

Hakim AKEB

Professor



Teaching Areas: Computer Science, information Systems

Year hired at ISC Paris: 2007

**Full-Time
Participating**

Grande Ecole and MBA

Education:

Degree	Institution	Year	Major / Minor
Doctorate	University of Picardie Jules Verne, Amiens	2005	Computer Science
DEA	University of Picardie Jules Verne, Amiens	2002	Computer Science

Course Responsibilities at ISC Paris 2005 through 2011:

- Computer Science I and II (Word, Excel, and Powerpoint)
- Computer Science III (Microsoft Access)
- Business Intelligence
- Introduction to algorithms and programming
- Excel for Managers
- Excel

Intellectual Contributions 2005 through 2011:

Intellectual Contributions	Total
Refereed Journal Articles (AERES / CNRS Selection)	7
Peer-Reviewed Journal Articles	1
Other Journal Articles	
Conference Proceedings	13
Case Studies	
Scholarly Books	
Chapters in Scholarly Books	
Working Papers	3
Other Outlets	
Total	24

Education

Doctorate: Theme: Operations research, University of Picardie Jules Verne, Amiens, December 9, 2005

Graduate: DEA in Computer science, University of Picardie Jules Verne, Amiens, 2002.

Academic Appointments

Research associate, UTC University of Technology of Compiègne, Year 2004-2005

Research associate, UPJV University of Picardie Jules Verne, Amiens, Year 2005-2006

Associate Professor, UPJV University of Picardie Jules Verne, Amiens, Year 2006-2007

Instructional Activities and Development

Taught Courses outside ISC Paris since 2005

- UTC Compiègne, Algorithms and data structures, Year 1, 2004-2005
- UPJV Amiens, Advanced databases, Master 2 MIAGE, 2005-2006
- UPJV, Web (PHP, MySQL), L2 informatique, 2005-2006
- UPJV, Networks advanced technologies, Master 2 MIAGE, since September 2006
- UPJV, Information systems security, Master 2 MIAGE, since September 2006

Professional Memberships and Certifications

Member of ROADEF (French Society of Operations Research and Decision making support) since 2007.

Member of MIS Laboratory (Modelization, Information, and Systems), UPJV Amiens, since 2007.

Service

Institutional

Head of the courses "Computer science I and II", Year 1, EAC, since 2008-2009

Head of the course "Computer science III", Year 2, EAC, since 2008-2009

Head of the course "Business Intelligence", Year 2, since 2009-2010

Head of the course "Introduction to algorithms and programming", Year 3 MMTI since 2009-2010

Scientific Activities

Head of Research Centers or Research Axis

Co-Director of a thesis at University of Paris 1 Panthéon Sorbonne since November 2010.

Co-Director of a thesis at University of Paris 1 Panthéon Sorbonne since February 2011.

Reviewer at Elsevier (for many well-known journals).

Intellectual Contributions

Refereed Journal Articles (AERES / CNRS Selection)

AKEB H., HIFI M. and NEGRE S. An augmented beam search-based algorithm for the circular open dimension problem. *Computers & Industrial Engineering*, September 2011, Vol. 61, Issue 2, pp. 373-381, (CNRS Category 3).

AKEB H., HIFI M. and M.E. OULD AHMED MOUNIR. Local branching-based algorithms for the disjunctively constrained knapsack problem. *Computers & Industrial Engineering*, May 2011, Vol. 60 Issue 4, pp. 811-820. (CNRS Category 3).

AKEB H. and HIFI M. A hybrid beam search looking-ahead algorithm for the circular packing problem. *Journal of Combinatorial Optimization*, August 2010, Vol. 20, pp 101-130. (AERES).

AKEB H. and HIFI M. Adaptive beam search lookahead algorithms for the circular packing problem. *International Transactions in Operational Research*, September 2010, Vol. 17, Issue 5, pp. 553-575. (CNRS Category 3).

AKEB H., HIFI M. and M'HALLAH R. A beam search algorithm for the circular packing problem. *Computers and Operations Research*, May 2009, Vol. 36, Issue 5, pp 1513-1528. (CNRS Category 2).

AKEB H. and HIFI M. Algorithms for the circular two-dimensional open dimension problem. *International Transactions in Operational Research*, November 2008, Vol. 15, Issue 5, pp 685-704, (CNRS Category 3).

HUANG W.Q., LI Y., AKEB H., and LI C.M. Greedy algorithms for packing unequal circles into a rectangular container. *Journal of the Operational Research Society*, May 2005, Vol. 56, pp 539-548. (CNRS Category 2).

Peer-Reviewed Journal Articles

AKEB H. and HIFI M. Adaptive algorithms for circular cutting/packing problems. *International Journal of Operational Research*, July 2009, Vol. 6, Issue 4, pp. 435-458.

