

Vassil Roussev

Director, GNOCIA
Professor of Computer Science
University of New Orleans

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Interests

Cyber security, privacy, digital forensics, distributed systems/cloud computing, HCI, CSCW

Appointments held

- 2017– *Director*, Greater New Orleans Center for Information Assurance (GNOCIA), University of New Orleans
- 2015– *Professor*, Computer Science, University of New Orleans
- 2011 *Visiting Professor*, Computer Science, Naval Postgraduate School
- 2009-15 *Associate Professor*, Computer Science, University of New Orleans
- 2006-16 *Director*, Networking & Security Lab (NSSAL), Computer Science, University of New Orleans
- 2003-09 *Assistant Professor*, Computer Science, University of New Orleans

Education

- 2003 PhD, Computer Science, University of North Carolina–Chapel Hill
- 1998 MS, Computer Science, University of North Carolina–Chapel Hill
- 1995 MS, Computer Science, Sofia University, Bulgaria
- 1994 BS, Computer Science, Sofia University, Bulgaria

Publications

BOOKS

- 2017 Roussev, V. “Digital Forensic Science: Issues, Methods, and Challenges”, Morgan & Claypool Publishers, 2017. ISBN: 978-1627059596 (paper), 978-1627054652 (ebook). (*in press*)

BOOK CHAPTERS & JOURNAL ARTICLES

- 2017 Ali-Gombe, A., Ahmed, I., Richard, G., Roussev, V., “Towards a More Dependable Hybrid Analysis of Android Malware Using Aspect Oriented Programming”, *Journal of Computer Virology and Hacking Techniques*, Springer, 2017. (*in press*)
- 2017 Ahmed, I., Roussev, V., “Analysis of Cloud Digital Evidence”, In *Security, Privacy, and Digital Forensics in the Cloud*, L. Chen, and H. Takabi (Eds.), IGI Global, 2017. (*in press*)
- 2016 Roussev, V., Ahmed, I., Barreto, A., McCulley, S., Shanmughan, V., “Cloud forensics–Tool development studies and future outlook”, *Journal of Digital Investigation*, 2016, Vol. 18, pp. 79-95. DOI: [10.1016/j.diin.2016.05.001](https://doi.org/10.1016/j.diin.2016.05.001).

