

Kostas Kontogiannis

Curriculum Vitae

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PERSONAL STATEMENT

Over the years as a Faculty member both at the University of Waterloo and the National Technical University of Athens, I have obtained significant experience in research, teaching and, service. My primary objectives are, first to help foster collaborations with my University colleagues creating a fertile research environment, second to achieve excellence in education by engaging students in a mentally stimulating learning process in the classroom, third to attract talented graduate students who can realize their true potential in an academically rich environment and, fourth to maintain existing as well as, establish new collaborations and funding partnerships with industry and research centers in order to raise the profile of my University through active and highly visible research, volunteer work, and professional service.

CITIZENSHIPS

Greek and Canadian.

1. EDUCATION

- 1989 – 1996:** Ph.D. Computer Science, McGill University, Canada,
Thesis title: *"Pattern Matching Techniques for Program Understanding"*.
- 1988 – 1989:** M.Sc. Computer Science, Katholieke Universiteit Leuven, Belgium,
Thesis title: *"Automatic Road Delineation from Satellite Images"*.
- 1981 – 1985:** B.Sc. Mathematics, University of Patras, Greece
Thesis title: *"Modeling Fluid Flows in Variable Cross-Section Pipes"*.

2. EMPLOYMENT

- 2006 – now:** Tenured Associate Professor, Dept. of Electrical & Computer Engineering,
National Technical University of Athens, Greece.
- 2009 – now:** Adjunct Associate Professor, Dept. of Electrical & Computer Engineering,
University of Waterloo, Canada.
- 2001 – 2006:** Tenured Associate Professor, Dept. of Electrical & Computer Engineering,
University of Waterloo, Canada.
- 1997 – 2001:** Tenure-track Assistant Professor, Electrical & Computer Engineering,
University of Waterloo, Canada.
- 01–12/1996:** Research Associate, Dept. of Computer Science, University of Toronto, Canada.

3. TEACHING EXPERIENCE

- **Courses Taught**

(i) Undergraduate Courses

National Technical University of Athens, Greece

- [1] **Software Engineering (9th semester)**. The course covers UML, software architecture and software architecture styles, design patterns, software reliability growth models, project management and cost estimation fundamentals. Capstone project on extending VoIP/SIP protocol with call forwarding, call blocking, and billing options (Fall 2007-13).
- [2] **Advanced Topics n Database Systems (9th semester)**. The course covers concurrency control and recovery in relational database management systems. distributed databases, object-oriented database systems, temporal and spatial database systems, spatial database systems, cloud computing frameworks, data warehouses and data mining and data analytics (Fall 2014).
- [3] **Artificial Intelligence (7th semester)**. The course covers first order logic, search algorithms, reasoning and reasoning under uncertainty, knowledge representation and, expert systems (Winter 2008-12).
- [4] **Programming Techniques (2nd semester)**. The course covers basic data structures (arrays, linked lists, structures, stacks, queues, hash tables, heaps), sorting, and C programming fundamentals (Winter2008-12).

University of Waterloo, Canada

- [1] **Data Structures and Algorithms (2nd year)**. The course covers basic data structures (abstract data types, object orientation, queues, hash tables, search trees, heaps), sorting, and C++ programming fundamentals, ECE 250 (Fall'97, Fall'98, Winter'00, Fall'04).
- [2] **Software Engineering (3rd year)**. As above at NTUA. ECE 355 (Fall'98, Fall'99, Fall'00, Fall'04, Fall'05).
- [3] **Computer Communication Networks (4th year)**. The course covers the study of all major protocols at physical, data-link, network, transport and application layers. ECE 428 (Winter'01).
- [4] **Software Testing and Quality Assurance (4th year)**. The course covers testing techniques for unit, integration, functional and acceptance testing, as well as software metrics and software reliability growth models. ECE 453/SE465 (Winter'06).
- [5] **Distributed Systems and Network Centric Computing (4th year)**. The course covers principles of Distributed systems, election algorithms, timestamps, inter-process communication, threads, remote invocation, distributed objects, and service orientation ECE 454 (Spring'98-01).
- [6] **Artificial Intelligence (4th year)**. The course covers fundamental search algorithms, first order logic, reasoning in first order logic, probabilistic reasoning and reasoning under uncertainty, expert systems, fundamentals of neural networks, ECE 457 (Spring'98-01).

University of Toronto, Canada

- [1] ***Programming Languages (3rd year)***. The course covers principles of different programming paradigms and namely the functional, procedural, logic, and object oriented paradigms. Instruction of fundamental principles of LISP, C, Prolog, and C++ (Fall 1996).

(ii) Graduate Courses**National Technical University of Athens, Greece**

- [1] ***Software Evolution*** (grad course). The course covers, principles of parsing, languages, grammars, system modeling, source code representation, software transformations, software metrics for reengineering and maintenance.
- [2] ***Principles of Enterprise Information Systems*** (grad course). The course covers UML, software enterprise architectures, project planning and management, software quality and reliability. Course is offered at the Techno-economic systems MBA program at NTUA.
- [3] ***Data Base Technologies and the World Wide Web*** (grad course). The course covers data modeling, indexing and search algorithms in the WWW, map-reduce processes, cloud computing and distributed data storage.
- [4] ***Advanced Topics in Data Science*** (grad course). The course will be offered for the first time on Winter Term 2015 and covers areas of data representation, conceptual modeling, reasoning, machine learning, and software engineering for big data systems. The course will feature projects and training on the IBM Watson environment provided by IBM US.

University of Waterloo, Canada

- [1] ***Software Reengineering***, (grad course). As above. (Spring'97-Spring'98, Fall'99 - Spring'06).
- [2] ***Distributed and Network Centric Computing***, (grad course). The course covers the material of ECE 454 as above, and in addition discusses research issues in distributed systems and requires the design and implementation of a distributed auction system. Graduate offering of ECE 757 (Spring'00).

University of Toronto, Canada

- [1] ***Software Maintenance and Re-engineering*** (grad course). Principles of software maintenance, architectural analysis, software metrics, parsing, source code static analysis, data flow analysis, source code transformations, tools. (Fall 1996).

