Contents

Functional Programming

Probabilistic Functional Logic Programming ................................. 3
  Sandra Dylus, Jan Christiansen, and Finn Teegen

Rewriting High-Level Spreadsheet Structures into Higher-Order Functional Programs ................................................. 20
  Florian Biermann, Wensheng Dou, and Peter Sestoft

SNÅRLK: Somewhat Practical, Pretty Much Declarative
Verifiable Computing in Haskell ......................................................... 36
  Gordon Stewart, Samuel Merten, and Logan Leland

Hygienic Source-Code Generation Using Functors (Extended Abstract) . . . 53
  Karl Crary

Constraint Programming and Business Rules

Three Is a Crowd: SAT, SMT and CLP on a Chessboard ...................... 63
  Sebastian Krings, Michael Leuschel, Philipp Körner,
  Stefan Hallerstede, and Miran Hasanagić

An Automated Detection of Inconsistencies in SBVR-based Business Rules Using Many-sorted Logic ........................................... 80
  Kritika Anand, Pavan Kumar Chittimalli, and Ravindra Naik

Prolog and Optimizations

Exploiting Term Hiding to Reduce Run-Time Checking Overhead ........... 99
  Nataliia Stulova, José F. Morales, and Manuel V. Hermenegildo

On k-colored Lambda Terms and Their Skeletons ................................ 116
  Paul Tarau

Answer Set Programming

Optimizing Answer Set Computation via Heuristic-Based Decomposition ...... 135
  Francesco Calimeri, Davide Fuscà, Simona Perri, and Jessica Zangari

LoIIDE: A Web-Based IDE for Logic Programming Preliminary Report .......... 152
  Stefano Germano, Francesco Calimeri, and Eliana Palermiti
<table>
<thead>
<tr>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>A REST-Based Development Framework for ASP: Tools and Application</td>
<td>161</td>
</tr>
<tr>
<td>Gelsomina Catalano, Giovanni Laboccetta, Kristian Reale, Francesco Ricca, and Pierfrancesco Veltri</td>
<td></td>
</tr>
<tr>
<td>Navigating Online Semantic Resources for Entity Set Expansion.</td>
<td>170</td>
</tr>
<tr>
<td>Weronika T. Adrian and Marco Manna</td>
<td></td>
</tr>
<tr>
<td>Automatic Web Services Composition for Phylotastic</td>
<td>186</td>
</tr>
<tr>
<td>Thanh H. Nguyen, Tran Cao Son, and Enrico Pontelli</td>
<td></td>
</tr>
<tr>
<td><strong>Author Index</strong></td>
<td>203</td>
</tr>
</tbody>
</table>