- 2016 Roussev, V., Barreto, A., Ahmed, I., “API-based Forensic Acquisition of Cloud Drives”. In Peterson, G., Sheno, S. (Eds.), Research Advances in Digital Forensics XII, Springer, 2016, pp. 213-235. DOI: [10.1007/978-3-319-46279-0_11](https://doi.org/10.1007/978-3-319-46279-0_11).
- 2014 Roussev, V. “Digital Forensics”, In Computing Handbook, Third Edition: Two-Volume Set, A. Tucker, T. Gonzalez, H. Topi, J. Diaz-Herrera (Eds.), Vol. 2, Chapman and Hall/CRC, 2014, pp.56–1-29. ISBN: 978-1439898444.
- 2014 Brietinger, F., Stivaktakis, G., Roussev, V. “Evaluating detection error trade-offs for bitwise approximate matching algorithms”, Journal of Digital Investigation, 2014, Vol. 11(2), pp. 81-89. DOI: [10.1016/j.diin.2014.05.002](https://doi.org/10.1016/j.diin.2014.05.002).
- 2013 Ahmed, I., Zoranic, A., Javaid, S., Richard, G., Roussev, V. “Rule-based Integrity Checking of Interrupt Descriptor Table in Cloud Environments”. In Peterson, G., Sheno, S. (Eds.), Research Advances in Digital Forensics IX, Springer, 2013, pp. 305-328. DOI: [10.1007/978-3-642-41148-9_21](https://doi.org/10.1007/978-3-642-41148-9_21).
- 2013 Roussev, V., Quates, C., Martell, R., “Real-time Digital Forensics and Triage”, Journal of Digital Investigation, Sep 2013, Vol. 10(2), pp. 158-167. DOI: [10.1016/j.diin.2013.02.001](https://doi.org/10.1016/j.diin.2013.02.001).
- 2012 Roussev, V., “Managing Terabyte Scale Investigations with Similarity Digests”, In Peterson, G., Sheno, S. (Eds.), Research Advances in Digital Forensics VIII, Springer, 2012, pp. 19-34. DOI: [10.1007/978-3-642-33962-2_2](https://doi.org/10.1007/978-3-642-33962-2_2).
- 2010 Roussev, V., “Data Fingerprinting with Similarity Digests”, In Chow, K.; Sheno, S. (Eds.), Research Advances in Digital Forensics VI, Springer, 2010, pp. 207-226. doi: [10.1007/978-3-642-15506-2_15](https://doi.org/10.1007/978-3-642-15506-2_15)
- 2010 Marziale L., Movva S., Richard G., Roussev V., Schwiebert L., “Massively Threaded Digital Forensics Tools”, In Chang-Tsun Li (ed.), Handbook of Research on Computational Forensics, Digital Crime, and Investigation: Methods and Solutions. Information Science Publishing, 2010, pp.234-256. DOI: [10.4018/978-1-60566-836-9.ch010](https://doi.org/10.4018/978-1-60566-836-9.ch010)
- 2009 Roussev, V. “Hashing & Data Fingerprinting in Digital Forensics” IEEE Security and Privacy, Vol. 7(2), Mar-Apr 2009, pp.49-55. DOI: [10.1109/MSP.2009.40](https://doi.org/10.1109/MSP.2009.40).
- 2009 Roussev V., Wang L., Richard G., Marziale L., “A Cloud Computing Platform for Large-Scale Forensic Computing”. In Peterson G., Sheno S. (eds.), Research Advances in Digital Forensics V. Springer, 2009, pp.201-214. DOI: [10.1007/978-3-642-04155-6_15](https://doi.org/10.1007/978-3-642-04155-6_15).
- 2008 Roussev, V., Richard, G., Marziale, L. “Class-aware Similarity Hashing for Data Classification” In Ray, I., Sheno, S. (eds.), Research Advances in Digital Forensics IV. Springer, 2008, pp.101-113. DOI: [10.1007/978-0-387-84927-0_9](https://doi.org/10.1007/978-0-387-84927-0_9).
- 2007 Richard G., Roussev, V., Marziale, L. “In-place File Carving” In Craiger, P., Sheno, S. (eds.), Research Advances in Digital Forensics III, Springer, 2007, pp. 217-230. ISBN: 978-0-387-73741-6. DOI: [10.1007/978-0-387-73742-3_15](https://doi.org/10.1007/978-0-387-73742-3_15).
- 2007 Richard, G., Roussev, V., Marziale, L. “Forensic Discovery Auditing of Digital Evidence Containers”, Journal of Digital Investigation, (4)2, 2007. DOI: [10.1016/j.diin.2007.04.002](https://doi.org/10.1016/j.diin.2007.04.002).
- 2006 Richard, G., Roussev, V. “Next Generation Digital Forensics”, Communications of the ACM, Vol. 49(2), Feb 2006. DOI: [10.1145/1113034.1113074](https://doi.org/10.1145/1113034.1113074).
- 2006 Richard, G., Roussev, V. “Digital Forensics Tools: The Next Generation.” In Kanellis et al (ed.), Digital Crime and Forensic Science in Cyberspace, Idea Group Publishing, 2006, pp.75-90. ISBN: 1591408725.
- 2006 Richard, G., Roussev, V. “Toward Secure, Audited Processing of Digital Evidence: Filesystem Support for Digital Evidence Bags.” In Olivier, M., Sheno, S. (eds.), Research Advances in Digital Forensics II, Springer, 2006, pp.29-40. DOI: [10.1007/978-0-387-73742-3_15](https://doi.org/10.1007/978-0-387-73742-3_15).
- 2005 Chen, Y, Roussev, V., Richard, G., Gao, Y. “Content-Based Image Retrieval for Digital Forensics”.

In Pollitt, M, Sheno, S. (eds.), Research Advances in Digital Forensics. Springer, 2005, pp.271-282.
DOI: [10.1007/0-387-31163-7_22](https://doi.org/10.1007/0-387-31163-7_22)

- 2004 Gao, Y., Richard, G. Roussev, V. [Bluepipe: A Scalable Architecture for On-the-spot Digital Forensics](#), International Journal of Digital Evidence, Summer 2004, Volume 3(1).