4. RESEARCH INTERESTS AND GRANTS**a. Areas of Interest:**

- Software architecture, maintenance, and evolution
- Service oriented computing
- Intelligent systems
- Run-time system analysis

b. Bibliometrics and Citations (Google Scholar)

- h-index: 32
- Citations: 3,548

c. Grants and Contracts (amounts pertain to my own portion of the grant):

<i>HOLDERS</i>	<i>TITLE & AGENCY</i>	<i>OWN SHARE</i>	<i>DATES</i>
K. Kontogiannis (PI)	"Resource Oriented Hypermedia" (IBM), CAS Research, Canada	20,000 USD	Jan. 2015 - Dec. 2015
K. Kontogiannis (PI)	"Compliance Verification for multi-tier Service Oriented Systems", GGET, Greece	52,000 Euros	March 2011- Aug. 2015
K. Kontogianis (PI)	"Adapting Web Service Systems to REST Architecture" (IBM), US	\$84,000 USD	Jan. 2010 – Dec. 2013
K. Kontogiannis (PI)	"Bridging the Gap between Business and IT Compliance Requirements", Computer Associates (CA), UK	72,000 Euros	Jan. 2009 – Dec. 2011
K. Czarnecki (PI), K. Kontogiannis et.al co-Pis)	"Model-Integrated Software Service Engineering" Ontario Research Fund - Research Excellence" (ORF-RE), Canada	160,000CDN	Jan. 2008 – Jan 2011
K. Kontogiannis	"Event Logging Systems for Legacy Software", Computer Associates (CA), US	\$120,000 CDN	June 2007 – May 2009
K. Kontogiannis (PI)	"Requirements Driven Model Refactoring and Evolution for Service Oriented Systems", IBM, Canada	\$108,000 CDN	Jan. 2007 – Dec. 2009
K. Kontogiannis (SEI Contract)	"A Research Agenda for Service Oriented Architectures", SEI/CMU, US IRAD Project	\$14,400 USD	Feb. 2007 – Sept. 2007
K. Kontogiannis (PI), P. Ward (co-PI)	"Service Discovery and Composition of Carrier Applications", Nortel, Canada	\$180,000 CDN	Jan. 2006 – Dec. 2008
K. Kontogiannis (PI)	"Extensible Framework for Model Driven Software Evolution" IBM, US	\$60,00 USD	Jan. 2005 – Dec. 2006
K. Kontogiannis (PI)	"Model Driven Software Development and Evolution", NSERC Discovery Grant	\$130,000 CDN	April 2006 – March 2011
A. Safavi (PI), K. Kontogiannis, D. Covey	"Enabling Software Technologies for Land-mobile Satellite Data Network for Health Informatics", CITO	\$60,000 CDN	April 2005 – Mar. 2006
K. Kontogiannis (PI)	"Integrating Software Evolution Support into Application Development Environment", IBM University Partnership Program Award	\$40,000 USD	May 2003

J. Mylopoulos (PI), K. Kontogiannis, J. Cordy, E. Stroulia	"Software Re-engineering for network-Centric Platforms", NSERC, CRD	\$98,000 CDN	May. 2002 – Apr. 2006
J. Mylopoulos (PI), K. Kontogiannis, E. Stroulia	"Knowledge Management for Mobile Users", IRIS	\$105,000 CDN	May 2002 – Apr. 2005
K. Kontogiannis (PI)	"Infrastructures for the Design and Deployment of Customizable Web Portals in Wireless and Thin-client Platforms", Bell University laboratories, Canada	\$225,000 CDN	May 2001 – Apr. 2004
K. Kontogiannis (PI)	"Design of Software Tools and Methodologies to Support Software Re-engineering", NSERC Discovery Grant, Canada	\$130,000 CDN	May 2001 – April 2006
K. Kontogiannis (PI)	"Analysis and Use of Markup Languages in Wireless Mobile Devices", Bell University Laboratories, Canada	\$70,000 CDN	May 2000 – Dec. 2001
K. Kontogiannis (PI), J. Mylopoulos	"Design and Implementation of a Collaborative Environment for Software Management", CITO, Canada	\$66,000 CDN	Apr. 2000 – March 2002
J. Mylopoulos (PI), R. Holt, K. Kontogiannis, H. Muller	"Software Transformations for Massive Software Change", NSERC CRD, Canada	\$240,000 CDN	April 1999- Mar. 2002
K. Kontogiannis (PI), J. Mylopoulos	"Design and Development of a Code Base Management System (CBMS)", CITO, Canada	\$66,000 CDN	Sept. 1998 – June 2000
J. Mylopoulos (PI), K. Kontogiannis, H. Muller	"Frameworks for the Reengineering of Legacy Systems to Network-centric Environments", IRIS, Canada	\$80,000 CDN	Apr. 1998- March 2002
K. Kontogiannis (PI), et.al	"Computing and Laboratory Infrastructure for the Wireless Telecommunications, Power Electronics and, Software Engineering Laboratories", CFI New Opportunities Program, Univ. of Waterloo, Canada	\$259,000 CDN (total)	Apr. 1998 – March 2002
K. Kontogiannis (PI)	"Software Reengineering to Object Oriented Platforms", NSERC Discovery Grant, Canada	\$110,000 CDN	May 1997 – Apr. 2001
J. Mylopoulos (PI), R. Holt, K. Kontogiannis	"Design of Tools and Techniques for Software Reengineering", NSERC CRD, Canada	\$80,000 CDN	Jan. 1997 – Apr. 1999
J. Mylopoulos (PI), K. Kontogiannis, M. Stanley	"Evaluation and Integration of Software Reengineering Tools", CITO, Canada	\$30,000 CDN	Sept. 1995 – Dec. 1996

5. COLLABORATION WITH RESEARCH CENTERS AND CONSULTING

a. Industry and Government Laboratories:

- **Jan. 1997 – now:** Visiting Scientist and Faculty Fellow IBM Canada, Toronto Laboratory, Canada.
- **Jun. 2007 – Dec. 2011:** Visiting Scientist Computer Associates Technologies, CA Labs, Canada/UK
- **Jan. 2007 – Dec. 2007:** Visiting Scientist and Research Collaborator, Software Engineering Institute, Dynamic Systems Division, Pittsburgh, USA.

b. Startups:

- **Jun. 1996 – Jun. 1999:** **Techné Knowledge Systems**, Toronto, ON. Canada. The company developed novel program analysis, maintenance, and Y2K re-engineering tools for ADABAS, NATURAL and Micro-Focus based software applications.

c. Consulting:

- **Nov. 2014 – now:** **Ulysses Systems**. I am consulting on an on-going basis for Ulysses Systems as an architect design reviewer for the system applications the company develops in Athens, London, and Mumbai. Ulysses Systems is a software spin-off company of Ulysses, a large maritime company in Greece and UK, that specializes in maritime software for decision support, task assistance and intelligent risk determination.

