

CURRICULUM VITAE

Diomidis Spinellis

Professor of Software Engineering

Department of Management Science and Technology

Athens University of Economics and Business

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1 Personal and Contact Details

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Professor of Software Analytics (part-time appointment)
Department of Software Technology
Faculty of Electrical Engineering and Computer Science
Delft University of Technology
Delft, Netherlands

2 Education

- Ph.D. in Computer Science, Imperial College London, UK. 1990–1994.
- M.Eng. degree in Software Engineering (First Class Honours) Imperial College London. 1986–1990.
- Executive Education: Leading, Innovating and Negotiating. Harvard Kennedy School. May/June 2010.
- Fluent in Greek (C2), English (C1), and German (B2).

3 Research Interests

- Software engineering: analytics, tools, and methods
- Big data processing and machine learning applications
- IT security

4 Honours, Awards, Distinctions

- Excellence in teaching award for the academic year 2022–2023. Athens University of Economics and Business. February 2024.
- «Οπτε\n Ecosystem Award 2023» at the practitioner conference Οπτε\n Conf for the long and continuous fostering of the Greek Technical Ecosystem.
- ACM Distinguished Speaker, 2023–.
- “Distinguished Reviewer Award” as a program committee members at the *2023 International Conference on Software Engineering (ICSE '23)* technical track.
- “Distinguished Paper Award” for the conference paper: Stefanos Chaliasos, Thodoris Sotiropoulos, Diomidis Spinellis, Arthur Gervais, Benjamin Livshits, and Dimitris Mitropoulos. Finding typing compiler bugs. In *Proceedings of the 43rd ACM SIGPLAN Conference on Programming Language Design and Implementation, PLDI'22*. ACM, June 2022.
- “Best Artifact Award” for the above PLDI'22 paper.
- Most Influential Paper: “GHTorrent: Github’s data from a firehose” by Georgios Gousios and Diomidis Spinellis (MSR 2012) for conceiving and maintaining the GHTorrent archive, extensively leveraged by the MSR community. Mining Software Repositories conference, 2022.
- “Distinguished Contributor” (Chartered member), IEEE Computer Society, 2022.

- “Distinguished Artifact Award” for the conference paper: Thodoris Sotiropoulos, Stefanos Chaliasos, Vaggelis Atlidakis, Dimitris Mitropoulos, and Diomidis Spinellis. Data-oriented differential testing of object-relational mapping systems. In *ICSE '21: 43rd International Conference on Software Engineering*, 2021.
- Excellence in teaching award for the academic year 2018–2019. Athens University of Economics and Business. January 2020.
- “ACM SIGSOFT Distinguished Paper Award” for the conference paper: Zoe Kotti and Diomidis Spinellis. Standing on Shoulders or Feet? The Usage of the MSR Data Papers. *MSR '19: Proceedings of the 16th International Conference on Mining Software Repositories*, 2019.
- “Certificate of Appreciation” for serving as a mentor during Google Summer of Code 2018.
- “Best Data Showcase Award” for the conference paper: Antonios Gkortzis, Dimitris Mitropoulos, and Diomidis Spinellis. VulinOSS: A dataset of security vulnerabilities in open-source systems. *MSR '18: Proceedings of the 15th International Conference on Mining Software Repositories*, 2018.
- ACM SIGSOFT International Symposium on the Foundations of Software Engineering “Certificate of Appreciation” for “Outstanding Service on the Organization Committee as Demonstration Track Co-Chair”, 2016.
- IEEE Computer Society “Certificate of Appreciation”, “In recognition of your contribution as Associate Editor for *IEEE Transactions on Emerging Topics in Computing*”, 2016.
- “Best Data Showcase Award” for the conference paper: Diomidis Spinellis. A Repository with 44 Years of Unix Evolution. *MSR '15: Proceedings of the 12th Working Conference on Mining Software Repositories*, 2015.
- IEEE Computer Society “Certificate of Appreciation”, “In recognition of his contributions on behalf of the Computer Society’s Transformation Initiative as Chair of the Ad Hoc Committee on Professional Education and Training”, 2014.
- IEEE Computer Society “Golden Core” award, 2013.
- “Highly Commended Paper” award in Emerald’s Literati Network “Awards for Excellence 2012” for the publication: Dimitris Mitropoulos, Vassilios Karakoidas, Panagiotis Louridas and Diomidis Spinellis. Countering code injection attacks: a unified approach. *Information Management and Computer Security*, 19(3):177–194, 2011.
- Listed in the “Highly Cited Greek Scientists” database <https://sites.google.com/site/highlycited/>. The database covers all scientific fields and includes 137 Greek scientists who have published as first or last author at least one scientific work (paper, book, or other) that has received over 1000 citations in the scientific literature, a landmark that, according to the web site, is very difficult to achieve even among excellent scientists.
- *IEEE Software* Certificate of Appreciation for guest editing the July/August 2009 issue on domain-specific languages.
- Prize at the scientific experiment competition “Wizards of Science 2009” organized on February 14, 15th 2009 by the CAIDA non-profit organization and the Eugenides Foundation for the entry titled “The Information Train.”
- “Highly Commended Paper” award in Emerald’s “Literati Network Awards for Excellence 2008” for the publication: Vasileios Vlachos and Diomidis Spinellis. A P proactive Malware Identification System based on the Computer Hygiene Principles. *Information Management and Computer Security*, 15(4):295–312, 2007.
- *IEEE Software* Certificate of Appreciation for guest editing the September/October 2008 issue on software development tools.
- Software Development Productivity Award in the “Technical Books” category for the book *Code Quality: The Open Source Perspective* (Addison-Wesley, 2006). March 2007.
- ACM Computing Reviews. Featured Reviewer. August 2006.
- Software Development Productivity Award in the “Technical Books” category for the book *Code Reading: The Open Source Perspective* (Addison-Wesley, 2003). March 2004.
- Best refereed paper award for the work: Giorgos Gousios and Diomidis Spinellis. A comparison of

