

Curriculum Vitae

Thierry Vallée

Doctor in Mathematics

Date of Birth: 21 / 09/1961

Email: vallee.th@yahoo.fr

Address:

7 Allée Georges Rouault

75020 Paris, France

Phone: +33 (0)1 77 48 22 81

Academic Experience, Research and Teaching

- August 2007- July 2008: Assistant Professor in Mathematics and Statistics, Department of Mathematical Sciences, Georgia Southern University, Statesboro, Georgia.
Teaching: Statistics, College Algebra.
- May 2003- April 2007: Postdoctoral Researcher, Centre for Efficiency Oriented Languages, (SFI foundation project), Dept. of Computer Science, University College Cork, Lancaster House, 6 Little Hanover Street, Cork, Ireland.
Research Areas: Complexity, Semantics, Order Theory.
- August 2002-April 2003 : Posdoctoral Researcher at the Dept. of Mathematics and Computer Sciences of the University of Udine, Sede Via delle Scienze 208, 33100 Udine, Italy.
Research Area: Foundation of Mathematics (Set Theory).
- September 1997-August 1999 : ATER (temporary lecturer) in Mathematics, Computer Science and Office Automation, IUT, dept. GEA, Université d'Auvergne-Clermont 1, Campus Universitaires des Cézeaux, BP 86 - 63172 Aubière Cedex, France.
Teaching: Algebra, Analysis, Statistics, Programming, Word-Excel.

Studies and Diplomas

- Doctorat (PhD) in Mathematical Logic and Foundations of Computer Science, Dept. of Mathematics of the University Paris VII, 2001.
- Training Course, "Unix Analyst, Data Bases and Networks", IGS Group (IBIA-Paris), April 97- September 97.

- DEA (fifth year degree) in Mathematical Logic and Foundations of Computer Science, Dept. of Mathematics of the University Paris VII, 1995.
- Maitrise (fourth year degree) in Logic, Dept. of Philosophy, University Paris I, 1994.
- Licence (third year degree) in Philosophy and Licence in Logic, Dept. of Philosophy, University Paris I, 1992.

Publications and Prepublications

Publications

PhD Thesis

- *"Map Theory" et Antifondation*, ENTCS Vol.79 (2003), pp. 1-260.

Journal Publications

- *Normal eulerian clique-covering and hamiltonicity* - Information Processing Letters 110, Issue 16 (2010), pp. 697-701.
- *A clique-covering sufficient condition for hamiltonicity of graphs-* (with A. Bretto, University of Caen, France), Information Processing Letters (2009), pp. 1156-1160.
- *TEPAWSN: A Formal Analysis Tool for Wireless Sensor Network-* (with T. Krilavicius, K.L. Man, H.L. Leung), International Journal of Research and Reviews in Computer Science (IJRRCS), Vol. 1, No. 1(2010), pp. 24-26..
- *Compatible topologies on graphs: An application to graph isomorphism problem complexity-* (with A. Bretto and A. Faisant), Theoretical Computer Science, Vol. 362 (1-3), (2006), pp. 255-272.

Proceedings

- *Cartesian product of hypergraphs: properties and algorithms*, (with A. Bretto and Y. Silvestre), Proceedings of ACAC'09, EPTCS 4, 2009, pp. 22-28.
- *TEPAWSN - A Tool Environment for Wireless Sensor Networks*, (with K.L. Man, H.L. Leung, M. Mercaldi, J. Van der Wulp, M. Donno, M. Pastrnak), accepted for publication in the proceeding of ICIEA'09 (4th IEEE Conference on Industrial Electronics and Applications), 25-27 May 2009, Xi'An,China.
- *Hamiltonicity of simplicial-connected graphs: an algorithm based on clique decomposition*, Proceedings of ITNG'08, IEEE Computer Society Order Number P3099, ISBN 978-0-7695-3099-4 (2008), p. 904-909.