6. HONORS AND AWARDS

a. Academic Honors

- **Oct. 2015:** *IBM Canada “CAS Faculty Fellow of the Year Award”*.
- **Nov. 2013:** *IBM CAS Research “Project of the Year Award”* for the project “Framework for the Deployment of Legacy Enterprise Services Utilizing the REST Protocol” (2013).
- **Nov. 2010:** *Decade’s High Impact Paper for year 1998* (period 1991- 2010) in ACM CASCON Conference for the paper, K.Kontogiannis, J.Martin, K.Wong, R.Gregory, H.Muller, J.Mylopoulos. 1998, “Code Migration Through Transformations: An Experience Report”. In Proceedings of CASCON'98, Toronto ON. December 1998, pp.1-12.
- **Nov. 2010:** *Most Influential Paper Award* (period 2000 – 2010) in IEEE Working Conference on Reverse Engineering for the paper, Balazinska, E. Merlo, M. Dagenais; B. Lague, K. Kontogiannis, 2000, “Advanced Clone-analysis to Support Object-oriented System Refactoring”. In Proceedings of the Working Conference on Reverse Engineering, 2000 (WCRE 200) November 2000, Brisbane Australia, pp.98 – 107.
- **July 2009:** *Best Student Paper Award* COMPSAC 2009 for the paper, A. Razavi, K. Kontogiannis, 2009, “ProtoTalk: A Generative Software Engineering Framework for Prototyping Protocols in Smalltalk”. In Proc. of 33rd IEEE COMPSAC 2009, Seattle, USA, pp.435-442.

b. Industry Awards

- c. **Jan.2005-Dec. 2006:** IBM Faculty Fellowship Award (\$60,000 USD).
- d. **May 2003:** IBM University Partnership Award (\$40,000 USD).
- e. **Mar. 2003 – Feb.2005:** Elected Member IEEE Distinguished Visitors Program (DVP).
- f. **May 2003:** IBM University Partnership Program Award (\$60,000 USD).
- g. **May 2001:** IBM University Partnership Program Award (\$60,000 USD).

7. INNOVATION AND PATENTS

- *IBM Canada Ltd.* US 20080276229 A1, "INCREMENTAL MODEL REFINEMENT AND TRANSFORMATION IN GENERATING COMMERCE APPLICATIONS USING MODEL DRIVEN ARCHITECTURE" (with student I. Ivkovic et.al). (2008).
- *IBM Canada Ltd.* CA 2465155 and US 20080147981 A1, "RECOMMENDATIONS FOR INTELLIGENT DATA CACHING", (with student C. Mills, D. Crick, M. Tang). (2008).

8. PUBLICATIONS**a. Journal Papers: 13**

- [1] G. Chatzikonstantinou, K. Kontogiannis, 2016, "Run-Time Requirements Verification for Reconfigurable Systems", *Journal of Information and Software Technology*, Elsevier, accepted after major revision and subject to minor revisions (January 10, 2016).
- [2] M. Athanasopoulos, K. Kontogiannis, 2015, "Extracting REST Resource Models from Procedure-oriented Service Interfaces", In *Journal of Systems and Software*, Elsevier, Vol. 100, Feb. 2015, pp. 149-166.
- [3] I. Ivkovic, K. Kontogiannis, 2006, "Towards Automatic Establishment of Model Dependencies Using Formal Concept Analysis". In *International Journal of Software Engineering and Knowledge Engineering*, Vol. 16, No. 4, pp.499-522.
- [4] L. Tahvildari, K. Kontogiannis, 2004, "Improving Design Quality Using Meta-Pattern Transformations: A metric-Based Approach". In *Journal of Software Maintenance and Evolution*. Volume 16, Issue 4-5, July-October 2004, pp.331-361.
- [5] K. Sartipi, K. Kontogiannis, 2003, "A User-Assisted Approach to Component Clustering". In *Journal of Software Maintenance Research and Practice*, John Willey & Sons. Volume 15, Issue 4, pp.265-295.
- [6] L. Tahvildari, K. Kontogiannis, J. Mylopoulos, 2003, "Quality Driven Software Reengineering". In *Journal of Systems and Software*, Vol. 66, No. 3 Elsevier 2003, pp.225-239.
- [7] T. Lau, J. Lu, J. Mylopoulos, K. Kontogiannis, 2003, "Migrating E-commerce Database Applications to an Enterprise Java Environment". In *Information Systems Frontiers*, Vol. 5, No. 2 (2003), Kluwer Academic Publishers, pp.149-160.
- [8] D. Rayside, K. Kontogiannis, 2002, "Extracting Java Library Subsets for Deployment on Embedded Systems". In *Journal Science of Computer Programming*, Elsevier Publishing, pp.245-270.
- [9] W. Kou, D. Lauzon, W. O'Farrell, T.L. See, D. Wee, D. Tan, K. Cheung, R. Gregory, K. Kontogiannis, J. Mylopoulos, 2000, "End-to-end E-commerce Application Development Based on XML Tools". In *IEEE Data Eng. Bull.* 23(1), pp.29-36.