portable dynamic web content technologies for the apache web server. In *Proceedings of the 3rd International System Administration and Networking Conference SANE 2002*, pages 103–119, Maastricht, The Netherlands, May 2002.

- Winner of the Usenix Association (with assistance of Compaq Research) Open-Source Project contest, 2000.
- Winning entries in the International Obfuscated C Code Contest (IOCCC). 1988, 1990, 1991, 1996.
- Among the co-recipients of the Lifetime Achievement Award of the Usenix Association for contribution to the Computer Science Research Group of the University of California at Berkeley. 1993.
- DTI (British Department of Trade and Industry, UK) research bursary. 1993.
- Three year SERC (British Science and Engineering Research Council) fee award for research leading to the Ph.D. degree in Computer Science. 1990.
- Addison-Welsey Prize in Computer Science for Excellence in Academic Achievement. 1990.
- Winner, USENET smallest self-replicating ANSI C program contest. 1988.
- Winning team, Imperial College ACM Prolog Programming Contest. 1987.

5 Teaching Experience

Developed and taught 14 undergraduate courses and 9 postgraduate courses. Supervised to successful completion 9 PhD theses. Currently supervising 4 PhD students. External member in 22 PhD thesis supervision or examination committees.

6 Scientific, Professional, and Technical Activities

6.1 Memberships of Professional and Learned Societies

- Senior member, ACM.
- Senior member, IEEE.
- Member, IEEE Computer Society.
- Member, USENIX Association.
- Member, Greek Computer Society.

6.2 Editorial Board Member

- Proceedings of the ACM on Software Engineering. Member of the Advisory Board, 2023–.
- IEEE Software. Member of the editorial board, editor of the “Adventures in Code” column, 2023–.
- IEEE Press. Member of the Editorial Board, 2019–2024.
- Journal of Systems and Software. Editorial Board Advisor, 2019–.
- IEEE Transactions on Emerging Topics in Computing. Associate Editor, 2013–2015.
- IEEE Software. Editor in Chief, 2015–2018. Editor in Chief Emeritus, 2019–.
- IEEE Software. Member of the editorial board, editor of the “Tools of the Trade” column, 2005–2014.
- Journal in Computer Virology. (Springer). Member of the editorial board, 2004–2020.
- Recent Patents on Engineering (Bentham Science). Member of the editorial board, 2006–2014.
- Guest editor (with Jonathan Sprinkle, University of Arizona, Marjan Mernik University of Maribor, Juha-Pekka Tolvanen, MetaCase) IEEE Software” theme issue “Domain Specific Modelling”. July/August 2009.
- Guest editor (with Arthur Ryman, IBM, and Simon Helsen, SAP) “IEEE Software” theme issue “Software Development Tools”. September 2008.
- Guest editor (with C. Tarantilis and M. Gendreau) IEEE Intelligent Systems theme issue “Advanced Heuristics in Transportation and Logistics”. July 2005.

- Guest editor (with Clemens Szyperski, Microsoft Research) “IEEE Software” theme issue “Developing with Open Source Software”. January 2004.

