**Rina Zviel-Girshin** Apr. 2022

**CURRICULUM VITAE**

1. **Personal Details**

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1. **Higher Education**
2. **Undergraduate and Graduate Studies**

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| --- | --- | --- | --- |
| **Period of Study** | **Name of Institution and Department** | **Degree** | **Year of Approval of Degree** |
| 1995–1998 | Open University, Israel Mathematics and Computer Science (CS) Department | BA in Mathematics and CS (cum laude) | 1999 |
| 1999–2002 | PhD research in CS Department, Ben-Gurion University, Israel |  |  |
| 1999–2003 | VNIIFK, Tula University | PhD in Informatics and Education | 2003 |

1. **Academic Ranks and Tenure in Institutes of Higher Education**

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| --- | --- | --- |
| **Dates** | **Name of Institution and Department** | **Rank/Position** |
| 1999–2017 | Computer Science Department, Open University | Merakezet Horaah— Compilation |
| 2005–Present | Ruppin Academic Center, Industrial Engineering Department | Lecturer |

1. **Offices in Academic Administration**

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| --- | --- | --- |
| **Dates** | **Name of Institution and Department** | **Rank/Position** |
| 2012–2014 | Ruppin Academic Center | Head of Information System Program (*hitmahut*) |
| 2011–Present | Ruppin Academic Center | Head of Knowledge Engineering and Robotics Lab |
| 2017–Present | Ruppin Academic Center | Head of Robotics-Oriented Youth Program |
| 2019–Present | Ruppin Academic Center | Head of Software Disciplines, Faculty of Engineering |

1. **Scholarly Positions and Activities Outside of Institutions**

2004–2013: The Israeli Association for Artificial Intelligence (IAAI)—Member and Official

2013: ILAIS 2013 Conference—Co-Chair

2016: Israeli Association of Engineers—Member of “Technologies for Aging Well” group

2016–2020: European Cooperation in Science and Technology (COST) Action “Improving Applicability of Nature-Inspired Optimization by Joining Theory and Practice,” CA15140—Israel Management Committee Member

2019: *International* *Journal of Intelligent Information Systems*—Editorial Board Member

2019–2022: COST Action “European Forum for Advanced Practices,” CA18136—Israel Management Committee Member

2021: KM 2021—Program Committee Member

2021: Chais 2021 Conference—Management Committee Member

2021: ICCBDC2021—Technical Program Committee Member

2021: SIGCSE TS 2022—Program Committee Member

2021–2022: COST Action “Technical and Human Aspects of AI for Secondary School Students

2021–2022: COST Action “NexPA—Next-Generation Intelligent Personal Assistants (A Role of Rapporteur)”—Evaluator, External Expert

2022: EUROCALL2022—Program Committee Member

1. **Participation in Scholarly Conferences**

**A. Active Participation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Date** | **Conference Name** | **Conference Location** | **Subject of Lecture/Discussion** | **Role** |
| 2007 | 5th Annual Conference of MEITAL | Holon, HIT | Automata and formal languages |  |
| 2010 | 4th Conference Initiative for Advancement of Higher Education | Braude College | Integration between creative and critical thinking in computer science |  |
| 2011 | 3rd Engineering Conference | Ruppin Academic Center | Formalization of therapeutic knowledge | Roundtable organizer |
| 2011 | Haifa Verification Conference | Haifa | 1. A new paradigm for IP-conscious SE  2. Maximizing IP in software engineering |  |
| 2013 | ILAIS | Ruppin Academic Center | Exploring user choices in game-based educational software for kindergarten children | Co-chair,  roundtable organizer |
| 2014 | Engineering Conference | Ruppin Academic Center | Challenges in the development of motion-based therapeutic activities for motoric and cognitive disabled children |  |
| 2015 | 5th Conference Initiative for Advancement of Higher Education | Braude College | Use of Lego in teaching object-oriented programming courses | Panel chair |
| 2015 | Industrial Engineering Conference | Ruppin Academic Center | Challenges in teaching information security | Session organizer |
| 2015 | ILAIS | Kiryat Ono College | ICT for education—an OK approach |  |
| 2016 | 4th Kinneret Conference on Software Engineering | Kinneret College | Creativity for the software engineer: a novel organic paradigm with applications |  |
| 2016 | ILAIS | Ben-Gurion University | Dr. Meccano—information system for kids |  |
| 2017 | 5th Kinneret Conference on Software Engineering | Kinneret College | Robotics-based project-oriented SE |  |
| 2017 | 6th Conference Initiative for Advancement of Higher Education | Braude College | Teaching robotics: a paradigm for immediate integration |  |
| 2017 | ILAIS | Bar-Ilan University | “From Casa De Bambini To Digital Playground” |  |
| 2018 | 6th Kinneret Conference on Software Engineering | Kinneret College | Creativity via games in SE course |  |
| 2018 | ILAIS | Shamoon College of Engineering, Ashdod | Enetcollect user model for intelligent gamification crowdsourcing language learning is |  |
| 2018 | ILAIS | SCE, Ashdod | Sustain-all language learning |  |
| 2019 | The 7th Kinneret Conference on Software Engineering | Kinneret College | Crowdsourcing and collective intelligence as a smart resource-gathering tool for SE courses |  |
| 2020 | The 8th Kinneret Conference on Software Engineering | Kinneret College | Enhancing engineer skills via project-based learning in an “Engineering Skills and Thinking” course |  |