REFEREED PROCEEDINGS

- 2016 Ahmed, I., Roussev, V., Johnson, W., Senthivel, S., Sudhakaran, S., “A SCADA System Testbed for Cybersecurity and Forensic Research and Pedagogy”, Second Annual Industrial Control System Security Workshop (ICSS’16), Dec, Los Angeles, CA, USA.
- 2016 Johnson, W., Luzader, A., Ahmed, I., Roussev, V., Richard, G., Lee, C., “Development of Peer Instruction Questions for Cybersecurity Education”, USENIX Advances in Security Education Workshop (ASE’16), Aug 2016, Austin, TX.
- 2016 Ali-Gombe, A., Richard, G., Ahmed, I., Roussev, V., “Don’t Touch that Column: Portable, Fine-Grained Access Control for Android’s Native Content Providers”, In the Ninth ACM Conference on Security and Privacy in Wireless and Mobile Networks (WiSec’16), July 2016, Darmstadt, Germany. DOI: [10.1145/2939918.2939927](https://doi.org/10.1145/2939918.2939927).
- 2016 Roussev, V., McCulley, “Forensic Analysis of Cloud-native Artifacts”, 3rd Annual Digital Forensic Research Conference Europe (DFRWS-EU), Mar 2016, Geneva, Switzerland. DOI: [10.1016/j.diin.2016.01.013](https://doi.org/10.1016/j.diin.2016.01.013).
- 2015 Aisha Ali-Gombe, Irfan Ahmed, Golden G. Richard III, Vassil Roussev, “OpSeq: Android Malware Fingerprinting”, Fifth Program Protection and Reverse Engineering Workshop (PPREW’15), December 2015, Los Angeles, CA, USA. DOI: [10.1145/2843859.2843860](https://doi.org/10.1145/2843859.2843860).
- 2015 Ahmed, I., Roussev, V., Gombe, A., “Robust Fingerprinting for Relocatable Code”, Fifth ACM Conference on Data and Application Security and Privacy (CODASPY), Mar 2015, San Antonio, TX. DOI: [10.1145/2699026.2699104](https://doi.org/10.1145/2699026.2699104).
- 2015 Roussev, V., “Building a Forensic Computing Language”, 48th Hawaii International Conference on System Sciences (HICSS), Jan 2015, Koloa, HI. DOI: [10.1109/HICSS.2015.617](https://doi.org/10.1109/HICSS.2015.617).
- 2014 Roussev, V., Ahmed, I., Sires, T., “Image-Based Kernel Fingerprinting”, 14th Annual Digital Forensic Research Conference (DFRWS), Aug 2014, Denver, CO. DOI: [10.1016/j.diin.2014.05.013](https://doi.org/10.1016/j.diin.2014.05.013).
- 2014 Breiting, F., Roussev, V., “Automated Evaluation of Approximate Matching Algorithms on Real Data”, First Annual Digital Forensic Research Conference – Europe (DFRWS-EU), pp.S10-17, May 2014, Amsterdam, The Netherlands. DOI: [10.1016/j.diin.2014.03.002](https://doi.org/10.1016/j.diin.2014.03.002).
- 2013 Ahmed, I., Richard, G., Zoranic, A., Roussev, V. “Integrity Checking of Function Pointers in Kernel Pools via Virtual Machine Introspection”, 16th Information Security Conference (ISC), Nov 2013, Dallas, TX. (*best paper award*)
- 2013 Breiting, F., Stivaktakis, G., Roussev, V., “Evaluating Detection Error Trade-offs for Bitwise Approximate Matching Algorithms”, Fifth International Conference on Digital Forensics & Cyber Crime (ICDF2C), Sep 2013, Moscow, Russia. (*best paper award*)
- 2013 Roussev, V., Quates, C., “File Fragment Encoding Classification—An Empirical Approach”, 13th Annual Digital Forensic Research Conference (DFRWS), pp.S69-77, Aug 2013, Monterey, CA. DOI: [10.1016/j.diin.2013.06.008](https://doi.org/10.1016/j.diin.2013.06.008).
- 2012 Roussev, V., Quates, C., “Content Triage with Similarity Digests: The M57 Case Study”, Twelfth Annual Digital Forensic Research Conference (DFRWS), pp. S60-68, Aug 2012, Washington, DC. DOI: [10.1016/j.diin.2012.05.012](https://doi.org/10.1016/j.diin.2012.05.012).

