

List of Publications

Thierry Vallee
vallee_th@yahoo.fr, vallee@pps.jussieu.fr

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Ph.D. Publication

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

Journal Publications

- A new closure concept preserving graph hamiltonicity and based on neighborhood-equivalence, Discrete Mathematics 311 (2011), pp. 336-341.
- Normal eulerian clique-covering and hamiltonicity, Information Processing Letters 110, Issue 16 (2010), pp. 697-701.
- 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.
- A new clique-covering sufficient condition for hamiltonicity of graphs, (with A. Bretto, University of Caen, France), Information Processing Letters 109 (2009), pp. 1156-1160.
- 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.

Conference Publications

- Cartesian product of hypergraphs: properties and algorithms, (with A. Bretto and Y. Silvestre), Proceedings of ACAC'09, EPTCS 4 (2009), pp. 22-28.
- Hamiltonicity of simplicial-linked graphs: an algorithm based on clique decomposition, Proceedings of ITNG'08, IEEE Computer Society Order Number P3099, ISBN 978-0-7695-3099-4 (2008), pp. 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), Universite d'Auvergne-Clermont 1, Vol VI, Ed. F. Gaillard et D. Richard (1997), pp. 214-227.

Pre-publications

- A theory of hyperflows on directed hypergraphs - (with Alain Bretto and Y. Sylvestre) submitted to STOC 2012 (2011), 26 pp.
- Factorization of hypergraphs - (with Alain Bretto and Y. Sylvestre) submitted to Theoretical Computer Science (2011), 23 pp.
- Another closure concept preserving graph hamiltonicity and based on neighborhood-equivalence - submitted to Discussiones Mathematicae Graph Theory (2012), 13 pp.
- Another closure concept preserving N2-Chain closures and Hamiltonicity - to be submitted, 37 pp.
- 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'interpretation de ZFC dans "Map Theory", Prepublications de l'Equipe de Logique, CNRS-Paris VII, N62, Juin 97.