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| --- | --- | --- | --- | --- |
| **Date** | **Conference Name** | **Conference Location** | **Subject of Lecture/Discussion** | **Role** |
| 2000 | 3rd European Project Management Conference, PMI | Jerusalem, Israel | Startup Management—A Case Study |  |
| 2003 | Conference on PE and Sport in Modern Environment | Moscow, Russia | A Concept of Fitness Center |  |
| 2003 | International Conference on Problems of Modernization of Educational Process in PE | Volgograd, Russia | System of Rehabilitation using PE for Older Age |  |
| 2003 | 13th International Conference on Man, Health, PE and Sport | Colomna, Russia | System of Training for Optimization of Mobility for the Oldest Old |  |
| 2003 | 5th International Conference on Problems of PE for populations in distress | Gomel, Russia | PE for Older Age |  |
| 2004 | SITE | Atlanta, GA, USA | 1. Teaching an IT Primer to Silver-Haired Teachers  2. IT for Physical Education Teachers | Panel chair |
| 2004 | World Conference on Educational Multimedia, Hypermedia and Telecommunications (EDMEDIA) | Lugano, Switzerland | Web-Based Lab-Oriented Teaching of Internet Programming Course |  |
| 2005 | The 2nd International Congress on Sport and Health | St. Petersburg, Russia | Teaching Computers and Their Implementation Trainers in Advanced Age |  |
| 2011 | IEEE COMCAS | Tell-Aviv, Israel | PlayStation for Elderly Therapy |  |
| 2016 | ICSE2016  TOSE | Austin, TX, USA | Montessori + SE + ICT = SEET:  Using SE to Teach SE |  |
| 2017 | ICCED | London, UK | The Future of CE—From Connected and Smart to… Organized and AI? |  |
| 2018 | enetCollect, 2nd Annual Meeting | Iasi, Romania | Issues of a Personalized and Gamified UI |  |
| 2018 | enetCollect, 2nd Annual Meeting | Iasi, Romania | Teachers and Crowdsourcing: Survey Design |  |
| 2018 | ICIEI | London, UK | Educational Technology for Pre-K Digizens |  |
| 2018 | World Congress of Engineering | London, UK | Child Friendly Robotics | Session chair |
| 2018 | 17th Language And Computation Day | Essex University, UK | Linguistics Apps Development for Second Language Learning |  |
| 2018 | EnetCollect WG3/WG5 Meeting | Leiden, Netherlands | User Model For Intelligent Gamification Crowdsourcing Language Learning IS |  |
| 2018 | EnetCollect WG1 Workshop | University of Gothenburg, Sweden | Teachers’ Willingness to Contribute to Resource Gathering in LL |  |
| 2019 | EnetCollect, 3rd Annual Meeting | Instituto Superior Técnico, Lisbon, Portugal | Crowdsourcing Corpus Cleaning for Language Learning: An Approach Proposal (poster session) |  |
| 2019 | World Congress of Engineering | London, UK | REX Paradigm for Robotic Expert Systems |  |
| 2019 | EUROCALL | Louvain-la-Neuve, Belgium | Crowdsourcing Corpus Cleaning for Language Learning Resource Development |  |
| 2019 | eLex | Sintra, Portugal | Corpus Filtering via Crowdsourcing for Developing a Learner’s Dictionary |  |
| 2019 | EnetCollect WG1 workshop | Coimbra, Portugal | Preliminary Results of Crowdsourcing Corpus Experiment for Cleaning Language Learning Resource Development |  |
| 2019 | EnetCollect 1st WG2/WG4/WG5 Meeting | Malta | Implicit Crowdsourcing Research and Informed Consent: Problem, Opportunity, or Both? |  |
| 2019 | enetCollect WG3 & WG4 Hands-On Workshop on Using LARA to Build Interactive CALL Content | Trnava University, | Educational Software for Learning Hebrew with Gamification and Crowdsourcing |  |
| 2020 | EnetCollect WG1 Meeting | Coimbra, Portugal | Gamification Elements in Educational Software for Learning Hebrew with Crowdsourcing |  |
| 2020 | EFAP WG4 Meeting | Ghent,  Belgium | EFAP Information Gathering Template—Design, Implementation and Presentation |  |
| 2021 | Knowledge Management | Leipzig, Germany [Online] | Autonomous Educational Software for Learning Hebrew with Gamification and Crowdsourcing |  |
| 2021 | ELE | [Online] | Gamifying the Path to Corpus-Based Pedagogical Dictionaries |  |
| 2021 | EUROCALL | Paris, France,  [Online] | Developing Pedagogically Appropriate Language Corpora through Crowdsourcing and Gamification |  |
| 2021 | EURALEX | Greece,  [Online] | Crowdsourcing Pedagogical Corpora for Lexicographical Purposes |  |