- *Reconstruction problem and Equivalence Order-labellings-* (with J. Manning), Proceedings of MFCSIT'06, ref:17307, ENTCS (2009), pp. 441-456.
- *Functionally-Generalised MOQA Operations-* Proceedings of MFCSIT'06, ref:ENTCS17306, ENTCS (2009), pp. 421-439.
- *Map Theory : from Foundation to Antifoundation-* Proceedings of the 6th Workshop on Domains (WD6), ENTCS Vol.73 (2004), pp. 217-245.
- *Une introduction a "Map Theory"-* Actes du LLAIC (Laboratoire de Logique Algorithmique et Informatique de Clermont 1), Université d'Auvergne-Clermont 1, Vol VI, Ed. F. Gaillard et D. Richard (1997), pp. 214-227.

Pre-Publications

Journal Submissions

- *A new closure concept preserving hamiltonicity and based on neighborhood equivalence*, submitted to journal of Discrete Mathematics (2010), 9p.

Others

Internal Reports

- *De Giorgi's theory into Map Theory-* final report, postdoc project July 2002-24 April 2003, Dept. of Mathematics and Computer Science, University of Udine (2003), 48 p.
- *Sur l'interprétation de ZFC dans "Map Theory"-* Prépublications de l'équipe de Logique, CNRS-Paris VII, N62, Juin 97.

Other Scientific Achievements

Scientific Talks

- *Hamiltonicity of simplicial-connected graphs: an algorithm based on clique decomposition*, ITNG'08, University of Nevada, April 6-9, 2008.
- *Functionally-Generalised MOQA Operations-* MFCSIT'06, University College Cork, August 1-5, 2006.
- *Reconstruction of Partial Orders*, joint talk with Dr. Joseph Manning, MFCSIT'06, University College Cork, August 1-5, 2006.
- *Compatible Topologies on Graphs: an application to Complexity Theory via the Graph Isomorphism Problem*, 21st Summer Conference on Topology and its Applications, Georgia Southern University, July 6-9, 2006

- *Compatible topologies on graphs: an application to Graph Isomorphism problem Complexity*, Computer Science Colloquium, Graduate Center, City University New-York, May 2006.
- *Reconstruction of partial orders and models of ACETT*, Contributed talk, ISDT'04, Xi'An, China, May 2004.
- *Map Theory and Antifoundation*, Contributed Talk for the 6th Workshop on Domains (WD6), Birmingham 16-19 Sept. 2002.

Research Visits

- Invitation at the DIKU (Klaus Grue), University of Copenhagen, one week, 2003.
- Invitation at the DIKU, University of Copenhagen, Dept. of Computer Sciences, one week, July 1997.

Program Committees

- MFCSIT'06 (Mathematical Foundation of Computer Science and Information Technology 2006), University College Cork, Ireland, 1-5 August, 2006.
- DATICS'08 (Design, Analysis and Tools for Integrated Circuits and Systems 2008), part of the 12th WSEAS International Conference on CIRCUITS, Heraklion, Crete Island, Greece, July 22-24, 2008.
- DATICS'09, Special Session in the IAENG IMECS 2009 Conference which will take place in Hong Kong, 18-20 March, 2009.

Grants

- Foundation Grant from the Department of Mathematics, Georgia Southern University.

Appendix: Other professional Experience

Other Experience in Education

- 1989-1991 : Monitor, College et Lycée Privé Morvan pour Déficients auditifs (Private Secondary and High School for Deaf and Auditory deficient persons), Paris, France.

- 1985-1989 : Monitor (National Education), - Lycée de Nantua (High School of Nantua), Nantua, France. - Lycée Professionnel d'Ambérieu-En-Bugey (Professional High School of Ambérieu-en-Bugey), Ambérieu-en-Bugey, France.
- 1987-1988 : French and Arithmetic Teacher, Lycée Professionnel d'Ambérieu-En-Bugey, Ambérieu-en-Bugey, France.

Other Work Experience

- 1995-1996 : Receptionist, order controller, GRP (Pharmaceutics Distribution Group), Créteil, France.
- 1991-1993 : Various temporary jobs (stevedore, furniture delivery) ECCO, Ivry-sur-Seine, France.
- 1983-1985 : Unskilled worker, CIAPEM S.A (Thomson Group), Lyon, France.
- 1981-1983 : Various temporary jobs, Manpower, Lyon, France.