.5281/zenodo.3247610](https://doi.org/10.5281/zenodo.3247610).
23. Programmatic manipulation of Common Lisp type specifiers. Jim E. Newton, Didier Verna, and Maximilien Colange. In *ELS'17, 10th European Lisp Symposium*, pages 28–35, Vrije Universiteit Brussel, Belgium, April 2017. ISBN 9782955747414. DOI [10.5281/zenodo.3405363](https://doi.org/10.5281/zenodo.3405363).
24. Type-checking of heterogeneous sequences in Common Lisp. Jim E. Newton, Akim Demaille, and Didier Verna. In *ELS'16, 9th European Lisp Symposium*, pages 13–20, AGH University of Science and Technology, Krakow, Poland, April 2016. ISBN 9782955747407. DOI [10.5281/zenodo.3405173](https://doi.org/10.5281/zenodo.3405173).
25. The incredible tale of the author who didn't want to do the publisher's job. Didier Verna. In Barbara Beeton and Karl Berry, editors, *TUG'13, 34th T_EX Users Group Conference*, volume 34. T_EX Users Group, 2013.
26. TiCL: the prototype (Star T_EX: the next generation, season 2). Didier Verna. In Barbara Beeton and Karl Berry, editors, *TUG'13, 34th T_EX Users Group Conference*, volume 34. T_EX Users Group, 2013.
27. Generic image processing with Climbl. Laurent Senta, Christopher Chedeau, and Didier Verna. In *ELS'12, 5th European Lisp Symposium*, Zadar, Croatia, May 2012. DOI [10.5281/zenodo.3248934](https://doi.org/10.5281/zenodo.3248934).
28. Star T_EX: the next generation. Didier Verna. In Barbara Beeton and Karl Berry, editors, *TUG'12, 33rd T_EX Users Group Conference*, volume 33. T_EX Users Group, 2012.
29. Biological realms in computer science. Didier Verna. In *Onward'11: the ACM SIGPLAN International Symposium on New Ideas, New Paradigms, and Reflections on Programming and Software Proceedings*, pages 167–176. ACM, October 2011. ISBN 9781450309417. DOI [10.1145/2089131.2089140](https://doi.org/10.1145/2089131.2089140).
30. Towards \mathbb{T} _EX coding standards. Didier Verna. In Barbara Beeton and Karl Berry, editors, *TUG'11, 32nd T_EX Users Group Conference*, volume 32, pages 309–328. T_EX Users Group, 2011.
31. CLoX: Common lisp objects for XEmacs. Didier Verna. In *ELS'10, 3rd European Lisp Symposium*, Lisbon, Portugal, May 2010. DOI [10.5281/zenodo.3248958](https://doi.org/10.5281/zenodo.3248958).
32. Classes, styles, conflicts: the biological realm of \mathbb{T} _EX. Didier Verna. In Barbara Beeton and Karl Berry, editors, *TUG'10, 31st T_EX Users Group Conference*, volume 31, pages 162–172. T_EX Users Group, 2010.
33. CLOS efficiency: Instantiation. Didier Verna. In *ILC'09 International Lisp Conference*, pages 76–90, MIT, Cambridge, Massachusetts, USA, March 2009. ALU (Association of Lisp Users). DOI [10.5281/zenodo.3386206](https://doi.org/10.5281/zenodo.3386206).
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