**B. Participation as Conference Organizer**

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| --- | --- | --- | --- | --- |
| **Date** | **Conference Name** | **Conference Location** | **Subject and Type of Conference** | **Role** |
| 2011 | 3rd Engineering Conference | Ruppin Academic Center | “Smart House” Panel Session/Discussion | Moderator and Organizer |
| July 2013 | ILAIS | Ruppin Academic Center | “21st Century School” Roundtable | Co-Chair Organizer |
| June 2015 | Industrial Engineering Conference | Ruppin Academic Center | “Information Security in Digital Era” Panel Session | Organizer |

1. **Invited Lectures/Colloquium Talks**

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| --- | --- | --- | --- |
| **Date** | **Conference/Talk Location** | **Name of Forum** | **Presentation Title** |
| Oct 2016 | Ruppin Academic Center | School of Engineering Annual Meeting | Future of Programming |
| Feb 2018 | University of Iceland | Visiting Scholar Talk | Using Robotics to Teach STEM and CS1 |
| Sep  2018 | Queen Mary University of London | School of Electronic Engineering and Computer Science, DALI Project Group, Visiting Scholar Talk | Linguistics Application Development for Second Language Learning |
| Feb 2019 | Instituto Nacional de Saúde Doutor Ricardo Jorge, Porto, Portugal | SheldOn COST Action Annual Meeting, Invited Talk | Training School “IoT for Furniture in Smart Habitats” Insights |
| Feb 2019 | Ruppin Academic Center | The Jewish Agency for Israel Board Meeting, Invited Talk | Educational Robotics |
| Jun  2019 | Emek Hefer Reginal Council | Robotics Week Summary, Minister of Science, Technology and Space Ofir Akunis, Head of Emek Hefer Concil, Galit Shaul and Other Invited Guests, Invited Talk | Robotics and Technology Education in Kindergartens and Primary Schools (Presentation about Research Outcomes) |
| Dec 2019 | KAKAL Conference | KAKAL Seminar, “Center and Periphery— JNF for strengthening the periphery,”  Kakal, Nof Galil, Israel, Ruppin Academic Center Panel, Invited Talk | Students for Community: Access to Engineering Knowledge and Empowerment of Youth at Risk |
| March 2020 | Kauno Kolegija/University of Applied Sciences, Kaunus, Lithuania | Faculty of Technologies, University of Applied Sciences, Visiting Scholar Invited Talk | Boosting Students’ Creativity by Adding Gamification Principles to Software Engineering Course |
| Oct 2020 | enetCollect | Online, 1st enetCollect webinar, Invited Speaker | A Practical Guide to STSM |
| Nov 2020 | Ruppin Academic Center | Faculty of Engineering Seminar, Invited talk | Crowdsourcing and Production of Language Learning Materials |
| Dec  2021 | LLCE | Online, Guest Speaker, | Integrating robots into language education |
| Feb 2022 | Ruppin Academic Center Excellence Unit Workshop | Online, Guest Speaker | Integration of Quizzes (Active Learning) in Programming Courses Lectures: When, Where and How? |

