

CURRICULUM VITAE

PERSONAL DATA

Name	Brahim Mohand Chaourar
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Position	Associate Professor
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EDUCATION

Year	Academic Degree	Institution
1993	PhD in Operations Research	Fourier University, Grenoble, France
1989	MSc in Operations Research	Fourier University, Grenoble, France
1988	BSc in Mathematics	Boumediene University, Algiers, Algeria
1984	High School Diploma in Mathematics	Emir Abdelkader High School, Algiers, Algeria

WORK EXPERIENCE

Period	Position	Address
2013-today	Associate Professor	Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia
2007-2013	Assistant Professor	Imam Mohammad Ibn Saud Islamic University, Riyadh, Saudi Arabia
1997-2007	Senior Lecturer	Riyadh College of Technology, Riyadh, Saudi Arabia
1993-1995	Assistant Professor	Western Brittany University, Brest, France

RESEARCH INTERESTS

Combinatorial Optimization, Matroids

PUBLICATIONS

- 1 .Chaourar, B., Meyniel Graphs and Algorithms, MSc thesis in Operations Research, Joseph Fourier University, 1989.
- 2 .Chaourar, B., An Example of Well Quasi Order for Graph-Trees Pairs, 4th Maghrebian Conference on Engineer Numeric Models, Algeria, May 1992.
- 3 .Chaourar, B. and Seb"o, A., Strong and Totally Strong Graphs, IMAG-119/RR 902, RR/IMAG, Grenoble, October 1992.
- 4 .Chaourar, B., A Characterization of Greedy Bases in Matroids, 2nd Working Conference on Algorithmic Approaches to Large and Complex Combinatorial Optimization Problems, Schloß Dagstuhl, Germany, May 1993.
- 5 .Chaourar, B., Hilbert Bases and Combinatorial Applications, PhD thesis in Computer Sciences (Discrete Mathematics), Joseph Fourier University, 1993.
- 6 .Chaourar, B., Greedy Spanning Trees Packing, 6th French-Japanese Days on Combinatorics, Optimization and Discrete Geometry, Paris, France, July 1994.
- 7 .Chaourar, B., Abida, L. and Latef, K., A Statistical Study about the Effect of Mathematics Marks on the Final Cumulative Average of Diploma Students, Riyadh College of Technology, Saudi Arabia, 1999-2000.
- 8 .Chaourar, B., On Greedy Bases Packing in Matroids, European Journal of Combinatorics 23, 2002, 769-776.
- 9 .Chaourar, B., and Oxley, J., On Series-Parallel Extensions of Uniform Matroids, European Journal of Combinatorics 24, 2003, 877-879.
- 10 .Chaourar, B., Teaching Mathematics using Computers, 3rd Saudi Technical Conference and Exhibition, Riyadh, Saudi Arabia, December 2004, Volume I, 28-36.
- 11 .Chaourar, B. and Mahlous, A. R., Optimizing QoS Resources in Series Parallel Networks, Saudi 18th National Computer Conference, March 2006, Riyadh, Saudi Arabia.
- 12 .Chaourar, B., The Kth Best Spanning Tree is Polynomial in Series Parallel Graphs, 3rd Saudi Science Conference, Riyadh, March 2007.
- 13 .Chaourar, B., Mahlous, A. R., and Fretwell, R. J., On Minimizing Unused Bandwidths in Series Parallel Networks, 3rd Saudi Science Conference, Riyadh, March 2007.
- 14 .Mahlous, A. R., and Chaourar, B., Quality Of Service Routing with a MultiPath Algorithm, 3rd Saudi Science Conference, Riyadh, March 2007.
- 15 .Mahlous, A. R., Chaourar, B., and Fretwell, R. J., A Comparison Study between a Unipath and a Multipath QoS Routing, Eighth Informatics Workshop for Research Students Bradford UK (ISBN 978 , (2 246 85143 1 June 2007, 158-160.
- 16 .Fourar Laidi, H., and Chaourar, B., Combining Object and Planning Paradigms for Human Skeleton Movement Simulation, Modeling and Simulation Conference 2007, Algiers, July 2007.
- 17 .Chaourar, B., and Mahlous, A. R., Minimizing Unused Bandwidths in Computers Networks, Applied Computing and Informatics 6 (2), 2008, 15-22.