- [10] P. Finnigan, R. Holt, I. Kalas, S. Kerr, K. Kontogiannis, H. Muller, J. Mylopoulos, S. Perelgut, M. Stanley, K. Wong, 1997, "The Software Bookshelf". In IBM Systems Journal, Vol. 36, No.4, 1997, pp.564-594.
- [11] K. Kontogiannis, R. DeMori, E. Merlo, M. Galler, and M. Bernstein, 1996, "Pattern Matching Techniques for Clone Detection". In Journal of Automated Software Engineering, Kluwer Academic Publishers, Vol. 3. pp.77-108.
- [12] E. Buss, R. DeMori, M. Gentleman, J. Henshaw, H. Johnson, K. Kontogiannis, E. Merlo, H. Muller, J. Mylopoulos, S. Paul, A. Prakash, M. Stanley, S. Tilley, J. Troster, and K. Wong, 1994, "Investigating ReverseEngineering Technologies for the CAS program Understanding Project". In IBM Systems Journal, Vol. 33, No. 3, pp.477-500.
- [13] E. Merlo, P.Y Gagnie, J.F Girard, K. Kontogiannis, L. Hendren, P. Panangaden, R. DeMori, 1995. "Re-engineering User Interfaces". In IEEE Software, January 1995, pp.64–73.

b. Special Volumes: 2

- [14] K. Kontogiannis, R. Gregory, 2001, "Customizable Service Integration in Web-Enabled Environments". In Lecture Notes in Computer Science LNCS vol. 1999, Springer-Verlag, pp. 227–243.
- [15] Y. Zou, K. Kontogiannis, 2001, "Migrating and Specifying Services for Web Integration". In Lecture Notes in Computer Science LNCS vol. 1999, Springer-Verlag 2001, pp.244–260.

c. Refereed Book Chapters: 7

- [16] H. Zawawy, S. Mankovskii, K. Kontogiannis, J. Mylopoulos, 2015. "Mining Software Logs for Goal-Driven Root Cause Analysis". In book "The Art and Science of Analyzing Software Data", eds. C. Bird, T. Menzies, T. Zimmermann, Waltham: Morgan Kaufmann, 2015, pp. 519-554.
- [17] M. Athanasopoulos, K. Kontogiannis, 2012. "Considerations of Adapting Service-offering Components to RESTful Architectures". In book "Migrating to SOA and Cloud Environments: Challenges in Service Oriented Architecture and Cloud Computing Environments", eds. A. D. Ionita, G. Lewis and M. Litoiu, IGI Global, 2102, pp.303-331.
- [18] Kontogiannis, 2011, "Techniques for Software Maintenance". In Encyclopedia of Software Engineering. Taylor and Francis Publishers, 2011, pp.482-512.
- [19] K. Sartipi, K. Kontogiannis , 2004, "Software Architecture Analysis and Reconstruction". In book, "Managing Corporate Information Systems Evolution and Maintenance". Idea Group Publishing, 1004, pp.175-183.
- [20] Y. Zou, K. Kontogiannis, 2004, "Re-engineering Legacy Systems to Web-enabled Environments". In book, "Managing Corporate Information Systems Evolution and Maintenance", Idea Group Publishing, Hershey, PA, USA. 2004, pp.138-146.
- [21] K. Kontogiannis, J. Mylopoulos, S. Wu, 2001, "Towards Environment Re-targetable Parser Generators". In book, "Advances in Software Engineering: Topics in Comprehension, Evolution, and Evaluation", Springer-Verlag, New York, 1001, pp.407 - 437.
- [22] L. Tahvildari, K. Kontogiannis , 1999, "Computer Aided Software Engineering". In Encyclopedia of Electrical and Electronics Engineering, John Webster editor. John Willey & Sons Publishers (35 pages).

d. Refereed IEEE/ACM Conference Publications: 65

- [23] G. Chatzikonstantinou, M. Athanasopoulos, K. Kontogiannis, 2014, "Task Specification and Reasoning in Dynamically Altered Contexts", In Proc. of 25th International Conference on Advanced Information Systems Engineering, (CAiSE'14), Thessaloniki, Greece, pp. 625-639. (acceptance rate 18,1%).

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- [24] T. Kalamatianos, K. Kontogiannis, 2014, "Schema Independent Reduction of Streaming Log Data", In Proc. of 25th International Conference on Advanced Information Systems Engineering, (CAiSE'14), Thessaloniki, Greece, pp. 394-408 (acceptance rate 18,1%).
- [25] G. Chatzikonstantinou, K. Kontogiannis, M. Attarian, 2013, "A Goal Driven Framework for Software Project Data Analytics", In Proc. of 25th International Conference on Advanced Information Systems Engineering, (CAiSE'13), Valencia, Spain, pp.546-561. (acceptance rate approx. 18%).
- [26] T. Kalamatianos, K. Kontogiannis, P. Matthews, 2012, "Domain Independent Event Analysis for Log Data Reduction", In. Proc. of the 36th IEEE International Computers, Software and Applications Conference (COMPSAC'12), Izmir, Turkey, pp.350-365.
- [27] A. Razavi, K. Kontogiannis, 2012, "Partial Evaluation for Model Transformations". In Proc. of IEEE International Conference on Software Engineering (ICSE), Zurich, Switzerland, pp.562-572.
- [28] H. Zawawy, K. Kontogiannis, J. Mylopoulos, 2012, "Requirements-Driven Root Cause Analysis Using Markov Logic Networks", In Proc. of 24th International Conference on Advanced Information Systems Engineering, (CAiSE'12), Gdansk, Poland, pp.350-365. (acceptance rate approx. 17%).
- [29] H. Zawawy, K. Kontogiannis, J. Mylopoulos, S. Mankovskii, 2011, "Towards a Requirements-Driven Framework for Detecting Malicious Behavior Against Software Systems" In Proc. of 21st IBM Center for Advanced Studies Conference (CASCON'11), Toronto, ON, Canada, pp.15-29.
- [30] M. Athanassopoulos, K. Kontogiannis, 2010, "Identification of REST-like Resources from Legacy Service Descriptions". In Proc. of IEEE Working Conference on Reverse Engineering (WCRE/10), Oct. 2010, Boston, MA. USA, pp.215-219.
- [31] H. Zawawy, K. Kontogiannis, J. Mylopoulos, 2010, "Log Filtering and Interpretation for Root Cause Analysis" In Proc. of IEEE International Conference on Software Maintenance (ICSM'10), Timisoara, Romania, pp.1-5.
- [32] A. Razavi, K. Kontogiannis, C. Brealey, L. Nigul, 2009, "Incremental Model Synchronization in Model Driven Development Environments". In Proc. of 19th IBM Center for Advanced Studies Conference (CASCON'09), Toronto ON. Canada, pp.210-224.
- [33] A. Razavi, K. Kontogiannis, 2009, "ProtoTalk: A Generative Software Engineering Framework for Prototyping Protocols in Smalltalk" – (**Note: Best student paper award**). In Proc. of 33rd IEEE International Computers, Software and Applications Conference (COMPSAC'09), Seattle, WA, USA, pp.435-442.
- [34] A. Razavi, K. Kontogiannis, 2008. "Pattern and Policy Driven Log Analysis for Software Monitoring". In Proc. of the 32nd IEEE International Computers, Software and Applications Conference (COMPSAC'08), Turku, Finland, pp.108-111.
- [35] K. Kontogiannis, "Challenges and opportunities related to the design, deployment and, operation of Web Services". In 26th IEEE International Conference on Software Maintenance (ICSM'08), FoSM track, October 2008, Beijing, China, pp.11 – 20.
- [36] I. Ivkovic, K. Kontogiannis, 2006, "A Framework for Software Architecture Refactoring using Model Transformations and Semantic Annotations". In Proceedings of IEEE Conference on Software Maintenance and Reengineering (CSMR'06), Bari Italy, pp.135-144.
- [37] I. Ivkovic, K. Kontogiannis, 2005, "Using Formal Concept Analysis to Establish Model Dependencies". In Proceedings of IEEE International Conference on Information Technology (ITCC'05), Volume 2, Las Vegas, NV. UAS, pp.365 – 372.
- [38] R. al Ekram, K. Kontogiannis, 2005, "An XML-based Framework for Language Neutral Program Representation and Generic Analysis". In Proceedings of the IEEE Conference on Software Maintenance and Re-engineering (CSMR'05), Manchester UK, pp.42-51.

