

# CURRICULUM VITAE

**Diomidis Spinellis**

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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: empirical methods, tools, and programming techniques
- Big data applications and cloud systems engineering
- IT security

## 4 Honours and Awards

- 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-Cair”, 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 PProactive 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-Wesley 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 3 PhD students. External member in 20 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 Journal and Magazine Editorial Board Member

- IEEE Press. Member of the editorial board, 2019–2021.
- Journal of Systems and Software. Editorial Board Advisor, 2019–.
- IEEE Software. Editor in Chief, 2015–2018. Editor in Chief Emeritus, 2019–.
- IEEE Transactions on Emerging Topics in Computing. Associate Editor, 2013–2015.
- IEEE Software. Member of the editorial board, 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. Programme Committee member. *46th IEEE/ACM International Conference on Software Engineering (ICSE 2024)*. Lisbon, Portugal. May 2024.
2. General Chair. *21st IEEE/ACM International Conference on Mining Software Repositories (MSR 2024)*. Lisbon, Portugal. May 2024.
3. Programme Committee member. *45th IEEE/ACM International Conference on Software Engineering (ICSE 2023)*. Melbourne, Australia. May 2023.
4. Programme Committee member. *20th IEEE/ACM International Conference on Mining Software Repositories (MSR 2023) — Mining Challenge Track*. Melbourne, Australia. May 2023.
5. Steering Committee member. *IEEE/ACM International Conference on Mining Software Repositories (MSR)*. 2022–2027.
6. Programme Committee member. *26th Panhellenic Conference on Informatics (PCI 2022)*. Athens, Greece. November 2022.

7. Programme Committee member. *ACM SIGPLAN conference on Systems, Programming, Languages, and Applications: Software for Humanity (SPLASH '22)*. Auckland. December 2022. Onward! Essays track.
8. Programme Committee member. *30th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE '22)*. Singapore. November 2022.
9. Programme Board member. *44th IEEE/ACM International Conference on Software Engineering (ICSE 2022)*. Pittsburgh, PA, USA. May 2022.
10. Programme Committee member. *31st ACM SIGSOFT International Symposium on Software Testing and Analysis (ISSTA 2022)*. Online. (Originally planned for Daejeon, South Korea). July 2022.
11. Programme Committee member. *25th Panhellenic Conference on Informatics (PCI 2021)*. Volos, Greece. November 2021.
12. Distinguished Papers Committee member. *OOPSLA: Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA 2021)*. Chicago, IL, USA. October 2021.
13. Review Committee member. *OOPSLA: Conference on Object-Oriented Programming Systems, Languages, and Applications (OOPSLA 2021)*. Chicago, IL, USA. October 2021.
14. General Chair. *29th ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE 2021)*. Athens, Greece. August 2021.
15. Programme Committee member. *18th IEEE/ACM International Conference on Mining Software Repositories (MSR 2021)*. Madrid, Spain. May 2021.
16. Programme Committee member. *20th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM 2020)*. Adelaide, Australia. September 2020. New Ideas and Emerging Results (NIER) track.
17. 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.
18. Programme Committee member. *24th Panhellenic Conference on Informatics (PCI 2020)*. Online. November 2020.
19. Programme Committee chair. *17th IEEE/ACM International Conference on Mining Software Repositories (MSR 2020)*, Data Challenge track. Seoul, Korea. May 2020.
20. Programme Board member. *42nd IEEE/ACM International Conference on Software Engineering (ICSE 2020)*. Seoul, Korea. May 2020.
21. 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.
22. 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.
23. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2019)*, Doctoral Symposium track. Montreal, Canada. May 2019.
24. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2019)*, Software Engineering in Practice (SEIP) track. Montreal, Canada. May 2019.
25. Programme Committee member. *22nd Panhellenic Conference on Informatics (PCI 2018)*. Athens, Greece. November 2018.
26. General Chair. *11th Seminar on Advanced Techniques and Tools for Software Evolution (SATToSE 2018)*. Athens, Greece. July 2018.
27. Steering Committee member. *ACM Joint European Software Engineering Conference and Symposium on the Foundations of Software Engineering (ESEC/FSE)*. 2018–2021.
28. 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.
29. Programme Committee member. *15th IEEE/ACM International Conference on Mining Software Repositories (MSR 2018)*. Gothenburg, Sweden. May 2018.



