

Thierry Viéville

63 years old, French, Director of Research (DR1) INRIA, Mnemosyne Research Team and LINE laboratory

Degrees and education:

1993: Diplôme d'Habilitation à Diriger les Recherches en Sciences, Spécialité Vision et Robotique, Université de Nice Sophia-Antipolis.

1985-1988: Doctorat d'Université en Sciences de la Vie et de la Santé, Spécialité de Neurophysiologie, Université Pierre et Marie Curie, Paris VI. 1984-1985: Diplôme d'Etudes Approfondies en Neurosciences, Université Pierre et Marie Curie, Paris VI.

1981-1983: Maîtrise de Mathématiques Fondamentales, Université de Paris VII.

1980-1981: Ingénieur Bio-Médical de l'E.N.S.T. Paris et ingénieur de l'Ecole Nationale Supérieure des Télécommunications de Bretagne.

Academic position:

[Thierry Viéville](#) is a Senior Researcher at [INRIA](#) (National Research Institute in Computer Science and Control Theory) where he works in [Computational Neurosciences](#) (CN) while he teaches and advises PhD students. His [research interests](#) after Computer Vision is now Computation Neuroscience, more precisely Visual Perception and Adaptive Processes in Systemic Neuroscience.

He now also collaborates in Educational Science within the [LINE laboratory](#), regarding computational thinking teaching, and learner modeling using cognitive neuroscience and machine learning frameworks, within the [AIDE](#) exploratory action. He advised more than 20 PhD students and participated in several international collaborations (including 6 EEC and 4 ANR projects) with WP responsibilities or project lead.

He also helps the INRIA board regarding Science Outreach, has launched the Class´Code program of formation of teachers and educators regarding children computer science education (over 50000 persons impacted).

Publications (selection over the last years):

- [Délirer avec l'intelligence artificielle au service de l'intelligence naturelle](#) (peer-reviewed book chapter) édéric Alexandre, Thierry Viéville, Marie-Hélène Comte, Penser calculer délibérer. Mare & Martin, pp.19, 2022.
- [Reinforcement Symbolic Learning](#) (communication with article in preparation) Chloé Mercier, Frédéric Alexandre, Thierry Viéville, ICANN 2021, 30th International Conference on Artificial Neural Networks, Sep 2021, Bratislava.
- [Why, What and How to help each Citizen to Understand Artificial Intelligence?](#) (article) Frédéric Alexandre, Jade Becker, Marie-Hélène Comte, Aurelie Lagarrigue, Romain Liblau, Margarida Romero, Thierry Viéville, KI - Künstliche Intelligenz, Springer Nature, 2021, pp.1610-1987
- [Formalizing Problem Solving in Computational Thinking : an Ontology approach](#) (communication with article accepted) Chloé Mercier, Lisa Roux, Margarida Romero, Frédéric Alexandre, Thierry Viéville IEEE ICDL 2021 – International Conference on Development and Learning 2021, Aug 2021, Beijing, China
- [Ontology as neuronal-space manifold: Towards symbolic and numerical artificial embedding](#) (communication with article accepted) Chloé Mercier, Hugo Chateau-Laurent, Frédéric Alexandre, Thierry Viéville KRHCAI 2021 Workshop on Knowledge Representation for Hybrid & Compositional AI @ KR2021, Nov 2021, Hanoi, Vietnam
- [Bio-inspired analysis of deep learning on not-so-big data using data-prototypes](#) (article) T. Drumond, T. Viéville, F. Alexandre. Front. Comput. Neurosci. 2019, 12, pp 100.
- [Le jeu du robot : analyse d'une activité d'informatique débranchée sous la perspective de la cognition incarnée](#) (article) M. Romero, M. Duflot, T. Viéville. *Review of science, mathematics and ICT education*, Laboratory of Didactics of Sciences, Mathematics and ICT, Department of Educational Sciences and Early Childhood Education - University of Patras, 2019,.

Total: more that 50 peer-reviewed articles, 130 communications or book chapter, 1 book, 25 multimédia documents, 10 software or middleware and many large audience science outreach publications.

Responsibilities (5 over the last ten years):

2020-2023 : Co-Direction of the [AIDE AEx](#) exploratory action.

2018-2021 : Co-Direction of the [SmartEdtech Msc](#) of U. Côte d'Azur.

2015-2020 : Development and co-management of the [Class´Code](#) (2,5M€) PIA initiative.

2010-2016 : In charge of Science Outreach for the General Direction of Science of the Inria institute.

2010-2013 : Development and management of ANR international [KEOpS](#) CN project on the retina.