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- [39] Y. Zou, T. Lau, K. Kontogiannis, T. Tong, R. McKegney, 2004, "Model Driven Business Process Recovery". In Proceedings of the IEEE Working Conference on Reverse Engineering (WCRE'04), Amsterdam, The Netherlands, pp.224-233.
- [40] L. Tahvildari, K. Kontogiannis, 2004, "Developing a multi-objective decision approach to select source-code improving transformations". In Proceedings of the IEEE International Conference on Software Maintenance (ICSM'04), Chicago IL. USA, pp.427-431.
- [41] I. Ivkovic, K. Kontogiannis, 2004, "Tracing Evolution Changes of Software Artifacts through Model Synchronization". In Proceedings of the IEEE International Conference on Software Maintenance (ICSM'04), Chicago IL. USA, pp.252-261.
- [42] Y. Ping, K. Kontogiannis, T. Lau, 2004, "Refactoring Web Sites to the Controller-centric Architecture". In Proceedings of the IEEE Conference on Software Maintenance and Re-engineering (ICSM'04), Tampere, Finland, pp.204-213.
- [43] R. al Ekram, K. Kontogiannis, 2004, "Source Code Modularization Using Lattice of Concept Slices". In Proceedings of the IEEE Conference on Software Maintenance and Re-engineering (WCRE'04), Tampere, Finland. pp.195-203.
- [44] A. Chin, K. Kontogiannis, 2004, "m-Roam: A Service Invocation and Roaming Framework for Pervasive Computing". In Proceedings of 18th IEEE International Conference on Advanced Information Networking and Applications (AINA'04), Fukuoka, Japan, pp.385-392.
- [45] R. Bannon, K. Kontogiannis, 2003, "Semantic Web Data Description and Recovery". In post conference proceedings of the IEEE Software Technology and Engineering Practice Conference (STEP'03), Amsterdam, The Netherlands, pp.143-152.
- [46] Y. Ping, K. Kontogiannis, T. Lau, 2003, "Transforming Legacy Applications to the MVC Architecture". In post conference proceedings of the IEEE Software Technology and Engineering Practice Conference (STEP'03), Amsterdam, The Netherlands, pp.133-142.
- [47] Y. Zou, K. Kontogiannis, 2003, "Incremental Transformation of Procedural Systems to Object Oriented Platforms". In proceedings of the IEEE International Computer Software and Applications Conference (COMPSAC'03), Dallas TX.USA, pp.290-295.
- [48] K. Sartipi, K. Kontogiannis, 2003, "On Modeling Software Architecture Recovery as Graph Matching". In Proceedings of the IEEE International Conference on Software Maintenance, (ICSM'03), Amsterdam, The Netherlands, pp.224-234.
- [49] L. Tahvildari, K. Kontogiannis, 2003, "A Metric-Based Approach to Enhance Design Quality Through Meta-Pattern Transformations". In Proceedings of the IEEE Conference of Software Maintenance and Reengineering (CSMR'03), Benevento, Italy, pp.183-192.
- [50] Y. Zou, K. Kontogiannis, 2002, "Quality Driven Transformation Compositions for Object Oriented Migration". In Proceedings of the IEEE Asia Pacific Software Engineering Conference (APSEC'02), Brisbane, Australia, pp.346-355.
- [51] L. Tahvildari, K. Kontogiannis, 2002, "A Methodology for Developing Transformations Using Maintainability Soft-Goal Graphs". In Proceedings of the IEEE Working Conference on Reverse Engineering (WCRE'02), Richmond, VA. USA, pp.77-86.
- [52] L. Tahvildari, K. Kontogiannis, 2002, "A Software Transformation Framework for Quality-Driven Object-Oriented Re-engineering". In Proceedings of the IEEE International Conference on Software Maintenance (ICSM'02), Montreal, Canada, pp.596-605.
- [53] Y. Zou, K. Kontogiannis, 2002, "Migration to Object Oriented Platforms: A State Transformation Approach". In Proceedings of the IEEE International Conference on Software Maintenance, (ICSM'02), Montreal, Canada, pp.530 – 539.

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- [54] K. Kontogiannis, D. Smith, L. O'Brien, 2002, "On the role of services in enterprise application integration". In Proceedings of the Software Technology and Engineering Practice (STEP'02), 6-8 Oct. 2002, Budapest, Hungary, pp.103 – 113.
- [55] D. Rayside, K. Kontogiannis, 2002, "A Generic Worklist Algorithm for Graph Reachability Problems in Program Analysis". In Proceedings of the IEEE Conference on Software Maintenance and Reengineering (CSMR'02), Budapest, Hungary, pp.67-76.
- [56] L. Tahvildari, K. Kontogiannis, 2002, "On the Role of Design Patterns in Quality Driven Re-engineering". In Proceedings of the IEEE Conference on Software Maintenance and Reengineering (CSMR'02), Budapest, Hungary, pp.230-240.
- [57] Y. Zou, K. Kontogiannis, 2001, "A Framework for Migrating Procedural Code to Object Oriented Platforms". In Proceedings of the IEEE Asian Pacific Software Engineering Conference (APSEC'01), Hong Kong, China pp.390-399.
- [58] K. Sartipi, K. Kontogiannis. 2001, "A Graph Pattern Matching Approach to Software Architecture Recovery". In Proceedings of IEEE International Conference on Software Maintenance (ICSM'01), Florence Italy, pp.408 – 418.
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e. Refereed IEEE/ACM short papers: 7 (approx. 1 to 4 Transactions pages).