6.3 Service in Conference Committees

1. Organizing Committee member. (Awards co-chair) *49th IEEE/ACM International Conference on Software Engineering (ICSE 2027)*. Dublin, Ireland. May 2027.
2. Programme Committee member. *48th IEEE/ACM International Conference on Software Engineering (ICSE 2026)*. Rio De Janeiro, Brazil. April 2026.
3. Programme Committee member. *33rd ACM International Conference on the Foundations of Software Engineering (FSE '25)*. Trondheim, Norway. June 2025.
4. Programme Committee member. *4th International Conference on AI Engineering – Software Engineering for AI (CAIN 2025)*. Ottawa, Canada. April 2025.
5. Programme Committee member. *22nd IEEE/ACM International Conference on Mining Software Repositories (MSR 2025) — Technical Track*. Ottawa, Canada. April 2025.
6. Programme Committee member. *28th Panhellenic Conference on Informatics (PCI 2024)*. Athens, Greece. December 2024.
7. Programme Committee member. *1st ACM International Conference on Alware*. Porto de Galinhas, Brazil. July 2024.
8. Programme Committee member. *46th IEEE/ACM International Conference on Software Engineering (ICSE 2024)*. Lisbon, Portugal. May 2024.
9. General Chair. *21st IEEE/ACM International Conference on Mining Software Repositories (MSR 2024)*. Lisbon, Portugal. May 2024.
10. Programme Committee member. *Leading and managing in the digital era: Shaping the future of work and business education (LMDE)*. Athens, Greece. June 2023.
11. Programme Committee member. *45th IEEE/ACM International Conference on Software Engineering (ICSE 2023)*. Melbourne, Australia. May 2023.
12. Programme Committee chair. *20th IEEE/ACM International Conference on Mining Software Repositories (MSR 2023)*, Vision and Reflection track. Melbourne, Australia. May 2023.
13. Programme Committee member. *20th IEEE/ACM International Conference on Mining Software Repositories (MSR 2023) — Mining Challenge Track*. Melbourne, Australia. May 2023.
14. Steering Committee member. *IEEE/ACM International Conference on Mining Software Repositories (MSR)*. 2022–2027.
15. Programme Committee member. *26th Panhellenic Conference on Informatics (PCI 2022)*. Athens, Greece. November 2022.
16. Programme Committee member. *ACM SIGPLAN conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH '22)*, Onward! Essays track. Auckland. December 2022.
17. Programme Committee member. *30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE '22)*. Singapore. November 2022.
18. Programme Board member. *44th IEEE/ACM International Conference on Software Engineering (ICSE 2022)*. Pittsburgh, PA, USA. May 2022.
19. Programme Committee member. *31st ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2022)*. Online. (Originally planned for Daejeon, South Korea). July 2022.
20. Programme Committee member. *25th Panhellenic Conference on Informatics (PCI 2021)*. Volos, Greece. November 2021.
21. Distinguished Papers Committee member. *OOPSLA: Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA 2021)*. Chicago, IL, USA. October 2021.
22. Review Committee member. *OOPSLA: Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA 2021)*. Chicago, IL, USA. October 2021.
23. General Chair. *29th ACM Joint European Software Engineering Conference and Symposium on the*

- Foundations of Software Engineering (ESEC/FSE 2021)*. Athens, Greece. August 2021.
24. Programme Committee member. *18th IEEE/ACM International Conference on Mining Software Repositories (MSR 2021)*. Madrid, Spain. May 2021.
 25. Programme Committee member. *20th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM 2020)*, New Ideas and Emerging Results (NIER) track. Adelaide, Australia. September 2020.
 26. Programme Committee member. *28th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE '20)*. Sacramento, California. November 2020.
 27. Programme Committee member. *24th Panhellenic Conference on Informatics (PCI 2020)*. Online. November 2020.
 28. Programme Committee chair. *17th IEEE/ACM International Conference on Mining Software Repositories (MSR 2020)*, Data Challenge track. Seoul, Korea. May 2020.
 29. Programme Board member. *42nd IEEE/ACM International Conference on Software Engineering (ICSE 2020)*. Seoul, Korea. May 2020.
 30. Programme Committee member. *24th International Conference on Evaluation and Assessment in Software Engineering (EASE 2020)*. Vision Papers and Emerging Results track. Trondheim, Norway. April 2020.
 31. Programme Committee member. *27th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE '19)*. Tallinn, Estonia. August 2019.
 32. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2019)*, Doctoral Symposium track. Montreal, Canada. May 2019.
 33. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2019)*, Software Engineering in Practice (SEIP) track. Montreal, Canada. May 2019.
 34. Programme Committee member. *22nd Panhellenic Conference on Informatics (PCI 2018)*. Athens, Greece. November 2018.
 35. General Chair. *11th Seminar on Advanced Techniques and Tools for Software Evolution (SATToSE 2018)*. Athens, Greece. July 2018.
 36. Steering Committee member. *ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)*. 2018–2021.
 37. Programme Committee member. *34th IEEE International Conference on Software Maintenance and Evolution (ICSME 2018)*, New Ideas and Emerging Results (NIER) track. Madrid, Spain. September 2018.
 38. Programme Committee member. *15th IEEE/ACM International Conference on Mining Software Repositories (MSR 2018)*. Gothenburg, Sweden. May 2018.
 39. Programme Committee member. *14th International Conference on Open Source Software Systems (OSS 2018)*. Athens, Greece. June 2018.
 40. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2018)*, Software Engineering in Practice (SEIP) track. Gothenburg, Sweden. May 2018.
 41. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2018)*, Technical Briefings (TB) track. Gothenburg, Sweden. May 2018.
 42. Programme Committee member. *1th International Symposium on Empirical Software Engineering and Measurement (ESEM 2017)*, short-papers and posters track. Toronto, Canada. November 2017.
 43. Programme Committee member. *11th Joint Meeting of the European Software Engineering Conference and the ACM SIGSOFT Symposium on the Foundations of Software Engineering (ESEC/FSE 2017)*. Paderborn, Germany. September 2017.
 44. Programme Committee member. *33rd IEEE International Conference on Software Maintenance and Evolution (ICSME 2017)*, J1C2 track. Shanghai, China. September 2017.
 45. Programme Committee member. *21st Panhellenic Conference on Informatics (PCI 2017)*. Larisa, Greece. September 2017.
 46. Programme Committee member. *14th IEEE/ACM International Conference on Mining Software Repos-*