- 2011 Roussev, V. “An Evaluation of Forensics Similarity Hashes”, Eleventh Annual Digital Forensic Research Conference (DFRWS), pp. S34-S41, Aug 2011, New Orleans, LA.
DOI: [10.1016/j.diin.2011.05.005](https://doi.org/10.1016/j.diin.2011.05.005).
- 2011 Roussev, V., “Building Open and Scalable Digital Forensic Tools”, Sixth International Workshop on Systematic Approaches to Digital Forensic Engineering (IEEE/SADFE), May 2011, Oakland, CA.
DOI: [10.1109/SADFE.2011.3](https://doi.org/10.1109/SADFE.2011.3).
- 2010 Garfinkel S., Nelson, A., White, D., and Roussev, V. “Using purpose-built functions and block hashes to enable small block and sub-file forensics”, Tenth Annual Digital Forensic Research Conference (DFRWS), pp. S13-S23, Aug 2010, Portland, OR. DOI: [10.1016/j.diin.2010.05.003](https://doi.org/10.1016/j.diin.2010.05.003).
- 2009 Garfinkel S., Farrell P., Roussev V., Dinolt G., “Bringing Science to Digital Forensics with Standardized Forensic Corpora”, Ninth Annual Digital Forensic Research Conference (DFRWS), pp.2-11, Aug 2009, Montreal, Canada. (*best paper award*) DOI: [10.1016/j.diin.2009.06.016](https://doi.org/10.1016/j.diin.2009.06.016).
- 2009 Roussev V., Garfinkel S., “File Fragment Classification—The Case for Specialized Approaches”, Fourth International IEEE Workshop on Systematic Approaches to Digital Forensic Engineering, Apr 2009, Oakland, CA. DOI: [10.1109/SADFE.2009.21](https://doi.org/10.1109/SADFE.2009.21).
- 2009 Roussev, V. “Building a Better Similarity Trap with Statistically Improbable Features”, 42nd Hawaii International Conference on System Sciences(HICSS), IEEE, Jan 2009, pp.1-10.
DOI: [10.1109/HICSS.2009.97](https://doi.org/10.1109/HICSS.2009.97).
- 2008 Case, A., Cristina, A., Marziale, L., Richard, G., Roussev, V. “FACE: Automated Digital Evidence Discovery and Correlation”, Eighth Annual Digital Forensic Research Conference (DFRWS), pp. S65-S75, Aug 2008, Baltimore, MD. DOI: [10.1016/j.diin.2008.05.008](https://doi.org/10.1016/j.diin.2008.05.008).
- 2008 Roussev, V. Richard, G., Marziale, L. “Hash-based Classification of Data.” Fourth Annual IFIP WG 11.9 International Conference on Digital Forensics, Jan 2008, Kyoto, Japan. (*highest-ranked paper*)
- 2007 Roussev, V., Richard, G., Marziale, L. “Multi-Resolution Similarity Hashing”, Seventh Annual Digital Forensic Research Conference (DFRWS), pp. 105-114, Pittsburgh, PA, Aug 2007.
DOI: [10.1016/j.diin.2007.06.011](https://doi.org/10.1016/j.diin.2007.06.011).
- 2007 Marziale, L., Richard, G., Roussev, G. “Massive Threading: Using GPU to Increase the Performance of Digital Forensic Tools” Seventh Annual Digital Forensic Research Conference (DFRWS), pp. S73-81, Pittsburgh, PA, Aug 2007. (*highest-ranked paper*) DOI: [10.1016/j.diin.2007.06.014](https://doi.org/10.1016/j.diin.2007.06.014).
- 2006 Roussev, V., Chen, Y., Bourg, R., Richard, G. “md5bloom: Forensic Filesystem Hashing Revisited”, In Proceedings of the 2006 Digital Forensics Research Workshop (DFRWS), Elsevier, pp. 82-90, West Lafayette, IN, Aug 2006. DOI: [10.1016/j.diin.2006.06.012](https://doi.org/10.1016/j.diin.2006.06.012).
- 2006 Roussev, V., Priego, G., Richard, G., “TouchSync: Lightweight Synchronization for Ad-Hoc Mobile Collaboration”, 2006 IEEE International Symposium on Collaborative Technologies and Systems (CTS), pp.181-188, May 2006, Las Vegas, NV.
DOI: [10.1109/CTS.2006.67](https://doi.org/10.1109/CTS.2006.67).
- 2006 Roussev, V., Richard, G., Tingstrom, D. “dRamDisk: Efficient RAM Sharing on a Commodity Cluster”, 25th IEEE International Performance Computing and Communications Conference (IPCCC), Apr 2006, Phoenix, AZ. DOI: [10.1109/.2006.1629407](https://doi.org/10.1109/.2006.1629407).
- 2005 Roussev, V., Dewan, P. “Supporting High Coupling and User-Interface Flexibility”, Ninth European Conference on Computer-Supported Cooperative Work (ECSCW), pp.45-64, Sep 2005, Paris, France. DOI: [10.1007/1-4020-4023-7_3](https://doi.org/10.1007/1-4020-4023-7_3).
- 2005 Richard, G., Roussev, V. “Scalpel: A Frugal, High-Performance File Carver”, 2005 Digital Forensics Research Workshop (DFRWS), Aug 2005, New Orleans, LA.
- 2004 Roussev, V. “Abstraction Flexibility in a Collaborative Infrastructure”, International Conference