30. Programme Committee member. *14th International Conference on Open Source Software Systems (OSS 2018)*. Athens, Greece. June 2018.
31. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2018)*, Software Engineering in Practice (SEIP) track. Gothenburg, Sweden. May 2018.
32. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2018)*, Technical Briefings (TB) track. Gothenburg, Sweden. May 2018.
33. Programme Committee member. *1th International Symposium on Empirical Software Engineering and Measurement (ESEM 2017)*, short-papers and posters track. Toronto, Canada. November 2017.
34. 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.
35. Programme Committee member. *33rd IEEE International Conference on Software Maintenance and Evolution (ICSME 2017)*, J1C2 track. Shanghai, China. September 2017.
36. Programme Committee member. *21st Panhellenic Conference on Informatics (PCI 2017)*. Larisa, Greece. September 2017.
37. Programme Committee member. *14th IEEE/ACM International Conference on Mining Software Repositories (MSR 2017)*. Buenos Aires, Argentina. May 2017.
38. Programme Committee member. *13th International Conference on Open Source Software Systems (OSS 2017)*. Buenos Aires, Argentina. May 2017.
39. 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.
40. Programme Committee chair. *International Symposium on the Foundations Software Engineering (FSE 2016)*, Demonstration Track. Seattle, WA. November 2016.
41. Steering Committee member. *IEEE/ACM International Conference on Mining Software Repositories (MSR)*. 2016–2020.
42. Programme Committee member. *12th International Conference on Open Source Software Systems (OSS 2016)*. Gothenburg, Sweden. May 2016.
43. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2016)*, Software Engineering in Practice (SEIP) track. Austin, Texas. May 2016.
44. Programme Committee member. *13th IEEE/ACM International Conference on Mining Software Repositories (MSR 2016)*. Austin, Texas. May 2016.
45. Programme Committee member. *24th IEEE International Conference on Program Comprehension, Tools Demo Track*. Austin, Texas. May 2016.
46. Programme Committee member. *20th Panhellenic Conference on Informatics (PCI 2016)*. Patra, Greece. November 2016.
47. Programme Committee member. *6th International e-Democracy Conference on “e-Democracy — Security, Privacy and Trust in a Digital World”*. Athens, Greece. December 2015.
48. Programme Committee member. *19th Panhellenic Conference on Informatics (PCI 2015)*. Athens, Greece. October 2015.
49. Programme Committee member. *IEEE/ACM International Conference on Software Engineering (ICSE 2015)*, Software Engineering in Practice (SEIP) track. Florence, Italy. May 2015.
50. Programme Committee member. *11th International Conference on Open Source Systems (OSS 2015)*. Florence, Italy. May 2015.
51. Programme Committee member. *22nd International Conference on Software Analysis, Evolution (SANER 2015)* (former CSMR-WCRE). Québec, Canada. March 2015.
52. Programme Committee member. *18th Panhellenic Conference on Informatics (PCI 2014)*. Athens, Greece. October 2014.
53. Programme Committee member. *8th ACM/IEEE International Symposium of Empirical Software Engineering and Measurement (ESEM 2014)*, Industry Track. Torino, Italy. September 2014.
54. Programme Committee member. *10th International Conference on Open Source Systems (OSS 2014)*.