- [88] A. Wasfy, K. Kontogiannis, "Event clustering for log reduction and run time system understanding", In Proc. of ACM Symposium on Applied Computing (SAC'11), Taichung Taiwan, pp.191-192.
- [89] M. Athanasopoulos, K. Kontogiannis, "Identification of REST-like Resources from Legacy Service Descriptions", In Proc. of IEEE Working Conference on Reverse Engineering, Boston, USA, pp.215-219.
- [90] H. Zawawy, K. Kontogiannis, J. Mylopoulos, "Log filtering and interpretation for root cause analysis", In Proc. of IEEE Conference on Software Maintenance, (ICSM'10), Banff, Canada, pp.1-5.
- [91] K. Kontogiannis, D. Smith, G. Lewis, M. Litoiu, E. Stroulia, H. Muller, 2007, "The Landscape of Service Oriented Systems: A Research Perspective". In Proceedings of International Conference on Software Engineering (ICSE'07), Minneapolis, MN. USA, p.1.
- [92] K. Kontogiannis, P. Linos, K. Wong, 2006, "Comprehension and Maintenance of Large-Scale Multi-Language Software Applications". In Proceedings of IEEE International Conference on Software Maintenance (ICSM'06), Philadelphia, PA. USA, pp.497-500.
- [93] I. Ivkovic, K. Kontogiannis, 2005, "Model Synchronization through Pattern-Based Association Grammars" (poster paper). In Proceedings of the IEEE International Conference on Software Maintenance (ICSM'05), Budapest, Hungary p.1.
- [94] I. Ivkovic, K. Kontogiannis, "Model Synchronization as a Problem of Maximizing Model Dependencies". In Proceedings of IEEE International Conference on Object Oriented Programming languages Systems and Languages (OOPSLA'04), Vancouver Canada pp.222-223.

f. Refereed IEEE/ACM Workshop papers: 14

- [95] Nazim H. Madhavji, Andriy V. Miranskyy, Kostas Kontogiannis, "Big Picture of Big Data Software Engineering: With Example Research Challenges". In Proc. of Big Data in Software Engineering IEEE ICSE 2015, pp. 11-14.
- [96] G. Chatzikonstantinou, K. Kontogiannis, "Policy Modeling and Compliance Verification in Enterprise Software Systems: A Survey". In online Proc. of the 6th IEEE International Workshop on the Maintenance and Evolution of Service-Oriented and Cloud-Based Systems, Sept. 2012, Riva Del Garda, Italy (10 pages).
- [97] M. Athanasopoulos, K. Kontogiannis, "Towards an interpretation framework for assessing

- Interface uniformity in REST”, In Proc. of IEEE WS-REST Workshop, WWW’11, pp.47-50.
- [98] V. Koutsoubas, K. Kontogiannis, P. Mathews, “Dynamic Analysis for the Reconstruction of System Behavior Models”, In. Proc. of Second IEEE International Workshop on Computer Forensics in Software Engineering, IEEE COMPSAC 2010, pp. 273, 280.
- [99] K. Kontogiannis, G. Lewis, D. Smith, “The landscape of service-oriented systems: a research perspective for maintenance and Reengineering”, In Proc. of 11th IEEE International Workshop on Service-Oriented Architecture Maintenance and Reengineering, CSMR’07, Amsterdam, the Netherlands, 2007 (8 pages).
- [100] K. Kontogiannis, D. Smith, G. Lewis, M. Litoiu, E. Stroulia, H. Muller, Schuster, 2007, “The Landscape of Service Oriented Systems: A Research Perspective”. In Proc. SDSOA’07, Systems Development in SOA Environments, International Workshop on, Systems Development in SOA Environments, International Workshop on 2007, pp.1-7.
- [101] Y. Zou, K. Kontogiannis, 2003, “Adoption-Centric Software Evolution”. In Proceedings of the IEEE Workshop on Adoption Centric Computing held at ICSE 2003, Edinburgh, Scotland, pp.3-6.
- [102] Y. Zou, K. Kontogiannis , 2001, “Towards an Abstract Syntax Tree Using XML”. In Proceedings of IEEE Workshop on XML and Software Engineering. held at ICSE 2001, May 2001, Toronto, ON. Canada (4 pages).
- [103] Y. Zou, K. Kontogiannis, 2001, “Towards a Web-Centric Legacy System Migration Framework”, In Proceedings of IEEE Workshop on Network Centric Computing, held in conjunction with ICSE 2001, May 2001, Toronto, ON. Canada, (4 pages).
- [104] Y. Zou, K. Kontogiannis, 2000, “Migrating and Specifying Services for Web Integration”.. In working notes of the International Workshop on Engineering Distributed Objects, (EDO’00) June 2000, Davis CA. USA, pp.253-270.
- [105] K. Kontogiannis, R. Gregory, 2000, “Customizable Service Integration in Web-Enabled Environments”. In the working notes of the International Workshop on Engineering Distributed Objects (EDO’00) June 2000 Davis CA. USA, pp.235-252..
- [106] Y. Zou, K. Kontogiannis, 2000, “Localizing and Using Services in Web-enabled Environments”. In the working notes of Workshop on Web Site Evolution, (WSE’00) March 2000, Zurich, Switzerland (4 pages).
- [107] Y. Zou, K. Kontogiannis, 1999, “Enabling Technologies for Web-Based Legacy System Integration”. In the working notes of the Workshop on Web Site Evolution, (WSE’99) October 1999, Atlanta GA. USA (4 pages).
- [108] R. DeMori, K. Kontogiannis, 1995, “Partial Matching for Code Similarity”. International Joint Conference on Artificial Intelligence. In the working notes of the Workshop on Software Engineering and Artificial Intelligence, Montreal, PQ. Canada (5 pages),

9. KEYNOTES AND INVITED TALKS

a. Keynotes:

- “Maintenance and Evolution of Service-Oriented and Cloud-Based Systems”, K. Kontogiannis. Keynote Talk, 8th IEEE International Symposium on Maintenance and Evolution of Service Oriented and Cloud Based Applications 2014, Sept. 2014, Victoria, BC. Canada.