on Knowledge Sharing and Collaborative Engineering (KSCE), Nov 2004, St. Thomas, US Virgin Islands.

- 2004 Roussev, V., Richard, G. "Breaking the Performance Wall: The Case for Distributed Digital Forensics", 2004 Digital Forensics Research Workshop (DFRWS), Aug 2004, Baltimore, MD.
- 2003 Richard, G., Roussev, V., et al. "Bluepipe: Portable Tools for Minimally Invasive, On-the-Spot Computer Forensics Surveys", Digital Forensics Research Workshop (DFRWS), Aug 2003, Cleveland, OH.
- 2000 Roussev, V., Dewan, P., Jain, V., "Composable Collaboration Infrastructures Based on Programming Patterns", 2000 ACM Conference on Computer-Supported Cooperative Work (CSCW), pp.117-126, Dec 2000, Philadelphia, PA. DOI: [10.1145/358916.358982](https://doi.org/10.1145/358916.358982).
- 2000 Roussev, V., et al. "Integrating XML and Object-based Programming for Distributed Collaboration", IEEE International Workshops on Enabling Technologies for Collaborative Enterprises (WET-ICE), Jun 2000, Bethesda, MD. DOI: [10.1109/ENABL.2000.883739](https://doi.org/10.1109/ENABL.2000.883739).

OTHER MAJOR PUBLICATIONS

- 2014 Breitinger, F., Guttman, B., McCarrin, M., Roussev, V., "Approximate Matching: Definition and Terminology", NIST Special Publication 800-168. May 31, 2014. DOI: [10.6028/NIST.SP.800-168](https://doi.org/10.6028/NIST.SP.800-168).
- 2003 Roussev, V. "Flexible Sharing of Distributed Objects Based on Programming Patterns", Department of Computer Science, University of North Carolina, Chapel Hill, NC, 2003. Ph.D Thesis. Advisor: *Prasun Dewan*

OTHER PRESENTATIONS

- 2013 "Small Data Forensics", Security BSides New Orleans, May 25, 2013, New Orleans, LA
- 2013 "The Pros & Cons and the Ins & Outs of Pen Testing", ISACA New Orleans, Feb 2013, Metairie, LA
- 2013 NIST Approximate Matching Working Group, Mar 2013, Bethesda, MD
- 2011-12 Open Source Digital Forensics Conference, McLean, VA
- 2010 The Second Annual Northeast Digital Forensics Exchange (NeFX 2010), Washington DC
- 2010 Annual Scientific Meeting, American Academy of Forensic Sciences, Feb 22-17, 2010, Seattle, WA
- 2009 ARO Workshop on Digital Forensics, Sep 10-11, 2009, Arlington, VA
- 2007 NSA Center of Academic Excellence in Information Assurance PI meeting, Oct 2007, Albuquerque, NM
- 2007 IFIP 11.9 Digital Forensics Working Group 2007 Meeting, Jun 2007, Louisville, KY