1. **Research Grants**

**A. Grants Awarded**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Year** | **Co-Researchers** | **Topic** | **Amount Awarded, Awarding Body** | **Role** |
| 2002–2003 |  | Design of online educational organic internet-programming system | 29,000 SH, Magbit Canada | PI |
| 2005–2007 | Dr. Mark Trakhtenbrod, Prof. Judith Gal-Ezer, Dr. Vladimir Nudelman | Design of visual tools in distance teaching of Automata course | 80,000 SH, VATAT |  |
| 2014–2015 |  | ICT organic learning environment—the field tests stage | 8000 SH, Ruppin | PI |
| 2018 |  | Definition and building a prototype for learning environment for a chapter in the field of industrial robotics | 4591 SH, Ruppin | PI |
| 2018 |  | Investigation of user interfaces (UIs) from the point of view of personalization and gamification | 2000 EUR, STSM, COST  (University of Iceland) | PI |
| 2018 |  | Investigation of gamification of crowdsourcing language learning from the point of view of practical applicative design of intelligent UI and using various AI techniques | 1800 EUR, STSM, COST  (Open University of Cyprus) | PI |
| 2018 |  | Investigation of collective intelligence of the end users in Gamified Crowdsourcing Language Learning platform | 2200 EUR, STSM, COST  (Essex University) | PI |
| 2019 | Tanara Zingano Kuhn, Peter Dekker, Branislava Šandrih | Crowdsourcing corpus cleaning for language learning resource development—next steps and experiments | 350 EUR, COST  (Lisbon University) | PI |
| 2020 | Alex Raskin, Amit Elia | Participation in enetCollect—CrowdFest 2020 | 850 EUR, COST  (Coimbra University) | PI |
| 2020 |  | Workshop, “Creativity in Software Engineering and Gamification Principles” | 1200 EUR, Erasmus+  (Kauno kolegija / University of Applied Sciences, Faculty of Technologies Lithuania) | PI |

**B. Submitted Research Proposals—Pending**

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| --- | --- | --- | --- | --- |
| **Year** | **Co-Researchers** | **Topic** | **Amount Awarded, Awarding Body** | **Role** |
|  |  |  |  | None |

**C. Research Proposals Submitted but Not Funded**

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| --- | --- | --- | --- | --- |
| **Year** | **Co-Researchers** | **Topic** | **Amount Awarded, Awarding Body** | **Role** |
| 2015 | Prof. David Mahalel (Technion), Prof. Shizaf Rafaeli, Dr. Dafna Raban (Haifa University), Dr. Ayelet Gal-Zur (Ruppin) | 3Ds—The Contribution of Digital Games to Drivers’ Decision-Making | 1,800,000 SH, Ministry of Science, Technology and Space | PI |
| 2017 |  | Development Robotics Tools for Teachers Education (Ministry of education project) | 15,000 EUR, CS4HS Google | PI |
| 2018 | Dr. Michal Isaacson, Dr. Carmit-Noa Shpiglmen (Haifa University) | The Impact of Advanced Communication Technologies on Social Connectivity and Subjective Wellbeing Among Aging Population | 250,000 SH, Ministry of Science, Technology and Space | PI |

