

**ALINA OLTEANU**  
University of Montevallo  
Station 6480, Montevallo, AL 35115  
(205) 665-6475

## **EDUCATION**

### **Doctor of Philosophy in Computer Science, 2009**

Dissertation: "Network Security: Design, Analysis and Tradeoff Evaluation"  
The University of Alabama, Tuscaloosa, AL

### **Master of Science in Computer Science, 2007**

The University of Alabama, Tuscaloosa, AL

### **Master of Science in Applied Mathematics, 2005**

Polytechnic University of Bucharest, Bucharest, Romania

### **Bachelor of Science in Computer Science, 2003**

University of Bucharest, Bucharest, Romania

## **WORK EXPERIENCE**

### **Assistant Professor, 2019 – Present**

University of Montevallo  
Department of Biology, Chemistry and Mathematics, Montevallo, AL

### **Software Developer III Enterprise, 2016 – 2019**

UAB Health Systems, Birmingham AL

### **Software Consultant, 2014 – 2016**

NWN Corp, Doozer Software, Birmingham, AL

### **Assistant/Associate Professor, 2011 – 2014**

Spiru Haret University, Department of Mathematics and Computer Science, Bucharest, Romania

Classes taught (selection):

- Advanced Programming Techniques
- Computer Networks
- Cryptography and Security
- Programming and Algorithms

### **Software Consultant, 2009 – 2011**

Computer Technology Solutions, Birmingham, AL

### **Graduate Research/Teaching Assistant, 2005 – 2009**

The University of Alabama, Department of Computer Science, Tuscaloosa, AL

### **Computer Science Athletic Tutor, 2008**

The University of Alabama, Athletic Academic Programs, Tuscaloosa, AL

Classes tutored:

- Advanced Web Design with JavaScript (CS 205)
- Computerized MIS (CS 285)
- Information Systems (CS 466)
- Microcomputers in Consumer Services (CSM 445)
- Intermediate Algebra (MATH 100)
- Precalculus Algebra (MATH 112)

## PROFESSIONAL SERVICE

### Membership

- Member of the editorial board of ISRN Sensor Networks Journal, 2012 – 2014
- Member of the technical committee for the 6th International Workshop on Sensor Networks (SN 2013)

### Department level service, Department of Mathematics and Computer Science, Spiru Haret University

- Member of the graduation committee, Summer and Fall 2012
- Undergraduate study program coordinator for Computer Science, 2012 – 2014
- Sophomore/junior student advisor, 2012 – 2014

### Grant evaluator

- Evaluator for the Romanian National Council of Scientific Research, 2012 and 2014

### Reviewer for journals

- ISRN Sensor Networks
- Wiley Journal of Security and Communication Networks (SCN)
- EURASIP Journal on Wireless Communications and Networking (EURASIP JWCN)
- International Journal of Communication Systems (IJCS)
- European Journal of Operational Research (EJOR)
- IEEE Transactions on Multimedia (IEEE Trans. Multimedia)
- International Journal of Pervasive Computing and Communications (IJPCC)

### Reviewer for conferences/workshops

- International Workshop on Sensor Networks (SN 2013)
- IEEE Symposium on Computers and Communications (ISCC 2012)
- IEEE International Conference on Communications (ICC 2008 and 2009)
- IEEE International Conference on Intelligence and Security Informatics (ISI 2007)
- International Joint Conferences on Computer, Information, and Systems Sciences, and Engineering (CISSE 2007)
- Conference on Information Sciences and Systems (CISS 2007)
- Ubiquitous Computing Systems (UCS 2006)
- International Workshop on Wireless and Sensor Networks (WSNET 2006)

## AWARDS

### Outstanding Dissertation Award Nominee, 2010

Department of Computer Science, The University of Alabama

### W4-Net Best Researcher Award, 2009

For contributions to high quality research in security analysis, security modeling, and tradeoff analysis of security and performance  
The University of Alabama

### Outstanding Research by a Doctoral Student Award, 2009

Department of Computer Science, The University of Alabama

### Graduate Student Research and Travel Support Award, 2009

The University of Alabama

### Graduate Student Research and Travel Support Award, 2008

The University of Alabama

**Undergraduate Scholarship, 2003**

For academic achievement  
Polytechnic University of Bucharest, Bucharest, Romania

**Undergraduate Scholarship, 2001**

For academic achievement  
University of Bucharest, Bucharest, Romania

**CERTIFICATIONS AND PROFESSIONAL ASSOCIATIONS**

**Cisco Certified Network Associate (CCNA), Module 1, 2012**

Cisco Networking Academy

**Oracle Certified Professional Java 6.0 Programmer (OCPJP), 2011**

Oracle Certification Program

**Recognized as a member of UPE National Honor Society for Computer Science, 2008**

For academic achievement, scholastic reputation and creative abilities  
The University of Alabama

