

# SOFTWARE ENGINEERING *notes*

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# SOFTWARE ENGINEERING NOTES

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**Software Engineering Notes** is an informal publication of the ACM Special Interest Group on Software Engineering (SIGSOFT) concerned with the cost-effective, timely development and maintenance of high-quality software. Relevant topics include requirements, specification, design and implementation methods, software maintenance, reuse, and re-engineering, quality assurance, measurement and evaluation, software processes, automated tools, and practical experience, etc. SIGSOFT seeks to address research and development issues in these areas and to provide a common ground for both, through sponsorship of conferences, symposia and workshops, the publication of SEN, and the dissemination of information via the SIGSOFT member email distribution list.

**SIGSOFT** sponsors an annual conference, Foundations of Software Engineering (FSE), in the Fall and co-sponsors the International Conference of Software Engineering (ICSE) in the Spring, in addition to sponsoring several workshops and symposia each year on specialized and timely topics.

**Material for publication** in SEN should be submitted to the editor electronically as a .txt, .doc, or .tex file. Paper and reports should use the LaTeX or Word format available at <http://www.acm.org/sigsoft/SEN/subpub.html>. CFPs and Advance Programs for SIGSOFT sponsored or in cooperation events may be submitted as .pdf files with all fonts embedded. Because only the abstracts of papers and reports will appear in the print issue of SEN, authors should review their abstract to make sure it reflects the key points addressed in the document, which will appear in full in the ACM Digital Library.

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# Letter from the Chair

## God Put A Smile Upon Your Face<sup>1</sup>

Will Tracz

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*Where do we go nobody knows?*

Where do you want to go this year? Where did 2014 go? There were two great conferences that I was fortunate to attend: ICSE in Hyderabad and FSE in Hong Kong! Many thanks to Shing-Chi Cheung, Alex Orso, Peggy Storey and the entire FSE organizing and program committees for achieving a technically rewarding and fun conference that set new attendance and submission records (as well as having the lowest registration cost).

*I've gotta say I'm on my way down*

As I look back, I can't help but look forward, maybe I should say I am looking forward to the end of my tenure as I wind down my time as SIGSOFT chair. I would like to thank David Rosenblum for putting together a terrific slate of candidates for the next set of officers. It will be hard for the membership to decide who to vote for; at least I know it will be hard for me.

*God give me style and give me grace*

*God put a smile upon my face*

That smile that is on my face is from all the fond memories I have from serving as your chair. I have been blessed with a talented and helpful team of SIGSOFT officers as well as volunteers. In particular I would like to express my sincere gratitude to Mike Wing, the editor of SEN, Ajay Jain, the production editor, and associate editors, Sujoy Gupta and Peter Harris. In addition I would like to acknowledge the hard work of Roshanak Roshandel at Seattle University, our Conference Aid Program for Students (CAPS) Coordinator from 2006-2015. I know the hundreds of SIGSOFT student members who received travel support to SIGSOFT-sponsored conferences during that time also appreciate her efforts. It goes without saying that I am grateful to Wei Le at Iowa State University for volunteering to serve as the new CAPS Coordinator, and for suggestion changes in the application process and infrastructure.

*Where do we go to draw the line?*

Unfortunately in September we had to draw the line on SEN paper submissions because of three issues: high-volume, low-quality, and rampant plagiarism. At times we were receiving 20+ papers per week (that isn't a typo! 20 per week – not per month – not per issue). It would be one thing if the papers were well-written, but the vast majority were from first time authors who were in dire need of copy editing for readability (and that often times the authors assumed would be provided). Then there were the too often cases of sentences, paragraphs, and even whole papers that were “reused” verbatim (or we could say improperly cited). Needless to say it was time consuming to check for these problems and then to recheck – or ... I think you get the picture. We shut down submissions to properly clear the backlog and, as soon as the new submission site is available, we will be

establishing new submission and review guidelines, as well as looking for reviewers to join the SEN review board as associate editors.

*I've gotta say I wasted all your time*

I hope not! I know I have been a bit verbose at times, but there has been a lot happening. Speaking of time – one of the new benefits that has been added to SIGSOFT members this year is targeted to those members who have been members for a long time, in particular what ACM call “retired”<sup>2</sup> SIGSOFT is now offering discounted membership rates (i.e., same as student membership rates) for retired members who have been SIGSOFT members for the last 10 years and at least 60 years old. SIGSOFT sponsored conference will apply this policy to conference registration fees also with opportunities for retired members to mentor / network with students in attendance.