**9. Scholarships, Awards, and Prizes**

2003: IDC, “Excellence for Teaching Activity in 2002”

2014: Ruppin Academic Center, “2013 Provost’s Teaching Excellence Award”

2018: ICIST 2018, London, “Best Presentation” award for “Educational Technology for Pre-K Digizens”

2018: International Conference of Computational Intelligence and Intelligent Systems 2018 (part of World Congress of Engineering 2018 for “Child Friendly Robotics”), “Certificate of Merit” award

**10. Teaching History**

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| --- | --- | --- | --- | --- |
| **Year** | **Name of Course** | **Type of Course/Lecture, Institution** | **Degree** | **Number of Students** |
| 1999–2022 | Compilation | High Learn Course, Open University, Ruppin Academic Center, Tel-Aviv University | First | 30–70 |
| 1999 | Introduction to Programming with C | Introduction Course (Mandatory), Ort Braude | First | 50 |
| 1999–2008 | Operation Systems | Lecture (Mandatory), Jordan Valley College, Ruppin | First | 40 |
| 1999–2008 | Software Engineering | Lecture (Mandatory), Jordan Valley College, Ben-Gurion University, Ruppin | First | 40 |
| 1999–2004 | Internet Programming | Lecture (Mandatory), Jordan Valley College | First | 40 |
| 1999–2004 | Data Structures and Algorithms | Lecture (Mandatory), Jordan Valley College, Technion | First | 40 |
| 2000–2003 | Introduction to Programming with Java | Introduction Course (Mandatory), Inter Disciplinary Center, IDC Herzlia | First | 60 |
| 2000–2004 | Advanced Topics in Internet Programming | Lecture, Jordan Valley College | First | 40 |
| 2000–2001 | Data Structures and Algorithms | Lecture (Mandatory), Technion | First | 60 |
| 2002 | Compilation | High Learn Course, Inter Disciplinary Center, IDC Herzlia | First | 50 |
| 2002–2004 | Distributed Information Systems | High Learn Course, Technion | First | 60 |
| 2003–2008 | Automata and Formal Languages | Lecture (Mandatory), Inter Disciplinary Center, IDC Herzlia | First | 60 |
| 2003–2012 | Data Bases | Lecture (Mandatory), Inter Disciplinary Center, IDC Herzlia | First | 60 |
| 2003 | Computer and Communication Fundamentals | Introduction Course (Mandatory), Inter Disciplinary Center, IDC Herzlia | First | 100 |
| 2005–2008 | Web Application Development | Lecture (Mandatory), Inter Disciplinary Center, IDC Herzlia | First | 40 |
| 2006–2017 | Networks and Application Development | Lecture (Mandatory), Inter Disciplinary Center, IDC Herzlia | First | 60 |
| 2006–2008 | Advanced Topics in IP | High Learn Course, Holon Institute of Technology, HIT | First/Second | 60 |
| 2007–2008 | High Speed Networks | Lecture (Mandatory), Holon Institute of Technology, HIT | Second | 40 |
| 2007–2022 | Programming Basics with C++ | Lecture (Mandatory), Ruppin Academic Center | First | 160 |
| 2010–2011 | C# | Sadna (Workshop), Ruppin Academic Center | First | 60 |
| 2012–2018 | Communication Networks and Information Security | Lecture (Mandatory), Ruppin Academic Center | First | 60 |
| 1999–2008 | Software Engineering | Lecture (Mandatory), Jordan Valley College, | First | 40 |
| 1999–2008 | Software Engineering | Lecture (Mandatory), Jordan Valley College, Ben-Gurion University, Ruppin Academic Center | First | 40 |
| 2013–2022 | OOP in C++ | Lecture (Mandatory), Ruppin Academic Center | First | 40 |
| 2015–2019 | Advanced Topics in C Language | Lecture (Mandatory), Ruppin Academic Center | First | 40 |
| 2017–2022 | Software Engineering in C# | Lecture (Mandatory), Ruppin Academic Center | First | 180 |
| 2018–2022 | OOP in C# | Lecture (Mandatory), Ruppin Academic Center | First | 40 |
| 2019–2020 | Automata and Formal Languages | Lecture (Mandatory), Reichman University (former IDC Herzlia)  One of the groups *in English* | First | 250 |
| 2019–2020 | Engineering Skills and Thinking | Lecture (Mandatory), Ruppin Academic Center | First | 40 |
| 2019–2022 | Data Communication Networks | Lecture (Mandatory), Ruppin Academic Center | First | 60 |

**11. Miscellaneous**

NONE

**12. Professional Experience**

2016–2019: Academic adviser and organizer of “Robotics and Technology in Kindergarten and Elementary Schools” program, Emek Hefer and Zemer Council.