- 18 .Chaourar, B., On the Kth Best Base of a Matroid, Operations Research Letters 36 (2), 2008, 239-242.
- 19 .Mahlous, A. R., Chaourar, B., and Fretwell, R. J., A Novel Path Determination for a Multipath Routing Using Max Flow Algorithm, Ninth Informatics Workshop for Research Students Bradford UK (ISBN 978 1 85143 251 6), June 2008, 170-173.
- 20 .Mahlous, A. R., Chaourar, B., and Fretwell, R. J., A Comparative Study between Max Flow Multipaths, Multi Shortest Paths and Single Shortest Path, PGNet 2008 (ISBN: 978-1-902560-19-9).
- 21 .Mahlous, A. R., Chaourar, B., and Fretwell, R. J., MFMP: Max Flow Multipath Routing Algorithm, Second UKSim European Symposium on Computer Modelling and Simulation, Liverpool, England, September 2008, 482-487.
- 22 .Chaourar, B., On the Broadcast Routing Problem, 5th Saudi Technical Conference and Exhibition, Riyadh, Saudi Arabia, January 2009, Volume II, 145-150.
- 23 .Mahlous, A. R., Chaourar, B., and Mansour, M., Performance Evaluation of Max Flow Multipath (MFMP) protocol with Congestion Awareness, the IEEE 23rd International Conference on Advanced Information Networking and Applications (WAINA-09), Bradford, UK, May 26-29, 2009, (ISBN: 978-0-7695-3639).
- 24 .Chaourar, B., Mahlous, A. R., and Fretwell, R. J., On Minimizing Unused Bandwidths in Series Parallel Networks, Journal of King Saud University - Science 21 (Special Issue), 2009, 21-24.
- 25 .Chaourar, B., An $O(K n \log[K n])$ Algorithm for the Kth Best Spanning Tree in Series Parallel Graphs, Arabian Journal for Science and Engineering 35 (1D), 2010, 29-35.
- 26 .Mahlous, A. R., and Chaourar, B., MFMP Vs ECMP under RED Queue Management, International Journal of Computer Networks 4 (6), 2011, 397-402.
- 27 .Chaourar, B., A Characterization of Uniform Matroids, ISRN Algebra, 2011, Article ID 208478, doi:10.5402/2011/208478.
- 28 .Chaourar, B., A Linear Time Algorithm for a Variant of the Max Cut Problem in Series Parallel Graphs, Advances in Operations Research, 2017, Article ID 1267108.
- 31 .Chaourar, B., The Facets of the Bases Polytope of a Matroid and Two Consequences, Open Journal of Discrete Mathematics 8 (1), 2018, 14-20.
- 32 .Chaourar, B., On the Broadcast Routing Problem, 4th Conference on Mathematical Sciences and Applications, Riyadh, Saudi Arabia, April 11-12, 2018.
- 33 .Chaourar, B., The Kth TSP is Pseudopolynomial when TSP is Polynomial, Discrete Mathematics, Algorithms and Applications 10 (5), 2018, 1850058.
- 34 .Chaourar, B., A Min-Max Relation for Bases Packing of a Matroid, Discrete Mathematics, Algorithms and Applications 11 (6), 2019, 1950069.
- 35 .Chaourar, B., Connected Max Cut is Polynomial for Graphs without the Excluded Minor K_5 , Journal of Combinatorial Optimization 40, 2020, 869-875, doi:10.1007/s10878-020-00637-6.
- 36 .Chaourar, B., The facets of the spanning tree polytope, Mathematical Methods of Operations Research 96, 2022, 113-121, doi:10.1007/s00186-022-00786-w.