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## **Biography**

Born in Zahle 25/9/1970. Attended Notre Dame des Apotres in KabElias for elementary and secondary education. B.Sc and M.Sc in mathematics, Ottawa university. Ph.D in mathematics, Queen's university, Canada. Research interests: Jordan triple systems, sourse coding theory, differential equations.

## **Peer-reviewed Journals**

- Z. Rached and M. Racine, "Jordan Triple Systems of Degree at Most 2," Communications in Algebra, 24(3), 963-1001 (1996).
- Z. Rached and M. Racine, "Exceptional Jordan Triple Systems," Communications in Algebra, 25(8), 2687-2702 (1997).
- Z. Rached, F. Alajaji and L. L. Campbell, "Rényi's Divergence and Entropy Rates for Finite Alphabet Markov Sources," IEEE Transactions on Information Theory, Vol. 47, No. 4, 1553-1560, May 2001.
- F. Alajaji, P. N. Chen and Z. Rached, "A Note on the Poor-Verdú Conjecture for the Channel Reliability Function," IEEE Transactions on Information Theory, Vol. 48, No. 1, 309-313, January 2002.
- Z. Rached, F. Alajaji and L. L. Campbell, "On the Kullback-Leibler Divergence Rate for Finite Alphabet Markov Sources," IEEE Transactions on Information Theory, Vol. 50, No. 5, p. 917-921.
- F. Alajaji, P. N. Chen and Z. Rached, "Csiszár's Cutoff rates for the general hypothesis testing problem," IEEE transactions on Information Theory, Vol. 50, No. 4, p. 663-678.
- Ziad Rached, "Arbitrary Order Iterations," European International Journal of Science and Technology, vol. 2 No. 5, p 191-195.

## **Peer-reviewed Conference Proceedings**

- Z. Rached, F. Alajaji and L. L. Campbell, "Renyi's Entropy Rate for Discrete Markov Sources," Proc. CISS 99, March 17-19, Baltimore, MD, 1999.
- Z. Rached, F. Alajaji and L. L. Campbell, "On the Renyi Divergence for Finite Alphabet Markov Sources," Proc. ISITA 2000, November 5-8, Honolulu, Hawaii, 2000.
- F. Alajaji, P. N. Chen and Z. Rached, "On the Poor-Verdú Conjecture for the Reliability Function of Channels with Memory," Proc. ISIT 2001, June 24-29, Washington, DC, 2001.
- F. Alajaji, P. N. Chen and Z. Rached, "Csiszár's forward cutoff rate for testing between two arbitrary sources," ISIT 2002.
- Z. Rached, F. Alajaji and L. L. Campbell, "A formula of the divergence rate for a class of Markov sources," CISS 2002.
- Z. Rached, "Divergence Rate Between Stationary Gaussian Stochastic Processes," Proceedings of the first conference on Current Trends in the Theory and Applications of Computer Science, CTTACS, NDU, 28-29 February, 2008, pp 252-256.
- Khaldoun El-Khaldi, Ziad Rached and Elias Saleeby, "On the Positivity of Solutions of a System of Integrodifferential equations," Conference on Analysis, Computational Mathematics and Statistics, Notre Dame University, Lebanon, September 18-19, 2008.