- itories (MSR 2017)*. Buenos Aires, Argentina. May 2017.
47. Programme Committee member. *13th International Conference on Open Source Software Systems (OSS 2017)*. Buenos Aires, Argentina. May 2017.
 48. Programme Committee member. *First International Workshop on Technical Debt Analytics (TDA 2016)*, in conjunction with the 23rd Asia-Pacific Software Engineering Conference (APSEC 2016). Hamilton, New Zealand. December 2016.
 49. Programme Committee chair. *International Symposium on the Foundations Software Engineering (FSE 2016)*, Demonstration Track. Seattle, WA. November 2016.
 50. Steering Committee member. *IEEE/ACM International Conference on Mining Software Repositories (MSR)*. 2016–2020.
 51. Programme Committee member. *12th International Conference on Open Source Software Systems (OSS 2016)*. Gothenburg, Sweden. May 2016.
 52. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2016)*, Software Engineering in Practice (SEIP) track. Austin, Texas. May 2016.
 53. Programme Committee member. *13th IEEE/ACM International Conference on Mining Software Repositories (MSR 2016)*. Austin, Texas. May 2016.
 54. Programme Committee member. *24th IEEE International Conference on Program Comprehension, Tools Demo Track*. Austin, Texas. May 2016.
 55. Programme Committee member. *20th Panhellenic Conference on Informatics (PCI 2016)*. Patra, Greece. November 2016.
 56. Programme Committee member. *6th International e-Democracy Conference on “e-Democracy — Security, Privacy and Trust in a Digital World”*. Athens, Greece. December 2015.
 57. Programme Committee member. *19th Panhellenic Conference on Informatics (PCI 2015)*. Athens, Greece. October 2015.
 58. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2015)*, Software Engineering in Practice (SEIP) track. Florence, Italy. May 2015.
 59. Programme Committee member. *11th International Conference on Open Source Systems (OSS 2015)*. Florence, Italy. May 2015.
 60. Programme Committee member. *22nd International Conference on Software Analysis, Evolution (SANER 2015)* (former CSMR-WCRE). Québec, Canada. March 2015.
 61. Programme Committee member. *18th Panhellenic Conference on Informatics (PCI 2014)*. Athens, Greece. October 2014.
 62. Programme Committee member. *8th ACM/IEEE International Symposium of Empirical Software Engineering and Measurement (ESEM 2014)*, Industry Track. Torino, Italy. September 2014.
 63. Programme Committee member. *10th International Conference on Open Source Systems (OSS 2014)*. San José, Costa Rica. May 2014.
 64. Programme Committee member. *Joint Conference on Software Maintenance and Reengineering (CSMR) and Working Conference on Reverse Engineering (WCRE) (CSMR-WCRE)*, Early Research Achievements (ERA) track. Antwerp, Belgium. February 2014.
 65. Programme Committee member. *5th International e-Democracy Conference on “e-Democracy — Security, Privacy and Trust in a Digital World”*. Athens, Greece. December 2013.
 66. Programme Committee member. *17th Panhellenic Conference on Informatics (PCI 2013)*. Thessaloniki, Greece. September 2013.
 67. Programme Committee member. *4th Workshop on Academic Software Development Tools and Techniques (WASDeTT 2014)*, collocated with ECOOP 2013. Montpellier, France. July 2013.
 68. Programme Committee member. *9th International Conference on Open Source Systems (OSS 2013)*. Koper/Capodistria, Slovenia. June 2013.
 69. Programme Committee member. *17th European Conference on Software Maintenance and Reengineering (CSMR 2013)*. Genova, Italy. March 2013.
 70. Programme Committee member. *6th International Workshop on Foundations and Techniques for Open Source Software Certification (OpenCert 2012)*. Thessaloniki, Greece. October 2012.