- San José, Costa Rica. May 2014.
55. 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.
  56. Programme Committee member. *5th International e-Democracy Conference on "e-Democracy — Security, Privacy and Trust in a Digital World"*. Athens, Greece. December 2013.
  57. Programme Committee member. *17th Panhellenic Conference on Informatics (PCI 2013)*. Thessaloniki, Greece. September 2013.
  58. Programme Committee member. *4th Workshop on Academic Software Development Tools and Techniques (WASDeTT 2014)*, collocated with ECOOP 2013. Montpellier, France. July 2013.
  59. Programme Committee member. *9th International Conference on Open Source Systems (OSS 2013)*. Koper/Capodistria, Slovenia. June 2013.
  60. Programme Committee member. *17th European Conference on Software Maintenance and Reengineering (CSMR 2013)*. Genova, Italy. March 2013.
  61. Programme Committee member. *6th International Workshop on Foundations and Techniques for Open Source Software Certification (OpenCert 2012)*. Thessaloniki, Greece. October 2012.
  62. Programme Committee member. *16th Panhellenic Conference on Informatics (PCI 2012)*. Peiraias, Greece. October 2012.
  63. Programme Committee member. *8th International Conference on Open Source Systems (OSS 2012)*. Hammamet, Tunisia. September 2012.
  64. Programme Committee member. *11th International Conference on Mobile Business (ICMB 2012)*. Delft, The Netherlands. June 2012.
  65. Programme Committee member. *Workshop on Reusing Open-Source Software Components (ROSS)* co-located with ACM SigSoft CompArch 2012. Bertinoro, Italy. June 2012.
  66. Programme Committee member. *16th European Conference on Software Maintenance and Reengineering (CSMR 2012)*. Szeged, Hungary. March 2012.
  67. Programme Committee member. *7th International Conference on Open Source Systems (OSS 2011)*. Salvador, BA, Brazil. October 2011.
  68. Programme Committee member. *15th Panhellenic Conference on Informatics (PCI 2011)*. Kastoria, Greece. September 2011.
  69. Programme Committee member. *Programming Languages (PL) Track, 26th ACM Symposium on Applied Computing (SAC 2011)*. Taichung, Taiwan. March 2011.
  70. Programme Committee member. *14th Panhellenic Conference on Informatics (PCI 2010)*. Tripoli, Greece. September 2010.
  71. Programme Committee member. *9th International Conference on Mobile Business (ICMB 2010)*. Athens, Greece. July 2010.
  72. Programme Committee member. *6th International Conference on Open Source Systems (OSS 2010)*. Notre Dame, IN, USA. May–June 2010.
  73. 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.
  74. Programme Committee member. *Programming Languages (PL) Track, 25th ACM Symposium on Applied Computing (SAC 2010)*. Sierre, Switzerland. March 2010.
  75. Programme Committee member. *14th European Conference on Software Maintenance and Reengineering (CSMR 2010)*. Madrid, Spain. March 2010.
  76. Programme Committee member. *4th International Symposium on Information Security (IS '09)*. Vilamoura, Algarve, Portugal. November 2009.
  77. Programme Committee member. *13th Panhellenic Conference on Informatics (PCI '2009)*. Corfu, Greece. September 2009.
  78. 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. Septem-

- ber 2009.
79. Programme Committee member. *23rd European Conference on Object Oriented Programming (ECOOP 2009)*. Genova, Italy. June 2009.
  80. Programme Committee member. *IFIP WG 2.13 Conference on Free/Open Source Software (F/OSS 2009)*. Skovde, Sweden. June 2009.
  81. Programme Committee member. *Second International Workshop on Free/Libre/Open Source Software Systems (FLOSS)*. ICSE 2009, Vancouver, BC, Canada. May 2009.
  82. Programme Committee member. *2009 ACM Symposium on Applied Computing: Programming Languages (PL) Track*. Honolulu, Hawaii. March 2009.
  83. Programme Committee member. *4th International Workshop on Public Data about Software Development (WoPDaSD 2009)*. Skovde, Sweden. March 2009.
  84. Programme Committee member. *13th European Conference on Software Maintenance and Reengineering (CSMR 2009)*. Kaiserslautern, Germany. March 2009.
  85. Programme Committee member. *4th European Conference on Computer Network Defense (EC2ND)*. Dulin, Ireland. December 2008.
  86. Programme Committee member. *3rd International Symposium on Information Security (IS'08)*. Monterrey, Mexico. November 2008
  87. Programme Committee member. *3rd International Annual Workshop on Digital Forensics & Incident Analysis (WDFIA 2008)*. Malaga, Spain. October 2008.
  88. Programme Committee member. *3rd International Workshop on Public Data about Software Development (WoPDaSD 2008)*. Milan, Italy. September 2008.
  89. Programme Committee member. *International Conference on Open Source Systems*. Milan, Italy. September 2008.
  90. Programme Committee member. *12th Panhellenic Conference on Informatics (PCI '2008)*. Samos, Greece. August 2008.
  91. 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.
  92. Programme Committee member. *International Workshop on Advanced Software Development Tools and Techniques (WASDeTT 2008)*, collocated with ECOOP 2008. Paphos, Cyprus. July 2008.
  93. Programme Committee member. *12th European Conference on Software Maintenance and Reengineering (CSMR 2008)*. Athens, Greece. April 2008.
  94. Programme Committee member. *3rd European Conference on Computer Network Defense (EC2ND)*. ICS-FORTH, Crete, Greece. October 2007.
  95. Programme Committee member. *Second Annual Workshop on Digital Forensics & Incident Analysis*. Samos, Greece. August 2007.
  96. Programme Committee member. *Second International Workshop on Public Data about Software Development (WoPDaSD 2007)*. Limerick, Ireland.
  97. Programme Committee member. *International Conference on Global Software Engineering (ICGSE) 2007*. Munich, Germany. August 2007.
  98. Programme Committee member. *11th Panhellenic Conference on Informatics (PCI '2007)*. Patras, Greece. May 2007.
  99. Programme Committee member. *Libre Software as a Matter of Research* workshop, held in conjunction with *FOSDEM 2007*. Brussels, Belgium. February 2007.
  100. 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.
  101. Programme Committee member. *10th Panhellenic Conference on Informatics (PCI '2005)*. Volos, Greece. November 2005.
  102. Programme Committee member. *Public Key Infrastructure: First European PKI Workshop: Research and Applications, EuroPKI 2004*. Samos, Greece. June 2004.