*Where do I go to fall from grace?*

*God put a smile upon your face, yeah*

What puts a smile on my face is acknowledging the awards SIGSOFT memberships have received. In particular:

- Mary Shaw received the National Medal of Technology and Innovation from President Barack Obama at the White House last November  
[http://www.youtube.com/watch?v=uMC3qefV/ktc&list=UUYxRlFDqcW\\_M4y7FfpAN3KQ](http://www.youtube.com/watch?v=uMC3qefV/ktc&list=UUYxRlFDqcW_M4y7FfpAN3KQ)
- 2014 ACM Distinguished Scientist: Robyn Lutz
- 2014 ACM Distinguished Educator: Jeff Gray and Judith Bishop

*Now, when you work it out I'm worse than you*

Speaking of work – I found an interesting article in *Computerworld* describing the “10 hottest IT Skills” <http://www.computerworld.com/article/2844020/careers/10-hottest-it-skills-for-2015.html>. I know IT is not the focus of much Software Engineering research – but I would argue that Software Engineering has a lot to offer to IT. That said, here is the list, with last year's ranking parenthetically shown.

1. (1) Programming/application development
2. (5) Project management
3. (2) Help desk/technical support
4. (7) Security/compliance governance
5. (not listed last year) Web development
6. (6) Database administration
7. (8) Business intelligence/analytics
8. (4) Mobile applications and device management
9. (3) Networking
10. (11) Big data

*Yeah, when you work it out I wanted to*

Did anyone participate in this years “Hour of Code”? I wanted to. According to [code.org](http://code.org), over 91.5 million people have “tried and Hour of Code” with over 4,522 million lines of code written by students (as of the beginning of 2015). Somehow I wonder if SIGSOFT could get them to change their slogan: “Every student in every school should have the opportunity to learn computer science.” to “Every student in every school should have the opportunity to learn software engineering.”? But I am biased :-)

*Now, when you work out where to draw the line*

<sup>1</sup>Music and lyrics by **Coldplay** - Christopher Anthony John Martin, Guy Rupert Berryman, William Champion, Jonathan Mark Buckland.

<sup>2</sup> Being “retired” myself, I think “tired” is a better term.

Speaking of work, I saw another article in IEEE Spectrum that cited the top programming languages in December 2014 compared to 2013. I just found it interesting

(<http://www.tiobe.com/index.php/content/paperinfo/tpci/index.html>)

1	1	C	17.588%	-0.30%
2	2	Java	14.959%	-2.35%
3	3	Objective-C	9.130%	-1.07%
4	4	C++	6.104%	-2.16%
5	5	C#	4.328%	-1.29%
6	6	PHP	2.746%	-2.53%
7	10	JavaScript	2.433%	+0.58%
8	8	Python	2.287%	+0.08%
9	11	Visual Basic .NET	2.235%	+0.55%
10	12	Perl	1.826%	+0.75%

*Your guess is as good as mine*

What will 2015 bring? Your guess is as good as mine. I am curious about the DARPA-funded PLINY<sup>3</sup> project ([www.techbriefs.com/tv/PLINY](http://www.techbriefs.com/tv/PLINY)) of “taking all the available code in the world and putting it in a data base.” Then using it to “help programmers write new code or fix old code.” I guess this is consistent with what Steve Ballmer, the former Microsoft CEO, is saying that machine learning will be the focus of the next era of computer science. Whatever. If you have any new ideas or old ones whose day will come – please fire at...

*Will*

## Letter from the Editor

Michael Wing

[editors\\_sigsoft@acm.org](mailto:editors_sigsoft@acm.org)

Welcome to the January 2015 issue of SEN.

This is the biggest issue that I have worked on so far. We have columns from Mark, Bob, Alex, Peter, and Tao. Mark writes about estimating projects in our modern world, where applications are concoctions of many languages. Bob writes about the ironies of complying with rules. Alex links software to James Joyce, Samuel Beckett, and Ezra Pound. (You may have read it to believe). And of course Peter writes about the dangers of software. We also have Tao's new column about the history of SE and we hope it becomes a regular feature.

We also have 13 regular papers, seventeen workshop papers, five workshop reports, two book reviews, Daniela's calendar, and Ahmed's book list.

This issue has been humbling for me, because I am disappointed to say that we have called a moratorium on paper submissions. The set of papers in this issue is the largest collection I have ever accepted in spite of the fact that for months, no authors were given second chances to revise their papers. We simply received too many papers and nobody had enough time to do the work.