71. Programme Committee member. *16th Panhellenic Conference on Informatics (PCI 2012)*. Peiraias, Greece. October 2012.
72. Programme Committee member. *8th International Conference on Open Source Systems (OSS 2012)*. Hammamet, Tunisia. September 2012.
73. Programme Committee member. *11th International Conference on Mobile Business (ICMB 2012)*. Delft, The Netherlands. June 2012.
74. Programme Committee member. *Workshop on Reusing Open-Source Software Components (ROSS)* co-located with ACM SigSoft CompArch 2012. Bertinoro, Italy. June 2012.
75. Programme Committee member. *16th European Conference on Software Maintenance and Reengineering (CSMR 2012)*. Szeged, Hungary. March 2012.
76. Programme Committee member. *7th International Conference on Open Source Systems (OSS 2011)*. Salvador, BA, Brazil. October 2011.
77. Programme Committee member. *15th Panhellenic Conference on Informatics (PCI 2011)*. Kastoria, Greece. September 2011.
78. Programme Committee member. *Programming Languages (PL) Track, 26th ACM Symposium on Applied Computing (SAC 2011)*. Taichung, Taiwan. March 2011.
79. Programme Committee member. *14th Panhellenic Conference on Informatics (PCI 2010)*. Tripoli, Greece. September 2010.
80. Programme Committee member. *9th International Conference on Mobile Business (ICMB 2010)*. Athens, Greece. July 2010.
81. Programme Committee member. *6th International Conference on Open Source Systems (OSS 2010)*. Notre Dame, IN, USA. May–June 2010.
82. Programme Committee member. *IEEE/ACM New Ideas and Emergent Results Track (NIER), 32nd ACM/IEEE International Conference on Software Engineering (ICSE 2010)*. Cape Town, South Africa. May 2010.
83. Programme Committee member. *Programming Languages (PL) Track, 25th ACM Symposium on Applied Computing (SAC 2010)*. Sierre, Switzerland . March 2010.
84. Programme Committee member. *14th European Conference on Software Maintenance and Reengineering (CSMR 2010)*. Madrid, Spain. March 2010.
85. Programme Committee member. *4th International Symposium on Information Security (IS '09)*. Vilamoura, Algarve, Portugal. November 2009.
86. Programme Committee member. *13th Panhellenic Conference on Informatics (PCI '2009)*. Corfu, Greece. September 2009.
87. Programme Committee chair. *Mediterranean Conference on Information Systems (MCIS 2009)*. *Free, Libre and Open Source Software and use in the Mediterranean region* track. Athens, Greece. September 2009.
88. Programme Committee member. *23rd European Conference on Object Oriented Programming (ECOOP 2009)*. Genova, Italy. June 2009.
89. Programme Committee member. *IFIP WG 2.13 Conference on Free/Open Source Software (F/OSS 2009)*. Skovde, Sweden. June 2009.
90. Programme Committee member. *Second International Workshop on Free/Libre/Open Source Software Systems (FLOSS)*. ICSE 2009, Vancouver, BC, Canada. May 2009.
91. Programme Committee member. *2009 ACM Symposium on Applied Computing: Programming Languages (PL) Track*. Honolulu, Hawaii. March 2009.
92. Programme Committee member. *4nd International Workshop on Public Data about Software Development (WoPDaSD 2009)*. Skovde, Sweden. March 2009.
93. Programme Committee member. *13th European Conference on Software Maintenance and Reengineering (CSMR 2009)*. Kaiserslautern, Germany. March 2009.
94. Programme Committee member. *4th European Conference on Computer Network Defense (EC2ND)*. Dulin, Ireland. December 2008.
95. Programme Committee member. *3rd International Symposium on Information Security (IS'08)*. Mon-