- “Model Driven Evolution of Network-Centric Applications: Perspectives, Challenges, and Issues”, K. Kontogiannis, Keynote Talk, 8th IEEE International Symposium on Web Site Evolution 2006, Sept. 2006, Philadelphia, PA. USA.

b. Recent Invited Talks and Research Presentations:

- "Software Quality Assurance: Principles, Methods, and Emerging Challenges in the Maritime ICT Industry". Invited Talk at ShipIT Conference, Athens, Greece, September 2015.
- “Measuring and Assessing Software Quality: Issues, Challenges and Practical Approaches”. Invited Talk at Digital Ship International Conference, Athens, Greece, November 2014.
- “Identifying REST Resource Models from Procedure-oriented Web Services”. Invited Talk at IBM Toronto Lab, October, 2013.
- “Towards the Adaptation of WS-* Services to REST Architecture”. Invited Talk at IBM Toronto Lab, April, 2013.
- “Techniques for Software Analytics”. Invited Talk on Research in Software Analytics Workshop ACM/CASCON 2012, November 2012.
- “Adapting procedure-oriented systems to REST”. Research presentation at 2nd, Workshop on Leveraging REST in Enterprise Service Systems, ACM/CASCON 2011, November 2011.
- “Information Model for Integrated Root Cause Analysis”. Invited Talk at workshop Integrated system diagnosis and root cause analysis, ACM/CASCON 2010, November 2010.
- “Rest Architecture in the Enterprise: Research Challenges”. Research presentation at Workshop on Issues and Challenges Leveraging REST Architectural Style in Enterprise Service Systems, ACM/CASCON 2010, November 2010.
- “Challenges in Bringing SOA Testing to the Classroom”. Invited Talk at Workshop on Software Testing in the Cloud, ACM/CASCON 2009, November 2009.
- “In-Context Challenges and Research Topics in SOA”. Research presentation at Workshop on SOA Research Challenges: Current Progress and Future Challenges, ACM/CASCON, October 2008.
- “SOA Research Open Issues”. Research presentation at Workshop on SOA Research Challenges: A User Perspective, ACM/CASCON 2007, October 2007.
- “Web Services: Implications to Software Engineering”. Invited Talk Software Engineering Institute, Carnegie Mellon University, January 2005.

10. STUDENTS – TRAINING OF HIGHLY QUALIFIED PERSONNEL (HQP)

<i>NAME</i>	<i>TYPE of TRAINING</i>	<i>YEARS SUPERVISED</i>	<i>THESIS TITLE</i>	<i>PRESENT POSITION</i>
Marios Grigoriou	Ph.D.	2015 –	Efficient Bug Localization to Support Continuous Engineering	NTUA, Greece
Kostas Tzamaloukas	Ph.D.	2015 –	Assessing Trust in Data and Transaction Intensive Systems	NTUA, Greece

Adonis Violaris	Ph.D.	2015 –	Analysis and Evaluation of Large Scale Systems' Architecture	NTUA, Greece
Theodoros Kalamatianos	Ph.D. (In-Progress)	2009 – ETC 05/16	Log Analysis for System Understanding	Google, Zurich
Michalis Athanasopoulos	Ph.D.	2010-2015	Migration of Service Oriented Architectures to REST	NBG, Greece
George Chatzikonstantinou	Ph.D.	2009-2015	Policy Compliance Verification for Multi-Tier Service Systems	OpenBet, Greece
Maria Attarian	M.A.Sc.	2010-2012	Techniques for Project Data Analysis	IBM Lab, Canada
Hamzeh Zawawi	Ph.D.	2007-2012	Log Filtering Techniques for Software Root Cause Analysis	IBM GBS, Canada
Ali Razavi	Ph.D.	2006-2012	Software Model Evolution	Google, USA
Igor Ivkovic	Ph.D.	2003-2011	Model Synchronization Based on Graph Grammars	Lecturer, CS, U. Waterloo, Canada
Tasos Livogiannis	M.A.Sc.	2010-2011	Software Configuration Analysis	MKS, Canada
Ahmed Wasfy	M.A.Sc.	2009-2010	Software Log Data Analysis	Agfa, Canada
Alfred Wong	M.A.Sc.	2005-2007	Workflow Simulation Framework	Microsoft, USA
Nikos Giannopoulos	M.A.Sc.	2005-2007	Software Architectures for Adaptive Systems	Intracom, Greece
Ali Razavi	M.A.Sc.	2003-2006	System Integration in Net-centric environments	Google, USA
Majed Al-Shawa	M.A.Sc.	2003-2006	Enterprise Knowledge Management Framework	Ph.D. student, U. Waterloo, Canada
Stelios Pallis	Research Associate	2003-2005	Infrastructures for Mobile Communication Applications	Rogers Comm. Canada
Kishor Patil	M.A.Sc.	2002-2004	64Bit Architectures: A Compiler's Perspective	IBM Lab, Canada
Andrew Roszko	M.A.Sc.	2001-2004	Next Generation Enterprise Application Integration	CubeRoot, Canada
Cyrus Mills	M.A.Sc.	2001-2004	Analysis of JSP Applications for Efficient Caching	IBM Lab, Canada
Raihan Al-Ekram	M.A.Sc.	2001-2004	Source Code Modularization Using Concept Slices	Research Associate U. Waterloo, Canada
Ryan Bannon	M.A.Sc.	2001-2004	Persona-based Data Utilization	Software Consultant, Canada
Yu Ping	M.A.Sc.	2001-2004	Migration of Legacy Applications to J2EE Environments	SyBase, Canada

