

CURRICULUM VITAE

R. Marzouk

**Department of Mathematics, Faculty of Science,
Cairo University, Egypt**

Personal Details

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| Name | Radwa Marzouk |
| Nationality | Egyptian |
| Date of birth | 14/ 06 / 1977 |
| Place of birth | Giza/Egypt |
| Gender | Female |
| Degree | Assistant professor |
| General Specialization | Mathematics and Computer Science |
| Specific Specialization | Computer Science |
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| Status | Married |

Scientific Degrees

1. **B. Sc., Mathematics, 2000, Department of Mathematics, Faculty of Science, Cairo University, with grade "Very Good".**
2. **Pre M. Sc., 2001, in "Computer Science".**
3. **M. Sc., 2005, "Arabic Character Recognition", Computer Science, Department of Mathematics, Faculty of Science, Cairo University.**
4. **PhD., 2012, "Algorithms for complexity measures of periodic sequences over finite fields", Computer Science, Department of Mathematics, Faculty of Science, Cairo University.**

Publications

1. **Hassan Aly, Radwa Marzouk, and Wilfried Meidl, "On The Calculation of The Linear Complexity of Periodic Sequences", The 9th International Conference on Finite Fields and their Applications University College Dublin, Dublin, Ireland, July 13-17, 2009.**
2. **Radwa Marzouk and Arne Winterhof, "On the Pseudorandomness of Binary and Quaternary Sequences Linked by The Gray Mapping", Periodica Mathematica Hungarica Vol. 60 (1), 2010, pp. 13–23.**
3. **Zhixiong Chen, Xiaoni Du, and Radwa Marzouk "Trace representation of pseudorandom binary sequences derived from Euler quotients", <http://arxiv.org/abs/1408.2385>, AAEECC journal submitted, 2014.**
4. **Hassan Aly and Radwa Marzouk, "An algorithm for the k-error linear complexity of a binary sequence with period $2^n p^m$ ", IEEE Transactions On Information Theory submitted, 2014.**

Professional Hierarchy

1. **The previous job : A Demonstrator and Assistant in Computer Science at the Department of Mathematics, Faculty of Science, Cairo University.**
2. **The current job : A Lecturer in Computer Science at the Department of Mathematics, Faculty of Science, Cairo University.**

Skills

- Advanced computer skills (Word, Excel, PowerPoint etc)
- Courses In :
 - Cisco courses
 - 1- Cisco Certified Network Associate-CCNA
 - 2- Cisco Certified Network Professional-CCNP
 - Oracle Database10g
 - 1- SQL Fundamentals (Administration Track)
 - 2- Programming with PL/SQL
 - 3- Administration Workshop I
 - 4- Administration Workshop II
 - Oracle Database10g : Java Programming
 - OracleAS 10g R3 : Build Java EE Applications I
 - OracleAS 10g R3 : Oracle ADF for Forms / 4GL Developers
 - Magma
- Teaching Labs and Marking home works (Maple, Matlab Language, Operating system, prolog, C/C++ Programming , Java Programming, Visual Basic (VB), Network , HTML, Access, Oracle Database10g)

References

1. Professor Dr. Hassan Aly, Department of Mathematics, Faculty of Science, Cairo University, E-mail: h.aly@mu.edu.sa.
2. Professor Dr. Zhixiong Chen, Department of Mathematics Putian University, Putian, Fujian 351100, P. R. China, E-mail: ptczx@126.com
3. Professor Dr. Khaled M. El Sayed, Faculty of Computer science & Information, Cairo University, E-mail: khaledms@fci-cu.edu.eg.
4. Professor Dr. W. Meidl, Sabanci University, Orhanli, Tuzla, 34956 Istanbul, Turkey, E-mail: wmeidl@sabanciuniv.edu.

Research Interests

1. Sequences and their correlation properties.
2. Pseudorandom sequences.
3. Stream cipher.
4. Cryptography.
5. Finite Fields.
6. Discrete Mathematics.
7. Number Theory.
8. Coding Theory.
9. Combinatorics.

Teaching

1. Cryptography and Network Security.
2. Coding Theory.
3. Design and Analysis of Algorithms.
4. Data Structures.
5. Compiler Design.
6. Randomized Algorithms.
7. Java/C++.
8. Computer Graphics.
9. Combinatorics and Graph Theory.
10. Computer network.
11. Oracle Database10g.

Short Visits

- April- June 2009 to Linz University at RICAM

Conferences

- The 6th International Conference on Cryptology in Africa–Egypt (Africacrypt 2013).