- terrey, Mexico. November 2008
96. Programme Committee member. *3rd International Annual Workshop on Digital Forensics & Incident Analysis (WDFIA 2008)*. Malaga, Spain. October 2008.
 97. Programme Committee member. *3rd International Workshop on Public Data about Software Development (WoPDaSD 2008)*. Milan, Italy. September 2008.
 98. Programme Committee member. *International Conference on Open Source Systems*. Milan, Italy. September 2008.
 99. Programme Committee member. *12th Panhellenic Conference on Informatics (PCI '2008)*. Samos, Greece. August 2008.
 100. Programme Committee member. *AISEW 2008: Artificial Intelligence Techniques in Software Engineering Workshop*, collocated with the 18th European Conference on Artificial Intelligence. Patras, Greece, 22 July 2008.
 101. Programme Committee member. *International Workshop on Advanced Software Development Tools and Techniques (WASDeTT 2018)*, collocated with ECOOP 2008. Paphos, Cyprus. July 2008.
 102. Programme Committee member. *12th European Conference on Software Maintenance and Reengineering (CSMR 2008)*. Athens, Greece. April 2008.
 103. Programme Committee member. *3rd European Conference on Computer Network Defense (EC2ND)*. ICS-FORTH, Crete, Greece. October 2007.
 104. Programme Committee member. *Second Annual Workshop on Digital Forensics & Incident Analysis*. Samos, Greece. August 2007.
 105. Programme Committee member. *Second International Workshop on Public Data about Software Development (WoPDaSD 2007)*. Limerick, Ireland.
 106. Programme Committee member. *International Conference on Global Software Engineering (ICGSE) 2007*. Munich, Germany. August 2007.
 107. Programme Committee member. *11th Panhellenic Conference on Informatics (PCI '2007)*. Patras, Greece. May 2007.
 108. Programme Committee member. *Libre Software as a Matter of Research* workshop, held in conjunction with *FOSDEM 2007*. Brussels, Belgium. February 2007.
 109. Programme Committee member. *First International Workshop on Global Software Development for the Practitioner, GSD 2006*, held in conjunction with the *28th International Conference and Software Engineering 2006*. Shanghai, China. 23 May 2006.
 110. Programme Committee member. *10th Panhellenic Conference on Informatics (PCI '2005)*. Volos, Greece. November 2005.
 111. Programme Committee member. *Public Key Infrastructure: First European PKI Workshop: Research and Applications, EuroPKI 2004*. Samos, Greece. June 2004.
 112. Programme Committee member. *ETHICOMP-2004 — Challenges for the Citizen of the Information Society*. Syros, Greece. April 2004.
 113. Programme Committee chair. *ACM Symposium on Applied Computing 2004, Track on Ubiquitous Computing Applications*. Nicosia, Cyprus. March 14–17, 2004.
 114. Programme Committee chair. *CMSD-2003 — International Conference on Cross-Media Service Delivery*. Santorini, Greece. May 2003.
 115. Programme Committee member. *18th IFIP International Information Security Conference*. Athens, Greece. May 2003.
 116. Programme Committee member. *International Conference on Production System Design, Supply Chain Management and Logistics*. Miedzyzdroje, Poland. October 23–25, 2002.

6.4 Other Professional Society Service

- Chair of the IEEE Computer Society Magazine Operations Committee, 2020, 2021.
- Member of the *IEEE Open Journal of the Computer Society* Editor in Chief Search and Appointment Committee, 2019.

- Representative of the Athens University of Economics and Business at the General Assembly of the Greek Open Technologies Alliance (GFOSS), member of the Board (2008–2009, 2011–), and Board President (2015–2021).
- Member of the *IEEE Transactions on Emerging Topics in Computing* Editor in Chief Reappointment Committee, 2013.
- Member of the IEEE Center for Secure Design Steering Committee, 2014.
- Chair of the IEEE Computer Society Educational Activities Budget Review Committee, 2014.
- Chair of the *IEEE Security & Privacy* Magazine Editor in Chief Reappointment Committee, 2013.
- Member of the IEEE Computer Society Board of Governors, 2013–2015.
- Member of the IEEE Computer Society Digital Library Operations Committee, 2013–.
- Member of the *IEEE Cloud Computing* Magazine Editor in Chief Search and Appointment Committee, 2013.

6.5 Selected Open Source Software Development

The following is a list of software designed, implemented, and made available as open source software.

Alexandria3k is a Python package that supplies a library and a command-line tool providing efficient relational query access to several large scientific publication open data sets, including Crossref, PubMed, ORCID, DataCite, and US patents. Data are decompressed on the fly, thus allowing the package’s use even on storage-restricted laptops.

dgsh The directed graph shell, provides an expressive way to construct sophisticated and efficient big data processing pipelines using existing Unix tools as well as custom-built components. It is a Unix-style shell allowing the specification of pipelines with non-linear scatter-gather operations. These form a directed acyclic process graph, which is typically executed by multiple processor cores, thus increasing the operation’s processing throughput.