Alvin Chin	M.A.Sc.	2001-2003	Service Invocation and Roaming in Pervasive Computing	Nokia, China
Faryaz Kassam	M.A.Sc.	2001-2003	Quality and Constraint based Workflow Composition	IBM Lab, Canada
Gerald Tarcisius	M.A.Sc.	2001-2003	Context Aware Workflows	IBM Lab, Canada
Ladan Tahvildari	Ph.D.	1999-2003	Quality Driven Software Re-engineering	Assoc. Professor, ECE, U. Waterloo, Canada
Ying Zou	Ph.D.	1999-2003	Migration of Procedural Systems to Object Oriented Platforms	Associate Professor Queen's University, Canada
Kamran Sartipi	Ph.D.	1998-2003	Pattern-based Software Architecture Extraction	Assoc. Prof. OIT, Canada
Kelvin Chung	M.A.Sc.	2000-2002	Web-Service Integration System for Collaborative Activities	IBM, Canada
Frankie Poon	M.A.Sc.	1999-2001	Approximate Matching and Structural Modeling for Web Data Integration	PWC, SAR Hong Kong, China
Derek Rayside	M.A.Sc.	1999-2001	A Generalized delta-Wavefront Graph Traversal Algorithm for Data Flow Analysis	Assistant Professor, ECE, U. Waterloo, Canada
Evan Mamas	M.A.Sc.	1998-2000	Integrated Software Maintenance Environment	CEO, Arkbro Industries, Canada
Richard Gregory	M.A.Sc.	1998-2000	Customizable Service Integration Environment	IBM, Canada
Prashant Patil	M.A.Sc.	1997-1999	Migration of Procedural Software Architectures to Object Oriented Architectures	Consultant, USA
Christy Lu	M.A.Sc.	1997-1998	C to RPG Program Adaptation	CA, USA
Shridhar Muthana	M.A.Sc.	1997-1998	Assessing Maintainability of Software Using Metrics	Bell, Canada

11. PROFESSIONAL ENGINEERING AFFILIATIONS AND SERVICE

a. Professional Affiliations:

- Registered Professional Engineer *P.Eng.* (Software Engineering) with Professional Engineers Ontario.
- Member of IEEE since 1997.

b. Conference Organization:

- Program co-Chair of the 15th IEEE Symposium on Web Systems Evolution WSE 2013, held in Eindhoven, The Netherlands, Sept. 2013.
- General Chair of the 12th IEEE Symposium on Web Systems Evolution WSE 2010, held in Timisoara, Romania, Sept. 2010.
- Program Co-Chair of the IEEE Intl. Conference on Software Maintenance ICSM 2009, held in Edmonton AB, Canada, Sept. 2009.
- General Chair of the IEEE Intl. Conference on Software Maintenance and Reengineering CSMR 2008, held in Athens, Greece, April 2008.
- General Chair of the IEEE Intl. Conference on Program Comprehension ICPC 2006 (former International Workshop on Program Comprehension IWPC), held in Athens, Greece, June 2006.
- General Chair of the IEEE Software Technology and Engineering Practice STEP 2005 Conference, Budapest Hungary, Sept 2005.
- Elected member of the Steering Committee of the IEEE International Conference on Program Comprehension (ICPC), 2001 – 2007.
- Elected member of Steering Committee of the IEEE Intl. Conference on Software Technology and Engineering Practice (STEP) 2004 – 2007.
- Elected member of Steering Committee of the IEEE Intl. Conference on Software Maintenance and Reengineering (CSMR) 2009-2012.
- General Chair of the IEEE Software Technology and Engineering Practice STEP 2003 conference, Amsterdam, The Netherlands, September 2003.
- Dagstuhl seminar organizer (with J. Mylopoulos, and J. Ebert) in: Interoperability of Re-engineering Tools, Dagstuhl Event 01041, Dagstuhl, Germany, January 2001,
- Program Chair for the IEEE-Intl. Workshop on Program Comprehension IWPC 2001 conference, Toronto, ON. Canada, May 2001.
- Program Chair Industrial Systems track at IEEE Intl. Conference on Software Engineering ICSE 2001, Toronto ON. Canada, May 2001.

c. Peer Review Service:

- Regular reviewer for various journals and conferences, notably: IEEE Transactions on Software Engineering, ACM Transactions on Software Engineering and Methodology, Journal of Systems and Software, International Journal of Software Engineering and Knowledge Engineering, International Journal of Software Engineering Practice and Experience, International Journal of Science of Computer Programming, IEEE International Conference on Software Maintenance, IEEE International Working Conference on Reverse Engineering, IEEE International Workshop on Program Comprehension.
- Program Committee member in the IEEE International Conference on Advanced Information Systems Engineering (CAiSE'02) conference, the IEEE International Conference on Software Maintenance (2001 – 2004), the IEEE International Conference on Program Comprehension ICPC (1997 – 2004), the IBM Center for Advanced Studies Conference CASCON, (2012, 2013, 2014, 2015), the IEEE Computers Systems and Applications COMPSAC, 2011-2012.
- Reviewer of NSERC grant proposals since 1998 (discovery grants, CRD grants).

d. Department and University Service:**National Technical University of Athens**

- Member of the NTUA Senate Committee for University Libraries (2012-now).
- Head of the ECE Departmental Library, responsible for the operations and management of the library (5,800 books, 5270 Ph.D, M.Sc., Diploma Theses, 2760 book loans in 2012, hosting of the ECE student electronic forum, and the Microsoft ELMS system) (2010 – now).
- Departmental Representative in the NTUA Senate (2010-2011).

University of Waterloo

- E&CE Software Engineering Option Coordinator (Spring 1998 - 2006).
- Member of the Departmental Tenure and Promotion Committee (Spring 2001 – Spring 2003).
- Chair, Departmental Computing Resource Committee (Winter 1999 – Winter 2000).
- Member, Software Engineering Program Design Committee, University of Waterloo (Spring 1999 – 2000).
- Member, Departmental Recruiting Committee (Spring 1999 – Spring 2003).
- Representative of E&CE to the Faculty of Engineering Computing Committee (Spring 1998 – 2000).
- Member of Software Engineering Degree Program, Curriculum Design Committee (Spring 1998 – 1999).
- Member of Associate Dean’s Research and External Partnerships Planning Committee (Fall 2004 – 2005).
- Representative of E&CE Department at University of Waterloo Engineering Faculty Council (Winter 1999 – Winter 2000 and Winter 2005 – Spring 2006).