103. Programme Committee member. *ETHICOMP-2004 — Challenges for the Citizen of the Information Society*. Syros, Greece. April 2004.
104. Programme Committee chair. *ACM Symposium on Applied Computing 2004, Track on Ubiquitous Computing Applications*. Nicosia, Cyprus. March 14–17, 2004.
105. Programme Committee chair. *CMSD-2003 — International Conference on Cross-Media Service Delivery*. Santorini, Greece. May 2003.
106. Programme Committee member. *18th IFIP International Information Security Conference*. Athens, Greece. May 2003.
107. 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.

**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, 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.
2. Diomidis Spinellis. *Effective Debugging: 66 Specific Ways to Debug Software and Systems*. Addison-Wesley Professional, Boston, MA, 2016.
3. Diomidis Spinellis. *The Elements of Computing Style: 180+ Tips for Busy Knowledge Workers*. Leanpub, Vancouver, BC, Canada, 2014.
4. Diomidis Spinellis and Georgios Gousios, editors. *Beautiful Architecture: Leading Software Engineers Explain How They Think*. O’Reilly, Sebastopol, CA, 2009.
5. Chrissoleon T. Papadopoulos, Michael E. J. O’Kelly, Michael J. Vidalis, and Diomidis Spinellis. *Analysis and Design of Discrete Part Production Lines*. Springer, 2009.
6. Diomidis Spinellis, editor. *Open Source Software in the Organization*. Build Your Career TechSets. IEEE Computer Society, Los Alamitos, CA, USA, 2007.
7. Diomidis Spinellis. *Code Quality: The Open Source Perspective*. Addison-Wesley, Boston, MA, 2006.
8. Diomidis Spinellis. *Code Reading: The Open Source Perspective*. Addison-Wesley, Boston, MA, 2003.
9. Diomidis Spinellis, editor. *Cross-Media Service Delivery*, volume 740 of *The Kluwer international series in engineering and computer science*. Kluwer Academic Publishers, Boston, MA, 2003.

### 7.2 Theses

1. Diomidis Spinellis. *Programming Paradigms as Object Classes: A Structuring Mechanism for Multiparadigm Programming*. PhD thesis, Imperial College, London, UK, February 1994.
2. Diomidis Spinellis. An implementation of the Haskell language. Master’s thesis, Imperial College, London, UK, June 1990.

### 7.3 Peer-reviewed Journal Articles

1. Zoe Kotti, Georgios Gousios, and Diomidis Spinellis. Impact of software engineering research in practice: A patent and author survey analysis. *IEEE Transactions on Software Engineering*, pages 1–19, September 2022.
2. Georgios Liargkovas, Angeliki Papadopoulou, Zoe Kotti, and Diomidis Spinellis. Software engineering education knowledge versus industrial needs. *IEEE Transactions on Education*, 65(3):419–427, August 2022.
3. Panos Louridas and Diomidis Spinellis. Conspicuous corruption: Evidence at a country level. *PLOS ONE*, 16(9):e0255970, September 2021.
4. Diomidis Spinellis. Why computing students should contribute to open source software projects. *Communications of the ACM*, 64(7):36–38, July 2021.