UMLGraph allows the declarative specification and drawing of a number of UML diagrams. My *IEEE Software* article titled “On the declarative specification of models” (March/April 2003) explains the rationale behind this approach. In addition, the UMLGraphDoc doclet included in the software’s distribution automatically adds UML diagrams to javadoc documentation.

CScout is a source code analyzer and refactoring browser for collections of C programs. It can process workspaces of multiple projects mapping the complexity introduced by the C preprocessor back into the original C source code files. CScout takes advantage of modern hardware advances (fast processors and large memory capacities) to analyze C source code beyond the level of detail and accuracy provided by current compilers and linkers. CScout has been applied on projects ranging from tens of thousands of lines, like the Apache web server, to millions of lines, like the Linux, FreeBSD, Solaris, and the Windows Research kernels.

Unix sed(1) Stream Editor is a POSIX compliant re-implementation of the Unix sed(1) stream editor. Part of macOS, 4.4BSD, NetBSD, and FreeBSD.

FreeBSD contributions As a committer to the FreeBSD operating system I contributed several additions and fixes to the kernel, user-space programs, and the system’s documentation.

7 Publications

Updated details for all publications, scientometric data (citation counts and journal impact factors), as well as their full text (where possible), can be found online at <http://www.dmst.aueb.gr/dds/pubs>.

7.1 Books: Monographs and Edited Volumes

1. Diomidis Spinellis, Alberto Bacchelli, and Eleni Constantinou, editors. *MSR '24: Proceedings of the 21st International Conference on Mining Software Repositories*, New York, NY, USA, 2024. Association for Computing Machinery. ISBN 979-8-4007-0587-8.
2. Diomidis Spinellis, Georgios Gousios, Marsha Chechik, and Massimiliano Di Penta, editors. *ESEC/FSE 2021: Proceedings of the 29th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, New York, NY, USA, 2021. Association for Computing Machinery. ISBN 9781450385626.
3. Diomidis Spinellis. *Effective Debugging: 66 Specific Ways to Debug Software and Systems*. Addison-Wesley Professional, Boston, MA, 2016. URL <https://www.spinellis.gr/debugging/>.
4. Diomidis Spinellis. *The Elements of Computing Style: 180+ Tips for Busy Knowledge Workers*. Leanpub, Vancouver, BC, Canada, 2014. ISBN 9781500972097. URL <https://www.spinellis.gr/computingstyle>.
5. Diomidis Spinellis and Georgios Gousios, editors. *Beautiful Architecture: Leading Software Engineers Explain How They Think*. O'Reilly, Sebastopol, CA, 2009. ISBN 978-0596517984. URL <http://oreilly.com/catalog/9780596517984/>.
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7.8 Patents

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7.12 Articles in the Technical Press and SIG Publications

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7.13 Invited Talks

1. Diomidis Spinellis. Lessons from Unix history. Keynote address, November 2024. FOSSCOMM 2024: Free and Open-Source Software Communities Meeting, University of Macedonia, Thessaloniki, Greece.
2. Diomidis Spinellis. Lessons from Unix history. USENIX Association. Invited talk, October 2024. URL <https://www.youtube.com/watch?v=7mwzgwWz2k8>. SREcon24 Europe/Middle East/Africa. Dublin, Ireland.
3. Diomidis Spinellis. Three exponential changes. Talk, April 2024. URL <https://www.youtube.com/watch?v=BMtoTxzLBUA>. TEDx AUEB. Athens, Greece.
4. Diomidis Spinellis. Alexandria3k: Researching the world’s knowledge on your laptop. Main track, February 2024. FOSDEM ’24: Free and Open Source Software Developers’ European Meeting. Brussels, Belgium.
5. Diomidis Spinellis. Researching the world’s knowledge on your laptop. Keynote address, March 2023. 20th International Conference on Remote Engineering and Virtual Instrumentation (REV2023) and International Edunet World Conference (IEWC 2023).
6. Diomidis Spinellis. Working with open-source software: Selecting, using, adapting, and contributing back. Keynote address, March 2023. Open Source Software at Healthineers workshop.
7. Diomidis Spinellis. The triumph of the New Jersey style: How architectural elegance, components, and reuse shaped the evolution of Unix. Invited talk, October 2021. Web and Internet Science group, University of Southampton.
8. Diomidis Spinellis. The triumph of the New Jersey style: How architectural elegance, components, and reuse shaped the evolution of Unix. Keynote address, October 2020. 14th Brazilian Symposium on Software Components, Architectures, and Reuse (SBCARS).
9. Diomidis Spinellis. Fifty years of sustained progress: Form, forces, and lessons of Unix architectural evolution. Keynote address, September 2020. 14th European Conference on Software Architecture (ECSA), L’Aquila, Italy.
10. Diomidis Spinellis. Kerberos: Dsl-configurable burglar alarm system for the raspberry pi. Talk, November 2021. FOSSCOMM 2021: 14th Panhellenic Conference of Free Software / Open Source Software Communities.