**Student member of the Association of Computing Machinery (ACM), 2008**

**Recognized as a member of Golden Key International Honor Society, 2008**

For outstanding academic achievement  
The University of Alabama

**Java Certified Programmer, 2004**

Cisco Systems, Bucharest, Romania

**PUBLICATIONS**

1. A. Olteanu, Y. Xiao, J. Liu, T.M. Chen, and C.L.P. Chen, "Non-intrusive Tracing in the Internet," (Wiley Journal of) Security and Communication Networks, 10.1002/sec.616, 2012.
2. A. Olteanu, Y. Xiao, F. Hu, B. Sun, and H. Deng, "A Lightweight Block Cipher Based on a Multiple Recursive Generator for Wireless Sensor Networks and RFID," Wireless Communications and Mobile Computing (WCMC), John Wiley & Sons, Vol. 11, Issue 2, pp. 254-266, 2011.
3. A. Olteanu and Y. Xiao, "Security Overhead and Performance for Aggregation with Fragment Retransmission (AFR) in Very High-Speed Wireless 802.11 LANs," IEEE Transactions on Wireless Communications, Vol. 9, No. 1, pp. 218-226, 2010.
4. A. Olteanu, Y. Xiao, K. Wu, and X. Du, "Weaving a Proper Net to Catch Large Objects in Wireless Sensor Networks," IEEE Transactions on Wireless Communications, Vol. 9, No. 4, pp. 1360-1369, 2010.
5. A. Olteanu, Y. Xiao, J. Liu, and T.M. Chen, "Studying Non-intrusive Tracing in the Internet," Proceedings of ICST QShine 2010.
6. A. Olteanu, Y. Xiao, and Y. Zhang, "Optimization between AES Security and Performance for 802.15.3 WPAN," IEEE Transactions on Wireless Communications, Vol. 8, pp. 6030-6037, 2009.

7. A. Olteanu and Y. Xiao, "Fragmentation and AES Encryption Overhead in Very High-Speed Wireless LANs," Proceedings of IEEE ICC, pp. 1-5, 2009.
8. A. Olteanu, Y. Xiao, K. Wu, and X. Du, "An Optimal Sensor Network for Intrusion Detection," Proceedings of IEEE ICC, pp. 1-5, 2009.
9. A. Olteanu, Y. Xiao, K. Wu and X. Du, "Weaving a Proper Net to Catch Large Objects," Proceedings of IEEE GLOBECOM, pp. 133-137, 2008.
10. A. Olteanu, Y. Xiao, F. Hu, and B. Sun, "A Lightweight Block Cipher Based on a Multiple Recursive Generator," Proceedings of IEEE GLOBECOM, pp. 1847-1851, 2008.
11. P.G. Bradford and A. Olteanu, "Issues in Simulation for Valuing Long-Term Forwards," Proceedings of the Third International Joint Conferences on Computer, Information, and System Sciences, and Engineering, pp. 394-398, 2007.

## PRESENTATIONS

1. "Network Security: Optimal Methods for Detection, Coverage and Encryption," Seminar of Applied and Computational Mathematics, College of Mathematics and Computer Science, Spiru Haret University, March 2013.
2. "Weaving a Proper Net to Catch Large Objects," IEEE GLOBECOM AHSN, New Orleans, LA, December 2008.
3. "A Lightweight Block Cipher Based on a Multiple Recursive Generator," IEEE GLOBECOM CCNS, New Orleans, LA, December 2008.
4. "Issues in Simulation for Valuing Long-Term Forwards," Third International Joint Conferences on Computer, Information, and System Sciences, and Engineering, Bridgeport, CT, December 2007.

## GRANTS

1. "Computer Science is Fun with Visual Programming", Google grant program "Computer Science for High-School" (CS4HS)", 2014, grant director, \$10,000.
2. "Primate-inspired Heterogeneous Mobile and Static Sensor Networks," The U.S. National Science Foundation, CCF-0829827 and CCF-0829828, 2008 to 2011, graduate student collaborator.
3. "Error-resistant, Accountable, RFID-assisted Wireless Sensor Networks for Elder Cardiac Telehealthcare," The U.S. National Science Foundation, CNS-0716211, 2007 to 2011, graduate student collaborator.
4. "Accountability at the Wireless Medium Access Control Layer," The U.S. National Science Foundation, CNS-0737325, 2008 to 2010, graduate student collaborator.