5. Diomidis Spinellis and Paris Avgeriou. Evolution of the Unix system architecture: An exploratory case study. *IEEE Transactions on Software Engineering*, 47:1134–1163, June 2021.
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## 7.7 Conference Publications

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## 7.8 Letters Published in Scholarly Journals and Newspapers

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3. Diomidis Spinellis. Trump’s triumph. *The Economist*, November 19th 2016.
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5. Diomidis Spinellis. Future CS course already here. *Communications of the ACM*, 49(8):13, 2006.
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## 7.10 Book Reviews

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25. Diomidis Spinellis. Clichés can be both tiring and helpful. *IEEE Software*, 21(3):105, May 2004. Book Review: More Secrets of Consulting: The Consultant’s Tool Kit.
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32. Diomidis Spinellis. Book review: Non-photorealistic computer graphics: Modeling, rendering, and animation. *ACM Computing Reviews*, 44(3):141, March 2003.
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## 7.11 Articles in the Technical Press and SIG Publications

1. Diomidis Spinellis. What I learned from fixing my laptop’s motherboard. *Hacker Monthly*, 14:22–23, July 2011.
2. Diomidis Spinellis. 10 tips for spotting low-quality open source code. *Enterprise Open Source Journal*, 2(5):18–21, September 2006.
3. Diomidis Spinellis. Code finessing. *Dr. Dobbs’s*, 31(11):58–63, November 2006.
4. Markos Gogoulos and Diomidis Spinellis. Using Linux live CDs for penetration testing. *;login:*, 31(3):40–45, June 2006.
5. Diomidis Spinellis. Some types of memory are more equal than others. *;login:*, 31(2):29–36, April 2006.
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10. Diomidis Spinellis. Declarative peephole optimization using string pattern matching. *ACM SIGPLAN Notices*, 34(2):47–51, February 1999.
11. Diomidis Spinellis. Small tools for automatic text generation. *;login:*, 23(4):44–47, August 1998.
12. Diomidis Spinellis and Rob Kolstad. A conversation about Perl and the shell: Choosing the implementation vehicle. *;login:*, 22(3):25–31, June 1997.
13. Diomidis Spinellis. Trace: A tool for logging operating system call transactions. *Operating Systems Review*, 28(4):56–63, October 1994.
14. Diomidis Spinellis. Type-safe linkage for variables and functions. *ACM SIGPLAN Notices*, 26(8):74–79, August 1991.

## 7.12 Invited Talks

1. 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).
2. 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.
3. 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.
4. Diomidis Spinellis. Epidose: Contact tracing for all. Talk, November 2020. FOSSCOMM 2020: 13th Panhellenic Conference of Free Software / Open Source Software Communities.

5. 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.
6. 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.
7. 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.
8. 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.
9. Diomidis Spinellis. Reducing administrative burdens through digital transformation. Invited talk, March 2019. 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.
10. Diomidis Spinellis. How I hacked my way into academia. Keynote address, May 2019. ICSE 2019: 40th International Conference on Software Engineering: Doctoral Symposium. ACM / IEEE. Montreal, Canada.
11. 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.
12. 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.
13. Diomidis Spinellis. The digital transformation of greece. Keynote address, November 2018. KPMG Leaders of Digital Economy Conference.
14. 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.
15. 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.
16. 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.
17. Diomidis Spinellis. World-changing technology developments: Outlook and challenges. Keynote address, July 2018. 53rd NCSR Demokritos Summer School. In Greek.
18. Diomidis Spinellis. World-changing technology developments: Outlook and challenges. Keynote address, May 2018. 5th Technology Forum. In Greek.
19. Diomidis Spinellis, 2018.
20. Diomidis Spinellis. Unix architecture evolution from the 1970 PDP-7 to the 2018 FreeBSD: Important milestones and lessons learned. Full-length presentation, February 2018. FOSDEM '18: Free and Open Source Software Developers' European Meeting. Brussels, Belgium.
21. Diomidis Spinellis, Tse-Hsun Chen, Yasutaka Kamei, Masanari Kondo, Neil Walkinshaw, Xin Xia, and Shin Yoo. Mining software repositories and search-based software engineering tools and infrastructures. Presentation, December 2017. NII Shonan Meeting 105: Data-Driven Search-Based Software Engineering. Shonan Village Center, Japan.
22. Diomidis Spinellis. Reforms required in the public administration. Invited talk (in Greek), October 2017. Beyond Austerity: Reforming the Greek Economy, book presentation. Athens, Greece.
23. Diomidis Spinellis. Agile development tooling. Lightning talks track, September 2017. Agile Greece