11. Diomidis Spinellis. Epidose: Contact tracing for all. Talk, November 2020. FOSSCOMM 2020: 13th Panhellenic Conference of Free Software / Open Source Software Communities.
12. Diomidis Spinellis. git-issue: Git-based decentralized issue management with GitHub/GitLab integration. Lightning talks track, February 2020. FOSDEM '20: Free and Open Source Software Developers' European Meeting. Brussels, Belgium.
13. Diomidis Spinellis. Growing thousandfold over a half-century: Form and forces of Unix architectural evolution. Invited talk, October 2019. SPLASH 2019, Rebase Track. Athens, Greece.
14. Diomidis Spinellis. Open government in Greece: Current state and the way forward. Invited talk, September 2019. Conference: "Digital Democracy". Konrad Adenauer Stiftung and LIEE/NTUA. Athens, Greece.
15. Diomidis Spinellis and Paris Avgeriou. Evolution of the Unix system architecture: An exploratory case study. Journal First Track, August 2019. ESEC/FSE 2019: 27th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering. Tallinn, Estonia.
16. Diomidis Spinellis. Reducing administrative burdens through digital transformation. Invited talk, March 2019. URL http://iobe.gr/docs/research/en/RES_03_27062019_REP_GR.pdf#page=28. Conference: "Integrating Greece into the European Semester Policy Framework: Priorities for sustainable growth and competitiveness". European Commission and the Foundation for Economic and Industrial Research IOBE. Athens, Greece.
17. Diomidis Spinellis. How I hacked my way into academia. Keynote address, May 2019. URL <https://www.dmst.aueb.gr/dds/pubs/talks/2019-05-28-DocSymp/html/HackingAcademia.pdf>. ICSE 2019: 40th International Conference on Software Engineering: Doctoral Symposium. ACM / IEEE. Montreal, Canada.
18. Diomidis Spinellis. Digital transformation in the public sector. Keynote address, December 2018. Workshop on Open Technologies and Public Sector Digital Transformation, organized by Unisystems, GFOSS, and RedHat.
19. Diomidis Spinellis. From pipelines to graphs: Escape the tyranny of the shell's linear pipelines with dgsh. Invited talk, November 2018. Faculty of Engineering, Mathematics and Computer Science, Delft University of Technology, Delft, The Netherlands.
20. Diomidis Spinellis. The digital transformation of greece. Keynote address, November 2018. KPMG Leaders of Digital Economy Conference.
21. Diomidis Spinellis, Nikolaos Vasilakis, Nancy Pouloudi, and Niki Tsouma. Electronic government in Greece: Successes, problems, and the road to digital transformation. Joint keynote address, November 2018. DiaNEOsis Workshop on e-Government in Greece.
22. Diomidis Spinellis. Unix architecture evolution: Milestones and lessons learned. Keynote address, October 2018. FOSSCOMM 2018: 11th Panhellenic Conference of Free Software / Open Source Software Communities.
23. Diomidis Spinellis. Unix architecture evolution from the 1970 PDP-7 to the 2018 FreeBSD: Important milestones and lessons learned. Keynote address, July 2018. SATToSE 2018: The Seminar Series on Advanced Techniques and Tools for Software Evolution.
24. Diomidis Spinellis. World-changing technology developments: Outlook and challenges. Keynote address, July 2018. 53rd NCSR Demokritos Summer School. In Greek.
25. Diomidis Spinellis. World-changing technology developments: Outlook and challenges. Keynote address, May 2018. 5th Technology Forum. In Greek.
26. Diomidis Spinellis. Data for performing research on software business, platforms, and ecosystems, 2018. ISSN 2192-5283. URL <http://drops.dagstuhl.de/opus/volltexte/2018/9764>.
27. Diomidis Spinellis. Unix architecture evolution from the 1970 PDP-7 to the 2018 FreeBSD: Important milestones and lessons learned. Full-length presentation, February 2018. URL https://fosdem.org/2018/schedule/event/unix_evolution/. FOSDEM '18: Free and Open Source Software Developers' European Meeting. Brussels, Belgium.
28. Diomidis Spinellis, Tse-Hsun Chen, Yasutaka Kamei, Masanari Kondo, Neil Walkinshaw, Xin Xia, and

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29. Diomidis Spinellis. Reforms required in the public administration. Invited talk (in Greek), October 2017. Beyond Austerity: Reforming the Greek Economy, book presentation. Athens, Greece.
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7.14 Translated Works

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