SOFTWARE TOOLS

- sdhash Similarity hashing and fragment identification: sdhash.org
- zsniff Sniffer/extractor for deflate-coded data fragments: github.com/zsniff/zsniff
- mp3scalpel Extractor for mp3-encoded data.
- mrshash Multi-resolution hashing (replaced by sdhash)
- md5bloom Client/server tool for manipulating Bloom filters (subsumed by sdhash)
- mnr MapReduce framework for distributed digital forensic processing

FACE A framework for automated digital evidence discovery and correlation
TouchSync Ad-hoc lightweight synchronization of Bluetooth devices

Grants & contracts

As PI

- 2016-18 “Automated Platform for Cyber Security Learning and Experimentation (AutoCUE)”, \$300,000 PI: V. Roussev, National Science Foundation, Award #1623253.
- 2014-17 “Lightweight Environment for Network Security Education”, \$300,000 PI: V. Roussev, Co-PIs: I. Ahmed, G. Richard, National Science Foundation, Award #1419358.
- 2014 AWS in Education Grant, \$3,000 PI: V. Roussev.
- 2011-14 “Tools for Large-Scale Data Correlation”, \$441,000 PI: V. Roussev, Naval Postgraduate School.
- 2012-13 “High-Performance Infrastructure for Information Assurance Research and Education”, \$75,000 PI: V. Roussev, Co-PIs: G. Richard, J. Nino, LA Board of Regents (ranked #3).
- 2013 “Securing the Backdoor of Cloud Computing”, \$12,000 PI: V. Roussev, Office of Research, University of New Orleans.
- 2010-11 “Tools for Large-Scale Analysis of Cyber Forensics & Security”, \$140,000 PI: V. Roussev, Naval Postgraduate School.
- 2007-10 “Advanced Digital Forensic Processing of Large Data Sets”, \$104,412 PI: V. Roussev, LA Board of Regents RCS Subprogram. (ranked #1 (tie) out of 160 proposals).
- 2010 “File Type Classification of Forensic Data Samples”, \$28,500 PI: V. Roussev, Naval Postgraduate School.
- 2010 “Collaborative Visual Analytics for Large-Scale Cyber Security Analysis & Forensics”, \$15,000 PI: V. Roussev, Office of Research, University of New Orleans.
- 2009-10 “IASP Capacity Building: Network Penetration Testing”, \$27,000 PI: V. Roussev, Department of Defense.
- 2009 “Scalable Data Fingerprinting for Large Forensic Data Sets”, \$57,405 PI: V. Roussev, Office of Naval Research.
- 2009 “Security Assessment of Cloud Computing”, \$56,720 PI: V. Roussev, Co-PIs: G. Richard, D. Bilar, Space and Naval Warfare Systems Command (US Navy).
- 2008-09 “Dynamic Management of Security Policies for the METOC Data Bus”, \$69,920 PI: V. Roussev, Space and Naval Warfare Systems Command (US Navy).
- 2009 “Cyber Defense of Enterprise Networks”, \$6,500 PI: V. Roussev, Space and Naval Warfare Systems Command (US Navy).
- 2007-08 “Dynamic Policy Management System for Information Assurance”, \$145,000 PI: V. Roussev, Space and Naval Warfare Systems Command (US Navy).
- 2004 “Distributed Environment for Large-Scale Digital Forensic Investigations”, \$95,200, PI: V. Roussev, Sun Microsystems Academic Excellence Grant, Award: EDUD-7824-0501049-US.