- Summit. Athens, Greece.
24. Diomidis Spinellis. Half-century of Unix: History, preservation, and lessons learned. Keynote address, June 2017. OW2con'17: New Challenges of Mainstream Open Source Software — Re-inventing business models and value propositions. Paris, France.
  25. Diomidis Spinellis. The most important design flaws in IT security and how to avoid them. Keynote address, June 2017. 3rd Annual ICT Security World Congress.
  26. Diomidis Spinellis. Greece: Charting a path towards effective e-government. Invited talk, June 2017. 2017 Korean-Hellenic Cooperation Forum.
  27. Diomidis Spinellis. Half-century of Unix: History, preservation, and lessons learned. Keynote address, May 2017. MSR 2017: 14th International Conference on Mining Software Repositories. ACM / IEEE. Buenos Aires, Argentina.
  28. Diomidis Spinellis. The Unix history repository: Its creation, contents, and use. Invited talk, April 2017. Faculty of Engineering, Mathematics and Computer Science, Delft University of Technology, Delft, The Netherlands.
  29. Diomidis Spinellis. The Unix history repository: Its creation, contents, and use. Invited talk, March 2017. Department of Electrical and Computer Engineering, McGill University, Montreal, Canada.
  30. Diomidis Spinellis. From pipelines to graphs: Escape the tyranny of the shell's linear pipelines with dgsh. Lightning talks track, February 2017. FOSDEM '17: Free and Open Source Software Developers' European Meeting. Brussels, Belgium.
  31. Diomidis Spinellis. The role of transparency in overcoming the crisis. Invited talk, December 2016. 9th Transparency International Greece Yearly Conference. Reforms and Transparency: What we Learn from the Crisis. Athens, Greece.
  32. Diomidis Spinellis. Domain-specific languages in practice. Invited talk, November 2016. 3rd Software for Domain Experts conference. Athens, Greece.
  33. Diomidis Spinellis. Research priorities in software technologies. Invited talk, October 2016. Expert Workshop: Challenges and Opportunities for the European Software Industry. Brussels, Belgium.
  34. Diomidis Spinellis. Remove and prevent: Dealing with bugs in software and systems. Invited talk, June 2016. GOTO Amsterdam International Software Development Conference. Amsterdam, Netherlands.
  35. Diomidis Spinellis. The Unix history in a repository: 44 years of Unix history in one Git repo. Lightning talks track, January 2016. FOSDEM '16: Free and Open Source Software Developers' European Meeting. Brussels, Belgium.
  36. Diomidis Spinellis. C code refactoring: Working with CScout, the C refactoring browser. Lightning talks track, January 2016. FOSDEM '16: Free and Open Source Software Developers' European Meeting. Brussels, Belgium.
  37. Diomidis Spinellis. Software engineering in the cloud. Invited talk, October 2015. Software Experts Summit 2015: The Future of Software Engineering. Beijing, China.
  38. Diomidis Spinellis. A repository with 44 years of Unix history evolution. Invited talk, October 2015. Department of Computer Science and Technology, Tsinghua Univeristy, Beijing, China.
  39. Diomidis Spinellis. A repository with 44 years of Unix history evolution. Invited talk, October 2015. Department of Computer Science and Technology, Peking Univeristy, Beijing, China.
  40. Diomidis Spinellis. sgsh: Scatter-gather operations on large data sets and streams. Invited talk, November 2014. Department of Computer Science, Columbia University, New York, USA.
  41. Diomidis Spinellis. Engineering software analytics studies. Keynote address, September 2014. ESEM 2014: 8th International Symposium on Empirical Software Engineering and Measurement. ACM / IEEE. Torino, Italy.
  42. Diomidis Spinellis. Open problems and challenges in software analytics, 2014.
  43. Diomidis Spinellis. 42 years of unix history in one repository, 2014.
  44. Diomidis Spinellis. Against the odds: Managing the unmanagable in a time of crisis. Keynote address, June 2014. CAiSE 2014: 26th International Conference on Advanced Information Systems Engineering. Thessaloniki, Greece.