2016–2020: Academic adviser and member of the organizing committee for “Robotics and Technology in Kindergarten and Elementary Schools” program, Emek Hefer.

2020–2021: Academic adviser and developer of the “Automata and Formal languages” course for the ADVA program, which trains ultra-religious students to be practical software engineers

**13 Publications**

**A. PhD Dissertation**

*Knowledge Systems: Means and methods of fitness training of the senior age group*, 2003, 127 pages, Russian, VNIIFK, Tula University, Prof. B. Shustin, Dr. O. Tuinova.

**B. Scientific Books (Refereed)**

Compilation, Teaching Guide, 2010 (in Hebrew), Open University, Israel.

**C. Other Scientific Publications**

**D. Published Articles in Refereed Journals**

Zviel-Girshin, R. (2005). Web search as interactive learning environment for graduation projects. *Journal of Interactive Learning Research*, *16*(1), 21–30.

**E. Articles or Chapters in Scientific Books (Excluding Conference Proceedings)**

NONE

**F. Articles Published in Conference Proceedings**

1. Zviel-Girshin, R. (2003). PE for older age. *5th International Conference on Problems of PE for populations in distress.* Gomel, 175.

2. Zviel-Girshin, R., & Rosenberg, N. (2019). REX Paradigm for Robotic Expert Systems. *Lecture Notes in Engineering and Computer Science: Proceedings of The World Congress on Engineering*. London, U.K., 54–58.

3. Zingano Kuhn, T., Dekker, P., Šandrih, B., Zviel-Girshin, R., Arhar Holdt, Š., & Schoonheim, T. (2019). Crowdsourcing corpus cleaning for language learning resource development. In S. Bibauw. *EUROCALL Conference 2019 “CALL and Complexity”: Book of Abstracts*. Louvain-la-Neuve: European Association of Computer Assisted Language Learning, 159.

4. Zingano Kuhn, T., Todorović, B.Š., Holdt, Š.A., Zviel-Girshin, R., Koppel, K., Luís, A.R., & Kosem, I. (2021). Crowdsourcing pedagogical corpora for lexicographical purposes. In *Proceedings of XIX EURALEX Congress: Lexicography for Inclusion*, Vol. II. Democritus University of Thrace, 771–779.

5. Zviel-Girshin, R., Kuhn, T. Z., Luís, A. R., Koppel, K., Todorović, B. Š., Holdt, Š. A., Tiberius, C., & Kosem, I. (2021). Developing pedagogically appropriate language corpora through crowdsourcing and gamification. *CALL and Professionalisation: Short Papers from EUROCALL 2021*. 312.

**G. Entries in Encyclopedias**

NONE

**H. Other Scientific Publications**

1. Girshin, M., & Rosenberg, N. (1998). Legal Expert Systems. Academics (in Hebrew).

2. Girshin, M. (1998). Fitness at the Golden Age. Mishan (in Hebrew).

3. Girshin, M., & Rosenberg, N. (1999). Data Structures in C. Ort (in Hebrew).

**I. Nonscientific Publications**

NONE

**J. Other Works Connected with my Scholarly Field**

*Booklets and Course Materials*

*Software Engineering*, 1999, Jordan Valley College

*Operating Systems*, 2000, Jordan Valley College

*Software Engineering*, 2000, Ben-Gurion University

*Systems Development with Java*, 2001, Interdisciplinary Center, Herzlia

*Software Engineering with C++,* 2001, Technion

*Communication and Networks*, 2003, Interdisciplinary Center, Herzlia

*Algorithms Programming with Java*, 2003, Jordan Valley College