As Co-PI

- 2015-17 “Peer Instruction for Cybersecurity Education”, \$300,000 PI: I. Ahmed, Co-PIs: V. Roussev, G. Richard, National Science Foundation (NSF); Award #1500101.
- 2016 “Silicon Mechanics Fifth Annual Research Cluster Grant”, \$100,000 PI: D. Chakravorty, Co-PIs: V. Roussev, C. Summa, S. Rick, Silicon Mechanics.
- 2015-16 “SCADA Testbed for Security and Forensics Research” \$96,300 PI: I. Ahmed, Co-PIs: V. Roussev, G. Richard, Department of Defense – Defense University Research Instrumentation Program (DURIP).
- 2015-16 “Automatic Run-time Mitigation of Kernel Exploits in Cloud Environments”, \$75,000 PI: I. Ahmed, Co-PIs: V. Roussev, G. Richard, Department of Defense (DoD).
- 2007-14 “The LONI Institute: Advancing Biology, Materials, and Computational Sciences for Research, Education, and Economic Development”, \$1,000,000, PI: S. Whittenburg, Co-PIs: V. Roussev, S. Winters-Hilt, LA Board of Regents P-KSFI Primarily Research Subprogram.
- 2011-12 “Cloud Environment Setup”, \$207,000, PI: S. Whittenburg, Co-PI: V. Roussev, US Space and Naval Warfare Systems Command.
- 2009-10 “A Laboratory for Next-Generation Information Assurance Instruction and Research”, \$112,400, PI: G. Richard, Co-PIs: V. Roussev, J. Nino, LA Board of Regents.
- 2009-10 “Information Assurance Scholarships Program at UNO”, \$60,000, PI: G. Richard, Co-PIs: V. Roussev, J. Nino, Department of Defense.
- 2008-09 “Information Assurance Scholarship Program at UNO”, Department of Defense, \$113,494, PI: G. Richard, Co-PIs: V. Roussev, J. Nino, Department of Defense.
- 2008 “Analysis of the Stennis Army Ammo Plant as a Multi-Agency Shared Services Center for Information Processing and Storage”, \$998,289, PI: K. R. Walsh, Co-PIs: V. Roussev et al., US Space and Naval Warfare Systems Command.
- 2008-09 “Information Assurance Distance Learning”, \$70,000, PI: M. Abdelguerfi, Co-PIs: V. Roussev, G. Richard. US Space and Naval Warfare Systems Command.

Teaching experience

UNDERGRADUATE COURSES

- Operating Systems
- Computer Networking and Telecommunications
- Network and System Administration
- Data Structures and Applications
- Undergraduate Seminar (public speaking & technical presentation)

GRADUATE COURSES

- Distributed Systems
- Cloud Computing

- Network Penetration Testing & Defense
- High-Performance Computing
- Human-Computer Interaction/User Interface Design
- Data Compression
- Distributed Collaboration

Professional service

- 2005-present Member, Board of Directors/Co-Founder, DFRWS.org (non-profit)
 2008-present Editor, Journal of Digital Investigation (DIIN)
 2014-present Editor, Journal of Digital Forensics, Security and Law (JDFSL)

MEMBER, ORGANIZING COMMITTEE

- 2005-16 Annual Digital Forensic Research Conference (DFRWS), including:
 Conference Chair (2011), Vice-Chair (2010, 2015), TPC Chair (2007)
 2014-16 European Digital Forensic Research Conference (DFRWS-EU)

MEMBER, TECHNICAL PROGRAM COMMITTEE

- 2005-16 Annual Digital Forensic Research Conference (DFRWS)
 2014-16 Annual Digital Forensic Research Conference – Europe (DFRWS-EU)
 2006-16 IFIP 11.9 Working Group International Conference on Digital Forensics (ICDE)
 2006-14 International Annual Workshop on Digital Forensics & Incident Analysis (WDFIA)
 2012-16 International Workshop on Digital Forensics (WSDF)
 2013-15 International Conference on Digital Forensics & Cyber Crime (ICDF2C)
 2012-13 International Conference on Digital Forensics and Investigation (ISCDFI)
 2012-13 Annual ISSA Conference
 2005-11 IEEE International Workshop on Systematic Approaches to Digital Forensic Engineering (SADFE)
 2010 The ACM Northeast Digital Forensics Exchange (NeFX)
 2005-09 The International Symposium on Collaborative Technologies and System (CTS)

REVIEWER

- 2008-16 IEEE Transactions on Information Forensics & Security
 2013 Annals of Telecommunications/Annales des Télécommunications
 2013 Computers and Security
 2012 IEEE Internet Computing
 2012 Journal of Parallel and Distributed Computing
 2010 Knowledge-Based Systems (Elsevier)

- 2009-10 IEEE Globecom, 2009-10
- 2000-06 ACM Computer-Supported Cooperative Work (CSCW)
- 2004-06 Conference on Human Factors in Computing Systems (CHI)
- 2003-05 Journal of CSCW (JCSCW)
- 2004 Transactions on Computer-Human Interaction (TOCHI)