45. Diomidis Spinellis. The Antikythera Mechanism: Experimenting with gears on our PC. Invited talk, February 2014. Bodossaki Lectures on Demand. (In Greek).
46. Diomidis Spinellis. Sgsh: Scatter-gather operations on large data sets and streams. Presentation, September 2013. ASDS 13: Augmenting Software Developer Support to Improve Productivity. Centro Stefano Franscini, Ascona, Switzerland.
47. Diomidis Spinellis. Theory meets reality: Managing IT systems at the Greek ministry of finance. Keynote address, November 2012. 8th European Computer Science Summit. Informatics Europe. Barcelona, Spain.
48. Diomidis Spinellis. Eurozone in crisis: The administrative basis of macroeconomic meltdowns. Invited panel presentation, October 2012. Strategic Management Society: SMS 32nd Annual International Conference: Strategy in Transition. Prague.
49. Diomidis Spinellis. Guerrilla tactics in government administration. Talk, September 2012. TEDx Academy. Athens, Greece.
50. Diomidis Spinellis. Fatal injection (and what you can do about it). Keynote address, July 2012. OWASP AppSec Research conference.
51. Diomidis Spinellis. Theory meets reality: Managing IT systems at the Greek Ministry of Finance. Invited talk, June 2012. Software Experts Summit 2012: Mastering Uncertainty in the Software Industry: Risks, Rewards, and Reality. British Computer Society, London, UK.
52. Diomidis Spinellis. UMLGraph and the declarative drawing of diagrams. Invited talk, April 2012. ACCU Conference. Oxford, UK.
53. Diomidis Spinellis. Fair end efficient management of public revenue: Problems and proposals. Hellenic Foundation for European and Foreign Policy. Public debate: Tax evasion and Social Justice. Available online <http://www.eliamep.gr/wp-content/uploads/2011/12/2011-12-13-tax-system-2.pdf>, December 2011. In Greek.
54. Diomidis Spinellis. Farewell to disks: Efficient processing of obstinate data. Keynote address, November 2011. ITPro Dev Connections 2011. In Greek.
55. Diomidis Spinellis. Farewell to disks: Efficient processing of obstinate data. Invited talk, October 2011. Imperial College London. Department of Computing. LSDS — Large-Scale Distributed Systems Group.
56. Diomidis Spinellis. Farewell to disks: Efficient processing of obstinate data. Invited talk, April 2011. ACCU Conference. Oxford, UK.
57. Diomidis Spinellis. Farewell to disks: Efficient processing of obstinate data. Invited talk, March 2011. IRILL — Center for Research and Innovation on Free Software. Paris, France.
58. Diomidis Spinellis. Farewell to disks: Efficient processing of obstinate data. Distinguished Lecturer Series “Leon the Mathematician” at the Department of Informatics, Aristotle University of Thessaloniki Greece, March 2011.
59. Diomidis Spinellis. The Unix toolchest: Power tools for power programmers. Invited talk, April 2010. ACCU Conference. Oxford, UK.
60. Diomidis Spinellis. Security and trust. Invited talk (in Greek), March 2010. IDC IT Security Roadshow 2010: Battling Sophisticated Threats: Security Strategies for the Resilient Enterprise. Athens, Greece.
61. Diomidis Spinellis. Locating and addressing performance issues. Invited talk, February 2010. OOP 2010 — Productivity: People, Process, and Technology. Munich, Germany.
62. Diomidis Spinellis. Beyond four kernels: A platform for software engineering research. Invited talk, June 2009. University of Southern California. Department of Computer Science. Los Angeles, CA.
63. Diomidis Spinellis. The Antikythera mechanism: Hacking with gears. Invited talk, June 2009. USENIX Annual Technical Conference. San Diego, CA.
64. Diomidis Spinellis. Locating and addressing performance issues. Invited talk, April 2009. ACCU Conference. Oxford, UK.
65. Diomidis Spinellis. Evaluating the quality of open source software. Invited talk, October 2008. Technical Workshop on Software Development and Communities. Madrid, Spain.