<sup>3</sup> Part of the DARPA Mining and Understanding Software Enclaves (MUSE) program. BTW, Pliny the Elder is the Roman author who wrote the first encyclopedia – it is also the name of a Double India Pale Ale made by Russian River Brewing Company.

I remember sadly when SIGPLAN Notices stopped taking papers. I am very sad that this happened to SEN on my watch. When we figure out how to do the work, we will resume taking papers.

But for now, please enjoy the issue.

Michael Wing

*Mike*

	Report Title/Author	Pg
1	<b>Devising the Future of the Models@run.time Workshop</b> Sebastian Götz, Nelly Bencomo and Robert France	26
2	<b>Software Architecture Patterns: Reflection and Advances</b> [Summary of the MiniPLoP Writers' Workshop at ECSA'14] Neil B. Harrison, Uwe van Heesch, Stefan Sobernig, Peter Sommerlad, Martin Filipczyk, Alexander Fülleborn, Angelika Musil and Juergen Musil	30
3	<b>ACM History Committee Archiving Workshop</b> Thomas J. Misa	35
4	<b>SEES Summary: Software Engineering Educators Symposium 2014</b> Chang Xu, Laura Dillon	38
5	<b>A Report on Software Engineering Education Workshop (SEEW) 2014 Co-Located with Asia-Pacific Software Engineering Conference 2014</b> Ashish Sureka, Y. Raghu Reddy, Masateru Tsunoda	40

Table 1: SEN Volume 40 Number 1 Reports

	Software Mining Workshop Papers Title/Author	Pg
1	<b>Improving Software Quality and Productivity Leveraging Mining Techniques</b> [Summary of the Second Workshop on Software Mining, at ASE 2013] Ming Li, Hongyu Zhang, David Lo and Lucia	44
2	<b>Automata-based Pattern Mining from Imperfect Traces</b> Giles Reger, Howard Barringer and David Rydeheard	44
3	<b>Interaction Traces Mining for Efficient System Responses Generation</b> Miao Du, Steve Versteeg, Jean-Guy Schneider, Jun Han, and John Grundy	44
4	<b>Comparing Incremental Latent Semantic Analysis Algorithms for Efficient Retrieval from Software Libraries for Bug Localization</b> Shivani Rao, Henry Medeiros, and Avinash Kak	44
5	<b>Calling Network: A New Method for Modeling Software Runtime Behaviors</b> Yu Qu, Xiaohong Guan, Qinghua Zheng, Ting Liu, Jianliang Zhou and Jian Li	45
6	<b>Towards a Model-based Software Mining Infrastructure</b> Philip Makedonski, Fabian Sudau and Jens Grabowski	45
7	<b>On Incomplete Bug Fixes in Eclipse and Programmers' Intuition on These</b> Sabih Agbaria and Joseph (Yossi) Gil	45
8	<b>Achieving Effective Test Suites for Reactive Systems using Specification Mining and Test Suite Reduction Techniques</b> Prasad Bokil, Padmanabhan Krishnan and R. Venkatesh	45

Table 2: SEN Volume 40 Number 1 Software Mining Workshop Papers



	JPF Workshop Papers Title/Author	Pg
1	<b>Concurrent Bounded Model Checking</b> Quoc-Sang Phan, Pasquale Malacaria and Corina Pasareanu	46
2	<b>From Test Purposes to Formal JPF Properties</b> Simone Hanazumi, Ana C. V. de Melo and Corina S. Păsăreanu	46
3	<b>Symbolic Execution for Checking the Accuracy of Floating-Point Programs</b> Jaideep Ramachandran, Corina Păsăreanu and Thomas Wahl	46
4	<b>Improving Coverage of Test Cases Generated by Symbolic PathFinder for Programs with Loops</b> Rody Kersten, Suzette Person, Neha Rungta and Oksana Tkachuk	46
5	<b>Minimizing the Size of Path Conditions Using Convex Polyhedra Abstract Domain</b> Justin Lloyd and Elena Sherman	47
6	<b>JPF Verification of Habanero Java Programs using Gradual Type Permission Regions</b> Peter Anderson, Nick Vrvilo, Eric Mercer and Vivek Sarkar	47
7	<b>Verification of Architectural Constraints on Sequences of Method Invocations</b> Stuart Siroky, Rodion Podorozhny and Guowei Yang	47
8	<b>Generation of Library Models for Verification of Android Applications</b> Heila van der Merwe, Oksana Tkachuk, Brink van der Merwe and Willem Visser	47
9	<b>The Dart, the Psycho, and the Doop</b> <b>Concolic Execution in Java PathFinder and its Applications</b> Marko Dimjašević, Dimitra Giannakopoulou, Falk Howar, Malte Isberner, Zvonimir Rakamarić, Vishwanath Raman	48