Conference Proceedings

AKEB H. and HIFI M. An extended beam search-based algorithm for the strip packing problem. In Proceedings of the *Artificial Evolution international conference* (EA 2011), 24-26 October 2011, Angers, France, 12 pages.

AKEB H. and HIFI M. An adaptive look-ahead strategy-based algorithm for the circular open dimension problem. In Proceedings of *The Second International Conference on Adaptive and Self-adaptive Systems and Applications* (IARIA-ADAPTIVE 2010), 21-26 November 2010, Lisbon, Portugal, pp. 158-163.

AKEB H. and HIFI M. An augmented beam-search based algorithm for the strip packing problem. In Proceedings of *International Conference on Operations Research and Financial Engineering* (ICORFE 2010), 28-30 June 2010, Paris, pp. 927-933. (Session Chair).

AKEB H., HIFI M. and M'HALLAH R.. A non-oscillating beam-search with a look-ahead for the circular packing problem. In Proceedings of *IEEE International Conference on Industrial Engineering and Engineering Management (IEEM)*, Hong-Kong, 8-11 December 2009, pp. 365-369. (Best conference paper Award).

AKEB H., HIFI M. and NEGRE S. An augmented beam search-based algorithm for the circular open dimension problem. In Proceedings of *IEEE Conference on Computers & Industrial Engineering*, Université de Technologie de Troyes, 6-8 July 2009, Troyes, France, pp. 372-377. (Session Chair).

AKEB H., HIFI M. and NEGRE S. Un algorithme coopératif pour le problème de découpe circulaire non-contraint. In *Abstracts of the 10th conference of the French Society of Operational Research and Decision Making (ROADEF'09)*, 10-12 February 2009, Nancy, France, pp. 279-280.

AKEB H., and HIFI M., Méthodes adaptatives pour le problème de découpe circulaire contraint. In *Abstracts of the 9th conference of the French Society of Operational Research and Decision Making (ROADEF'08)*, 25-27 February 2008, Clermont-Ferrand, France, 2 pages.

AKEB H., HIFI M. and M'HALLAH R. Solving the circular packing problem using a beam search approach-based algorithm. In *Proceedings of the 7th International Conference of Modelization and Simulation (MOSIM'08)*, March 31 - April 2nd 2008, Paris, (Eds Tec&Doc - Lavoisier) ISBN:978-2-7430-1057-7, vol. 3, pp. 1951-1958. (Session Chair).

AKEB H. and LI Y. A hybrid heuristic for packing unequal circles into a circular container. In *Proceedings of IEEE/SSSM'06 International Conference (SSSM'06)*, Université de Technologie de Troyes, 25-27 October 2006, Troyes, France, pp. 922-927.

AKEB H. and LI Y. Heuristique de base pour le placement de cercles identiques dans un conteneur circulaire. In *Proceeding of the 6th Conference of Modelization and Simulation (MOSIM'06)*, 3-5 April 2006, Rabat, Morocco, pp. 1568-1576.

AKEB H. and LI Y. Application d'une stratégie d'intensification pour la résolution du problème de placement de cercles identiques par l'exploration de configurations initiales. In *Abstracts of the 7th conference of the French Society of Operational Research and Decision Making (ROADEF'06)*, 6-8 February 2006, Lille, France, 2 pages.

AKEB H. and LI Y. Improvement of an equal-circles packing heuristic by investigating initial configurations. In *Proceedings of the VTH ALIO/EURO Conference on Combinatorial Optimization (ALIO/EURO)* ENST, 26-28 October 2005, Paris, 1 page.

AKEB H. and LI Y. Heuristiques de base pour le placement d'un grand nombre de cercles identiques dans un cercle. In *Abstracts of the 6th conference of the French Society of Operational Research and Decision Making (ROADEF'05)*, 14-16 February 2005, Tours, France, pp. 51-52.

Working Papers

AKEB H. and HIFI M. Centre d'Economie de la Sorbonne, Team CERMSEM, "Beam Search-Based Algorithms for the Circular Packing Problem", N° 2007.70, <http://ces.univ-paris1.fr/cesdp/CESFramDP2007.htm>

AKEB H. and HIFI M. Centre d'Economie de la Sorbonne, Team CERMSEM, "Algorithms for the circular open dimension problem", N° 2007.59, <http://ces.univ-paris1.fr/cesdp/CESFramDP2007.htm>

AKEB H. and HIFI M. Centre d'Economie de la Sorbonne, Team CERMSEM, "Adaptive beam search solution procedures for constrained circular cutting problems", N° 2007.52B, <http://ces.univ-paris1.fr/cesdp/CESFramDP2007.htm>