66. Diomidis Spinellis. Evaluating the quality of open source software. Invited talk, April 2008. SQM 2008: Second International Workshop on Software Quality and Maintainability. Athens, Greece.
67. Diomidis Spinellis. Open source in education, March 2008. Keynote address at the 4th Panhellenic Conference on Computer Science Education. (In Greek.)
68. Diomidis Spinellis. An academic's view of broadband connectivity. Invited talk, July 2007. Athens University of Economics and Business. (In Greek).
69. Diomidis Spinellis. The Antikythera Mechanism on the OLPC. Invited talk, June 2007. Aristotle University of Thessaloniki, Department of Informatics. (In Greek).
70. Diomidis Spinellis. The Antikythera Mechanism on the OLPC. Invited talk, April 2007.
71. Diomidis Spinellis. Global software development in the FreeBSD project. In *Free/Open Source Software: Research, Communities and Industry*, Thessaloniki, Greece, December 2006. Aristotle University of Thessaloniki.
72. Diomidis Spinellis. Global software development in the FreeBSD project. In *NASSCOM Quality Summit 2006: Setting benchmarks in global outsourcing*, Bangalore, India, September 2006. National Association of Software and Services Companies (NASSCOM). Invited talk.
73. Diomidis Spinellis. The role of open standards and systems in establishing IT security. In *National Strategy Principles for Data and Network Confidentiality and Security*. Hellenic Authority for the Information and Communication Security and Privacy (ADAЕ), April 2005. In Greek.
74. Diomidis Spinellis. Securing open source software. Information Security Matrix Forum 2003, November 2003.
75. Diomidis Spinellis. Citizen and infrastructure security on the internet. Workshop: Cybersecurity and European Citizens: Awareness and Best Practices in the Digital Age, May 2003. In Greek.
76. Diomidis Spinellis. On the availability of e-government services. European Union, Greek Presidency 2003, Ministry of Interior, Public Administration and Decentralization. Meeting of the e-Government Working Group, March 2003.
77. Diomidis Spinellis. Reliable software implementation using domain-specific languages. Workshop: Analysis and Dimensioning Software — Problems and Applications. University of Thessaloniki, Structural Engineering Department. Postgraduate programme on aseismic design., May 2000. In Greek.
78. Diomidis Spinellis. Cryptography policy in the USA and the European Union. Seminar: IKAROS human network, December 1997. In Greek.
79. Diomidis Spinellis. The transition to Intranet technologies. Talk given to the Athens Netware User's Group, February 1997. In Greek.
80. Diomidis Spinellis. Applying ISO-9001 to the development, supply, and maintenance of software. Seminar: Imperial College, Department of Computing, June 1996.
81. Diomidis Spinellis. Client/server development tools issues. Business Technology '95: Meeting on Client / Server Development tools jointly organised by the Greek Informatics Institute and Greek Management Society, April 1995. In Greek.

### 7.13 Translated Works

1. Chinese translation of the book *Effective Debugging*, ISBN 978-7-121-31531-2.
2. Japanese translation of the book *Effective Debugging*, ISBN 978-4-87311-799-7.
3. Korean translation of the book *Effective Debugging*, ISBN 9788968487781.
4. Russian translation of the edited book *Beautiful Architecture*, ISBN 978-5-93286-175-2.
5. Chinese translation of the edited book *Beautiful Architecture*, ISBN 978-7-111-28356-0.
6. Second Chinese translation of the edited book *Beautiful Architecture*, ISBN 978-986-276-398-8.
7. Japanese translation of the edited book *Beautiful Architecture*, ISBN 978-4-87311-430-9.
8. Chinese annotation version of the book *Code Quality*, ISBN 9787111226710.
9. Greek translation of the book *Code Quality*, ISBN 978-960-461-123-2.
10. Chinese translation of the book *Code Quality*, ISBN 9787115167934.

11. Second Chinese translation of the book *Code Quality*, ISBN 978-7-121-17421-6.
12. Japanese translation of the book *Code Quality*, ISBN 978-4-8399-1979-5.
13. Greek translation of the book *Code Reading*, ISBN 960-209-845-7.
14. Polish translation of the book *Code Reading*, ISBN 83-7361-555-5.
15. Korean translation of the book *Code Reading*, ISBN 89-5674-186-7.
16. Russian translation of the book *Code Reading*, ISBN 5-8459-0604-0.
17. Japanese translation of the book *Code Reading*, ISBN 4-8399-1265-3.
18. Chinese translation of the book *Code Reading*, ISBN 7-302-08072-0.
19. Second Chinese translation of the book *Code Reading*, ISBN 978-7-121-17481-0.