Table 3: SEN Volume 40 Number 1 JPF Workshop Papers

	SEN Regular Papers Title/Author	Pg
1	<b>A Measures and Metrics Framework for Software Safety</b> P.V. Srinivas Acharyulu and P. Seetharamaiah	48
2	<b>Modern Enterprises in the Bubble: Why Big Data Matters</b> Enrico Giacinto Caldarola, Antonio Picariello and Daniela Castelluccia	48
3	<b>Incorporating Security Features in Service-Oriented Architecture using Security Patterns</b> Ashish Kumar Dwivedi and Santanu Kumar Rath	48
4	<b>Software Architecture Recovery using Genetic Black Hole Algorithm</b> Kawal Jeet and Renu Dhir	49
5	<b>A Proactive Procedure to Mitigate the BYOD Risks on the Security of an Information System</b> Rakesh Kumar and Hardeep Singh	49
6	<b>Programming Languages shouldn't be "too Natural"</b> Dino Mandrioli and Matteo Pradella	49
7	<b>Empirical Study of Agile Software Development Methodologies: A Comparative Analysis</b> Gurpreet Singh Matharu, Anju Mishra, Harmeet Singh and Priyanka Upadhyay	49
8	<b>Development of a Multi-Agent Framework for Software Quality</b> Muhammed Maruf Öztürk, İbrahim C'IL and Ahmet Zengin	50
9	<b>Use of Semi-Formal and Formal Methods in Requirement Engineering of ILMS</b> Souvik Sengupta and Ranjan Dasgupta	50

10	<b>Design of a Component Interface Complexity Measurement Tool for Component-Based Systems</b> Jawwad Wasat Shareef and R. K. Pandey	50
11	<b>A Literature Review of the Reliability of Composite Web Service in Service-Oriented Architecture</b> Neha Singh and Kirti Tyagi	50
12	<b>Modeling of Safety-Critical Systems Using Petri Nets</b> B. Esther Sunanda and P. Seetharamaiah	51
13	<b>Software Development Roles: A Multi-Project Empirical Investigation</b> Murat Yilmaz, Rory V. O'Connor and Paul Clarke	51

Table 4: SEN Volume 40 Number 1 Papers

## Top 10 Downloaded Articles

(past 6 weeks)

<http://dl.acm.org/sig.cfm?id=SP950>

1. **WikiBrain: Democratizing computation on Wikipedia** – 2014 Shilad Sen, Toby Jia-Jun Li, WikiBrain Team, Brent Hecht. Downloaded 253 (new) times
2. **Conflict management** – 2009, Kresimir Popovic, Zeljko Hocenski. Downloaded 207 (new) times
3. **Software engineering issues for mobile application development** – 2010, Anthony I. Wasserman. Downloaded 205 (new) times
4. **Software development lifecycle models** – 2010, Nayan B. Ruparelia. Downloaded 200 (127) times
5. **Case studies for software engineers** – 2006, Dewayne E. Perry, Susan Elliott Sim, Steve Easterbrook. Downloaded 162 (new) times
6. **Install anywhere tutorial and reference guide by Zero G Team** – 2010, Sonal Dekhane. Downloaded 139 (new) times
7. **Scratchpad memory: design alternative for cache on-chip memory in embedded systems** – 2002, Rajeshwari Banakar, Stefan Steinke, Bo-Sik Lee, M. Balakrishnan, Peter Marwedel. Downloaded 137 (new) times
8. **Managing the development of large software systems: concepts and techniques** – 1987, W. W. Royce. Downloaded 132 (new) times
9. **Exploiting undefined behaviors for efficient symbolic execution** – 2014, Asankhaya Sharma. Downloaded 128 (new) times
10. **Software, performance, or engineering?** – 2002, Daniel A. Menascé. Downloaded 123(new) times

## Top 10 Most Cited Articles

1. **Foundations for the Study of Software Architecture** – 1992, Dewayne E. Perry, Alexander L. Wolf. Cited 490 (489) times.
2. **Bandera: Extracting Finite-State Models from Java Source Code** – 2000, James C. Corbett, Matthew B. Dwyer, John Hatcliff, Shawn Laubach, Corina S. Păsăreanu, Robby, and Hongjun Zheng. Cited 394 (393) times.
3. **N Degrees of Separation: Multi-dimensional Separation of Concerns** – 1999, Peri Tarr, Harold Ossher, William Harrison, Stanley M. Sutton, Jr. Cited 387 (385) times.

4. **CUTE: a Concolic Unit Testing Engine for C** – 2005, Koushik Sen, Darko Marinov, and Gul Agha. Cited 378 (359) times.
5. **Dynamo: a Transparent Dynamic Optimization System** – 2000, Vasanth Bala, Evelyn Duesterwald, Sanjeev Banerjia. Cited 347 (346) times.
6. **Interface Automata** – 2001, Luca de Alfaro, Thomas A. Henzinger. Cited 347 (345) times.
7. **Patterns in Property Specifications for Finite-State Verification** – 1999, Matthew B. Dwyer, George S. Avrunin, James C. Corbett. Cited 308 (302) times
8. **Program Slicing** – 1981, Mark Weiser. Cited 265 (263) times.
9. **Automatically Validating Temporal Safety Properties of Interfaces** – 2001, Thomas Ball, Sriram K. Rajamani. Cited 249 (249) times.
10. **Software Processes are Software Too** – 1987, L. Osterweil. Cited 237 (236) times.

## SEN Reviewers Wanted

The following table lists books that are available free to SIGSOFT members for review. Go to <http://www.sigsoft.org/SEN/bookreview.html> for an up-to-date list, as the list changes frequently, with new reviewer requests, and new books being sent from publishers.

<i>Processes &amp; Engineering</i>	
<i>Agile and Lean Service-Oriented Development: Foundations, Theory, and Practice</i>	Xiaofeng Wang, Nour Ali, Isidro Ramos, and Richard Vidgen
<i>Disciplined Agile Delivery: A Practitioner's Guide to Agile Software Delivery in the Enterprise</i>	Scott Ambler and Mark Lines
<i>Design, Architecture, and Patterns</i>	
<i>Design Research Through Practice: From the Lab, Field, and Showroom</i>	Ilpo Koskinen, John Zimmerman, Thomas Binder, Johan Redstrom, & Stephan Wensveen
<i>Guerrilla UX Research Methods: Thrifty, Fast, and Effective User Experience Research Techniques</i>	Russ Unger & Todd Zaki Warfel
<i>Information Systems Transformation Architecture-Driven Modernization Case Studies</i>	William M. Ulrich and Philip H. Newcomb
<i>Kansei Engineering and Soft Computing</i>	Ying Dai, Basabi Chakraborty and Minghui Shi
<i>Patterns of Information Management</i>	Mandy Chessell and Harald Smith

<i>Sketching User Experiences: The Workbook</i>	Saul Greenberg, Sheelagh Carpendale, Nicolai Marquardt, & Bill Buxton
<i>Software Architecture in Practice, 3rd edition</i>	Len Bass, Paul Clements and Rick Kazman
<i>User Experience in the Age of Sustainability: A Practitioner's Blueprint</i>	Kem-Laurin Kramer
<i>Data</i>	
<i>Database Administration: The Complete Guide to DBA Practices and Procedures, 2nd Ed.</i>	Craig Mullins
<i>Database Design for Mere Mortals: A Hands-On Guide to Relational Database Design, 3rd Edition</i>	Michael J. Hernandez
<i>Next Generation Search Engines: Advanced Models for Information Retrieval</i>	Christophe Jouis, Ismail Biskri, Jean-Gabriel Ganascia and Magali Roux
<i>Test-Driven Database Development: Unlocking Agility</i>	Max Guernsey
<i>Using Open Source Platforms for Business Intelligence: Avoid Pitfalls and Maximize ROI</i>	Lyndsay Wise
<i>Working with Big Data LiveLessons (Video Training): Infrastructure, Algorithms, and Visualizations</i>	Paul Dix
<i>Programming, Tools, &amp; Web Development</i>	
<i>Core Java, Volume II -- Advanced Features, 9th Edition</i>	Cay Horstmann
<i>Creating an MP3 Player with HTML5</i>	Mark Lassoff
<i>Definitive XML Schema, 2nd edition</i>	Priscilla Walmsley
<i>Deploying Rails</i>	Tom Copeland and Anthony Burns
<i>Dreamweaver CS6: The Missing Manual</i>	David Sawyer McFarland
<i>Drupal 7 Explained: Your Step-by-Step Guide</i>	Stephen Burge
<i>FreeBSD Device Drivers: A Guide for the Intrepid</i>	Joseph Kong
<i>Introduction to Combinatorial Testing</i>	D. Richard Kuhn, Raghu N. Kacker, and Yu Lei
<i>Java Reflection LiveLessons (video training)</i>	Paul Anderson
<i>Joomla! Programming</i>	Mark Dexter and Louis Landry
<i>Joomla! Templates</i>	Angie Radtke

<i>Learning jQuery: A Hands-on Guide to Building Rich Interactive Web Front Ends</i>	Ralph Steyer	<i>Is Your Company Ready for Cloud?: Choosing the Best Cloud Adoption Strategy for Your Business</i>	Pamela Isom with Kerrie Holley
<i>Learning CSS3 Animations and Transitions: A Hands-on Guide to Animating in CSS3 with Transforms, Transitions, Keyframe Animations, and JavaScript</i>	Alexis Goldstein	<i>Migrating Legacy Applications: Challenges in Service Oriented Architecture and Cloud Computing Environments</i>	Anca Daniela Ionita, Marin Litoiu, and Grace Lewis
<i>Letting Go of the Words - Writing Web Content that Works 2nd Edition</i>	Janice (Ginny) Redish	<i>Open Source Cloud Computing Systems: Practices and Paradigms</i>	Luis M. Vaquero, Juan Cáceres, Juan J. Hierro
<i>MySQL, 5th edition</i>	Paul DuBois	<b>Management, Industry Affairs, and Enterprises</b>	
<i>Nagios: Building Enterprise-Grade Monitoring Infrastructures for Systems and Networks, 2nd edition</i>	David Josephsen	<i>Cases on ICT Utilization, Practice and Solutions: Tools for Managing Day-to-Day Issues</i>	edited by Mubarak S. Al-Mutairi et al.
<i>PayPal APIs: Up and Running, 2nd Edition</i>	Matthew Russell	<i>Competition, Strategy, and Modern Enterprise Information Systems</i>	Madjid Tavana
<i>Physical-Layer Security</i>	Mattieu Block and João Barros	<i>Content Strategy at Work: Real-world stories to strengthen every interactive project</i>	Margot Bloomstein
<i>Practical Object-Oriented Design in Ruby: An Agile Primer</i>	Sandi Metz	<i>Dynamic Models for Knowledge-Driven Organizations</i>	Murray E. Jennex
<i>Rails Recipes: Rails 3 Edition</i>	Chad Fowler	<i>Enterprise Software Delivery: Bringing Agility and Efficiency to the Global Software Supply Chain</i>	Alan Brown
<i>Sams Teach Yourself Node.js in 24 Hours: 24 Proven One-Hour Lessons</i>	George Ornbo	<i>Global UX: Design and Research in a Connected World</i>	Whitney Quesenbery and Daniel Szuc
<i>Scala Fundamentals LiveLessons (Video Training)</i>	Presented by Dan Rosen	<i>Intersection: How Enterprise Design Bridges the Gap between Business, Technology, and People</i>	Milan Guenther
<i>The CSS3 Anthology: Take your sites to New Heights</i>	Rachel Andrew	<i>Knowledge Driven Service Innovation and Management: IT Strategies for Business Alignment and Value Creation</i>	Eng K. Chew and Petter Gottschalk
<i>The Official Joomla! Book, 2nd Ed.</i>	Jennifer Marriott and Elin Waring	<i>Mobile Strategy: How Your Company Can Win by Embracing Mobile Technologies</i>	Dirk Nicol
<i>The Rails View: Create a Beautiful and Maintainable User Experience</i>	Bruce Williams and John Athayde	<b>Table 3: SEN books needing to be reviewed</b>	
<b>Operating Systems</b>			
<i>Inside Windows Debugging: A Practical Guide to Debugging and Tracing Strategies in Windows</i>	Tarik Soulami		
<i>Switching to the Mac: The Missing Manual, Lion Edition</i>	David Pogue		
<b>Mobility</b>			
<i>iPad: The Missing Manual, 4th Edition</i>	J.D. Biersdorfer		
<i>Next Generation Mobile Broadcasting</i>	Edited by David Gomez Barquero		
<b>Cloud Computing, SOA, and SaaS</b>			
<i>Cloud Computing Advancements in Design, Implementation, and Technologies</i>	Shadi Aljawarneh		
<i>Cloud Computing: Concepts, Technology &amp; Architecture</i>	Thomas Erl, Ricardo Puttini, Zaigham Mahmood		